

APPENDIX A - MOTOR/DRIVER SPECIFICATIONS

"MOTORS WITH RESOLVERS" TABLE A.1

"MOTORS WITH BRAKES" TABLE A.2

"MOTORS WITH ENCODERS" TABLE A.3

A.1 MOTORS WITH RESOLVERS

DELTA PACKAGE	MOTOR	DRIVE	MOTOR CODE	RATED POWER (WATTS)	RATED SPEED (RPM)	RATED TORQUE (N-M)
D30HRA	DBM-D30/30R	DXX-1.5/RA	1201	30	3000	0.095
D30HRB	DBM-D30/30R	DXX-1.5/RB	1201	30	3000	0.095
D50HRA	DBM-D50/30R	DXX-1.5/RA	1202	50	3000	0.159
D50HRB	DBM-D50/30R	DXX-1.5/RB	1202	50	3000	0.159
D100HRA	DBM-D100/30R	DXX-4.25/RA	1203	100	3000	0.318
D100HRB	DBM-D100/30R	DXX-4.25/RB	1203	100	3000	0.318
120HRA	DBM-120/30R	DXX-4.25/RA	1305	120	3000	0.38
120HRB	DBM-120/30R	DXX-4.25/RB	1305	120	3000	0.38
200HRA	DBM-200/30R	DXX-8.5/RA	1306	200	3000	0.64
200HRB	DBM-200/30R	DXX-8.5/RB	1306	200	3000	0.64
D200HRA	DBM-D200/30R	DXX-8.5/RA	1204	200	3000	0.64
D200HRB	DBM-D200/30R	DXX-8.5/RB	1204	200	3000	0.64
B380HRA	DBM-B380/30R	DXX-8.5/RA	1404	380	3000	1.24
B380HRA1X	DBM-B380/30R1X	DXX-8.5/RA	11	380	3000	1.24
400LRA	DBM-400/15R	DXX-8.5/RA	1105	400	1500	2.55
400HRA	DBM-400/30R	DXX-8.5/RA	1307	400	3000	1.27
D400HRA	DBM-D400/30R	DXX-8.5/RA	1205	400	3000	1.27
500HRA	DBM-500/30R	DXX-8.5/RA	1308	500	3000	1.59
D600HRA	DBM-D600/30R	DXX-17.5/RA	1206	600	3000	1.91
B630HRA	DBM-B630/30R	DXX-8.5/RA	1405	630	3000	2.03
B630HRA1X	DBM-B630/30R1X	DXX-8.5/RA	12	630	3000	2.03
800LRA	DBM-800/15R	DXX-17.5/RA	1106	800	1500	5.10
800HRA	DBM-800/30R	DXX-17.5/RA	1309	800	3000	2.55
800HRAA	DBM-800/30RA	DXX-17.5/RAA	1309	800	3000	2.55
B800HRA	DBM-B800/30R	DXX-17.5/RA	1406	800	3000	2.60
D800HRA	DBM-D800/30R	DXX-17.5/RA	1207	800	3000	2.55
1000LRA	DBM-1000/15R	DXX-17.5/RA	1107	1000	1500	6.37
1000HRA	DBM-1400/30R	DXX-17.5/RA	1310	1000	3000	3.10
1050LRA1X	DBM-1500/15R1X	DXX-17.5/RA	10	1000	1500	6.37
B1060HRA	DBM-B1060/30R	DXX-17.5/RA	1407	1060	3000	3.39
1360HRA	DBM-1360/30R	DXX-17.5/RA	007	1360	3000	4.34
1400HRA	DBM-1400/30R	DXX-35/RA	1311	1400	3000	4.46
1500LRA	DBM-1500/15R	DXX-35/RA	1109	1500	1500	9.55
1500LRA1X	DBM-1500/15R1X	DXX-35/RA	10	1500	1500	9.55
B1600HRA	DBM-B1600/30R	DXX-35/RA	1408	1600	3000	5.08
1800HRA	DBM-1800/30R	DXX-35/RA	1312	1800	3000	5.73
B1900HRA	DBM-B1900/30R	DXX-35/RA	1409	1900	3000	6.21
2200LRA	DBM-2600/15R	DXX-35/RA	1110	2200	1500	14.08
2399HRA	DBM-2400/30R	DXX-35/RA	1313	2399	3000	7.64

A.1 MOTORS WITH RESOLVERS (cont'd)

DELTA PACKAGE	MOTOR	DRIVE	MOTOR CODE	RATED POWER (WATTS)	RATED SPEED (RPM)	RATED TORQUE (N-M)
2400HRA	DBM-2400/30R	DXX-50/RA	1314	2400	3000	7.64
2600LRA	DBM-2600/15R	DXX-50/RA	1111	2600	1500	16.60
2860MRA1X	DBM-3740/20R1X	DXX-35/RA	20	2860	2000	13.72
3300LRA	DBM-3700/15R	DXX-50/RA	1112	3000	1500	21.00
B3000HRA	DBM-B3000/30R	DXX-50/RA	1410	3000	3000	9.83
3400HRA	DBM-3700/30R	DXX-50/RA	1315	3400	3000	10.80
3700LRA	DBM-3700/15R	DXX-70/RA	1113	3700	1500	23.60
3700HRA	DBM-3700/30R	DXX-70/RA	1316	3700	3000	11.80
3740MRA1X	DBM-3740/20R1X	DXX-50/RA	21	3740	2000	17.94
B3950MRA	DBM-B3950/20R	DXX-50/RA	35	3950	2000	19.00
4200MRA1X	DBM-4200/20R	DXX-50/RA	49	4200	2000	20.20
B4400HRA	DBM-B4400/30R	DXX-70/RA	1412	4400	3000	14.36
5000LRA	DBM-5000/15R	DXX-115/RA	1115	5000	1500	31.80
5000HRA	DBM-5500/30R	DXX-70/RA	1317	5000	3000	15.90
5500HRA	DBM-5500/30R	DXX-115/RA	1318	5500	3000	17.50
B5600HRA	DBM-B5600/30R	DXX-115/RA	1413	5600	3000	18.04
6100CRA	DBM-6100/10R	DXX-50/RA	38	6100	1000	40.19
6500HRA	DBM-6500/30R	DXX-115/RA	1319	6500	3000	20.70
7500MRA	DBM-7500/20R	DXX-115/RA	1116	7500	2000	35.80
8600MRA	DBM-8600/22R	DXX-115/RA	002 & 004	8600	2200	37.25
10000MRA	DBM-10000/20R	DXX-115/RA	1117	10000	2000	47.70
10300LRA	DBM-10300/15R	DXX-115/RA	008	10300	1500	65.86
13500LRA	DBM-13500/15R	DXX-115/RA	30	13500	1500	86.77
14300CRA	DBM-14300/13R	DXX-115/RA	009	14300	1300	105.75

A.2 MOTORS WITH MECHANICAL BRAKES

DELTA PACKAGE	MOTOR	DRIVE	MOTOR CODE	RATED POWER (WATTS)	RATED SPEED (RPM)	RATED TORQUE (N-M)
120HRAB	DBM-120/30RB	DXX-4.25/RA	1305	120	3000	0.38
120HRBB	DBM-120/30RB	DXX-4.25/RB	1305	120	3000	0.38
200HRAB	DBM-200/30RB	DXX-8.5/RA	1306	200	3000	0.64
200HRBB	DBM-200/30RB	DXX-8.5/RB	1306	200	3000	0.64
400LRAB	DBM-400/15RB	DXX-8.5/RA	1105	400	1500	2.55
400HRAB	DBM-400/30RB	DXX-8.5/RA	1307	400	3000	1.27
500HRAB	DBM-500/30RB	DXX-8.5/RA	1308	500	3000	1.59
800LRAB	DBM-800/15RB	DXX-17.5/RA	1106	800	1500	5.10
800HRAB	DBM-800/30RB	DXX-17.5/RA	1309	800	3000	2.55
D800HEAAB	DBM-D800/30EAB	DXX-17.5/EAA	1701	800	3000	2.60
D800HRAB	DBM-D800/30RB	DXX-17.5/RA	1207	800	3000	2.55
1000LRAB	DBM-1000/15RB	DXX-17.5/RA	1107	1000	1500	6.37
1000HRAB	DBM-1400/30RB	DXX-17.5/RA	1310	1000	3000	3.10
1400HRAB	DBM-1400/30RB	DXX-35/RA	1311	1400	3000	4.46
1500LRAB	DBM-1500/15RB	DXX-35/RA	1109	1500	1500	9.55
1800HRAB	DBM-1800/30RB	DXX-35/RA	1312	1800	3000	5.73
1800HRAAB	DBM-1800/30RAB	DXX-35/RAA	1702	1800	3000	5.73
2200LRAB	DBM-2600/15RB	DXX-35/RA	1110	2200	1500	14.08
2400HRAB	DBM-2400/30RB	DXX-50/RA	1314	2400	3000	7.64
2600LRAB	DBM-2600/15RB	DXX-50/RA	1111	2600	1500	16.60
3300LRAB	DBM-3700/15RB	DXX-50/RA	1112	3000	1500	21.00
B3000HRAB	DBM-B3000/30RB	DXX-50/RA	1410	3000	3000	9.83
3400HRAB	DBM-3700/30RB	DXX-50/RA	1315	3400	3000	10.80
3700LRAB	DBM-3700/15RB	DXX-70/RA	1113	3700	1500	23.60
3700HRAB	DBM-3700/30RB	DXX-70/RA	1316	3700	3000	11.80
5000LRAB	DBM-5000/15RB	DXX-115/RA	1115	5000	1500	31.80
5000HRAB	DBM-5500/30RB	DXX-70/RA	1317	5000	3000	15.90
5500HRAB	DBM-5500/30RB	DXX-115/RA	1318	5500	3000	17.50
6500HRAB	DBM-6500/30RB	DXX-115/RA	1319	6500	3000	20.70
7500MRAB	DBM-7500/20RB	DXX-115/RA	1116	7500	2000	35.80
10000MRAB	DBM-10000/20RB	DXX-115/RA	1117	10000	2000	47.70

A.3 MOTORS WITH ENCODERS

DELTA PACKAGE	MOTOR	DRIVE	MOTOR CODE	RATED POWER (WATTS)	RATED SPEED (RPM)	RATED TORQUE (N-M)
B380HEA	DBM-B380/30E	DXX-8.5/EA	804	380	3000	1.24
85E400MEA	DBM85-E400/20E	DXX-8.5/EA	1020	400	2000	1.90
480LEA	DBM-480/15E	DXX-8.5/EA	01	480	1500	3.11
120E500LEA	DBM120-E1000H/20E	DXX-8.5/EA	1041	500	1000	5.10
85E525HEA	DBM85-E525/30E	DXX-8.5/EA	1012	525	3000	1.70
B630HEA	DBM-B630/30E	DXX-8.5/EA	805	630	3000	2.03
85E650MEA	DBM85-E750/20E	DXX-8.5/EA	1021	650	2000	3.00
C740LEA	DBM-C740/15E	DXX-8.5/EA	107	740	1500	4.77
85E750MEA	DBM85-E750/20E	DXX-17.5/EA	1022	750	2000	3.53
120E750LEA	DBM120-E1500H/20E	DXX-17.5/EA	1042	750	1000	7.90
120E750MEA	DBM120-E750/20E	DXX-8.5/EA	1030	750	2000	3.15
B800HEA	DBM-B800/30E	DXX-17.5/EA	806	800	3000	2.60
85E850HEA	DBM85-E850/30E	DXX-17.5/EA	1014	850	3000	2.75
85E1000MEA	DBM85-E1000/20E	DXX-17.5/EA	1023	1000	2000	4.80
120E1000MEA	DBM120-E1000/20E	DXX-17.5/EA	1031	1000	2000	5.30
B1060HEA	DBM-B1060/30E	DXX-17.5/EA	807	1060	3000	3.39
120E1100LEA	DBM120-E2200H/20E	DXX-35/EA	1043	1100	1000	11.50
85E1200HEA	DBM85-E1200/30E	DXX-17.5/EA	1015	1200	3000	3.90
120E1500LEA	DBM120-E3000H/20E	DXX-35/EA	1044	1500	1000	16.00
120E1500MEA	DBM120-E1500/20E	DXX-35/EA	1032	1500	2000	7.15
B1600HEA	DBM-B1600/30E	DXX-35/EA	808	1600	3000	5.08
B1900HEA	DBM-B1900/30E	DXX-35/EA	809	1900	3000	6.21
120E2000LEA	DBM120-E4000H/20E	DXX-35/EA	1045	2000	1000	20.50
120E2200MEA	DBM120-E2200/20E	DXX-35/EA	1033	2200	2000	10.70
B3000HEA	DBM-B3000/30E	DXX-50/EA	810	3000	3000	9.83
120E3000MEA	DBM120-E3000/20E	DXX-50/EA	1034	3000	2000	14.70
120E4000MEA	DBM120-E4000/20E	DXX-50/EA	1035	4000	2000	19.60
B4400HEA	DBM-B4400/30E	DXX-70/EA	812	4400	3000	14.36
B5600HEA	DBM-B5600/30E	DXX-115/EA	813	5600	3000	18.04

A.4 MOTOR/DRIVER SPEED TORQUE CURVES

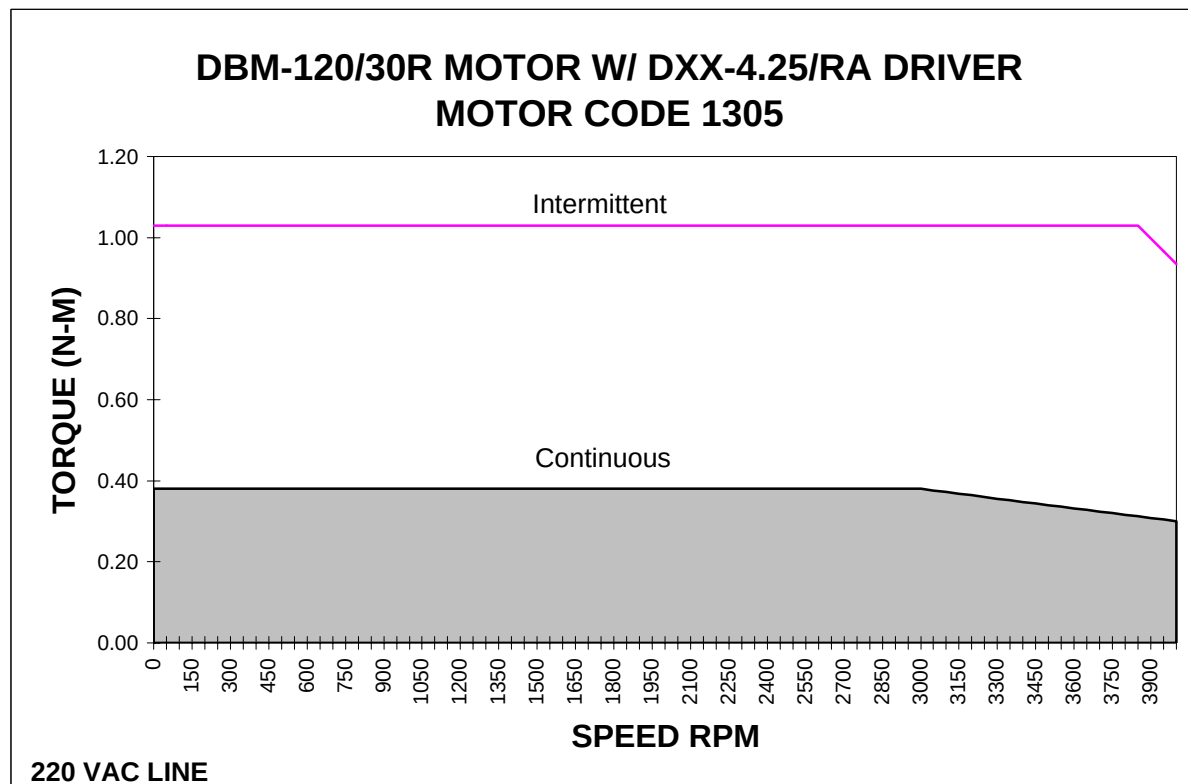
<u>DRAWING NUMBER</u>	<u>DESCRIPTION</u>
120HRA	Delta Package
120HRB	Delta Package
200HRA	Delta Package
200HRB	Delta Package
400LRA	Delta Package
400HRA	Delta Package
480LEA	Delta Package
500HRA	Delta Package
800LRA	Delta Package
800HRA	Delta Package
1000LRA	Delta Package
1000HRA	Delta Package
1050LRA1X	Delta Package
1360HRA	Delta Package
1400HRA	Delta Package
1500LRA	Delta Package
1500LRA1X	Delta Package
1800HRA	Delta Package
2200LRA	Delta Package
2399HRA	Delta Package
2400HRA	Delta Package
2600LRA	Delta Package
2860MRA1X	Delta Package
3300LRA	Delta Package
3400HRA	Delta Package
3700LRA	Delta Package
3700HRA	Delta Package
3740MRA1X	Delta Package
4200MRA1X	Delta Package
5000LRA	Delta Package
5000HRA	Delta Package
5500HRA	Delta Package
6100CRA	Delta Package
6500HRA	Delta Package
7500MRA	Delta Package
8600MRA	Delta Package
10000MRA	Delta Package
10300LRA	Delta Package
13500LRA	Delta Package
14300CRA	Delta Package
B380HEA	Delta Package
B380HRA	Delta Package
B380HRA1X	Delta Package
B630HEA	Delta Package
B630HRA	Delta Package
B630HRA1X	Delta Package
B800HEA	Delta Package
B800HRA	Delta Package
B1060HEA	Delta Package
B1060HRA	Delta Package
B1600HEA	Delta Package
B1600HRA	Delta Package

A.4 MOTOR/DRIVER SPEED TORQUE CURVES (cont'd)

<u>DRAWING NUMBER</u>	<u>DESCRIPTION</u>
B1900HEA	Delta Package
B1900HRA	Delta Package
B3000HEA	Delta Package
B3000HRA	Delta Package
B3950MRA	Delta Package
B4400HEA	Delta Package
B4400HRA	Delta Package
B5600HEA	Delta Package
B5600HRA	Delta Package
C740LEA	Delta Package
D30HRA	Delta Package
D30HRB	Delta Package
D50HRA	Delta Package
D50HRB	Delta Package
D100HRA	Delta Package
D100HRB	Delta Package
D200HRA	Delta Package
D200HRB	Delta Package
D400HRA	Delta Package
D600HRA	Delta Package
D800HRA	Delta Package
85E400MEA	Delta Package
85E525HEA	Delta Package
85E650MEA	Delta Package
85E750MEA	Delta Package
85E850HEA	Delta Package
85E1000MEA	Delta Package
85E1200HEA	Delta Package
120E500LEA	Delta Package
120E750LEA	Delta Package
120E750MEA	Delta Package
120E1000MEA	Delta Package
120E1100LEA	Delta Package
120E1500LEA	Delta Package
120E1500MEA	Delta Package
120E2000LEA	Delta Package
120E2200MEA	Delta Package
120E3000MEA	Delta Package
120E4000MEA	Delta Package

POWER OUTPUT	WATTS	120
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	0.38
	LB-IN	3.36
	LB-FT	0.28
PEAK TORQUE	N-M	1.03
	LB-IN	9.12
	LB-FT	0.76
ROTOR INERTIA	KG-CM^2	0.103
	LB-IN-SEC^2	0.000091
	LB-FT-SEC^2	0.0000076
MOTOR WEIGHT	KG	1.0
	LBS	2.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.070
	LB-IN-SEC^2	0.000062
	LB-FT-SEC^2	0.0000052

*Specifications subject to change without notice

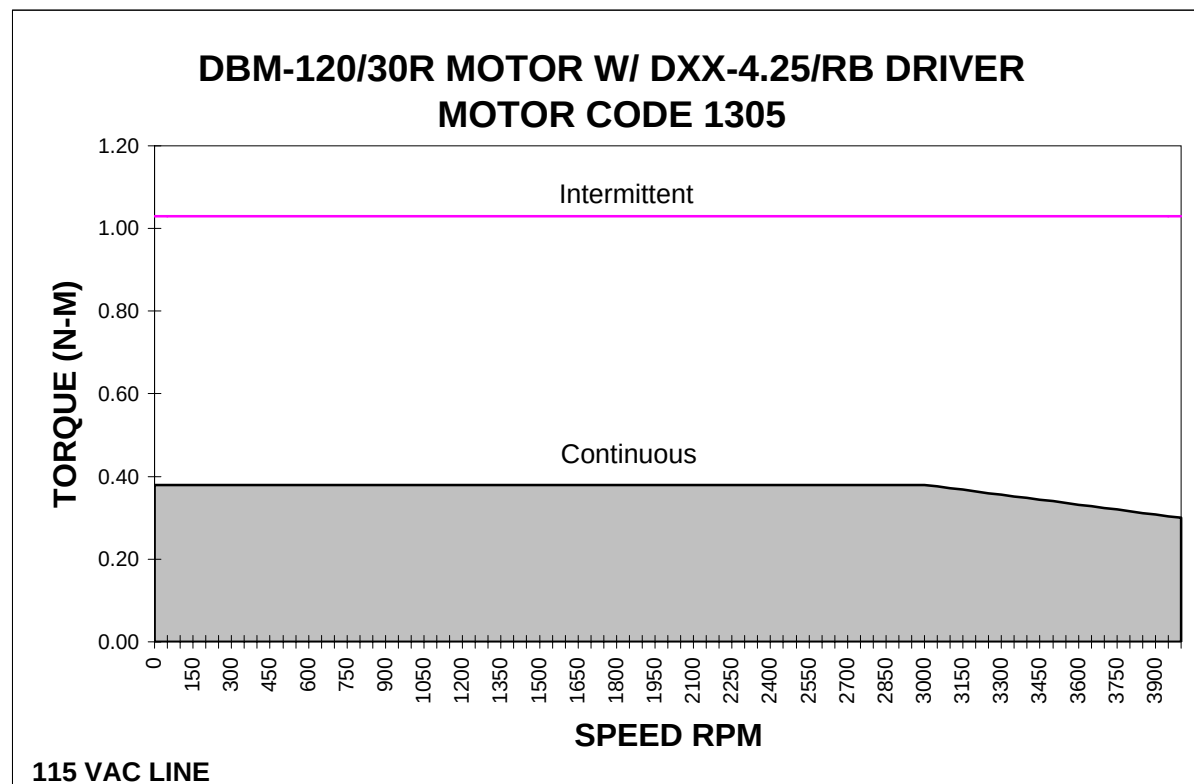


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120HRA

6/1/03

POWER OUTPUT	WATTS	120
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	0.38
	LB-IN	3.36
	LB-FT	0.28
PEAK TORQUE	N-M	1.03
	LB-IN	9.12
	LB-FT	0.76
ROTOR INERTIA	KG-CM^2	0.103
	LB-IN-SEC^2	0.000091
	LB-FT-SEC^2	0.0000076
MOTOR WEIGHT	KG	1.0
	LBS	2.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.070
	LB-IN-SEC^2	0.000062
	LB-FT-SEC^2	0.0000052

*Specifications subject to change without notice

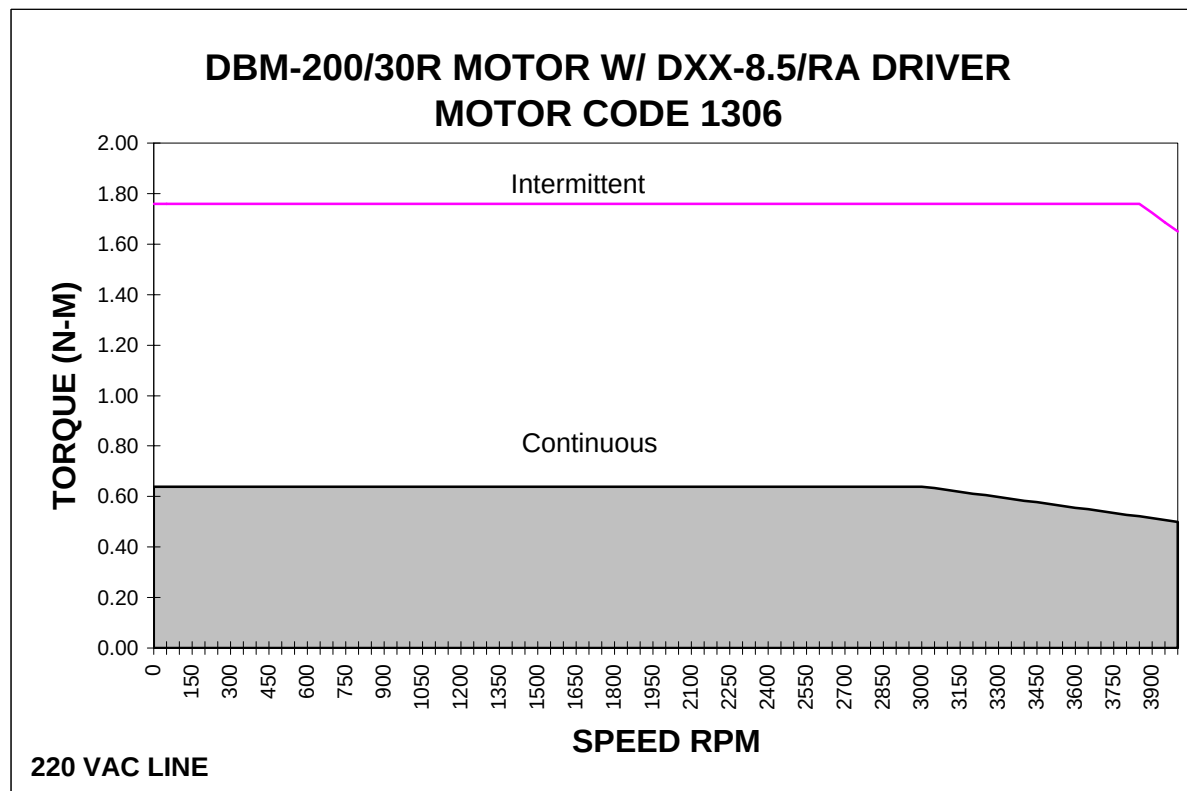


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120HRB

6/1/03

POWER OUTPUT	WATTS	200
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	0.64
	LB-IN	5.66
	LB-FT	0.47
PEAK TORQUE	N-M	1.76
	LB-IN	15.58
	LB-FT	1.30
ROTOR INERTIA	KG-CM^2	0.148
	LB-IN-SEC^2	0.000131
	LB-FT-SEC^2	0.0000109
MOTOR WEIGHT	KG	1.3
	LBS	2.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.070
	LB-IN-SEC^2	0.000062
	LB-FT-SEC^2	0.0000052

*Specifications subject to change without notice

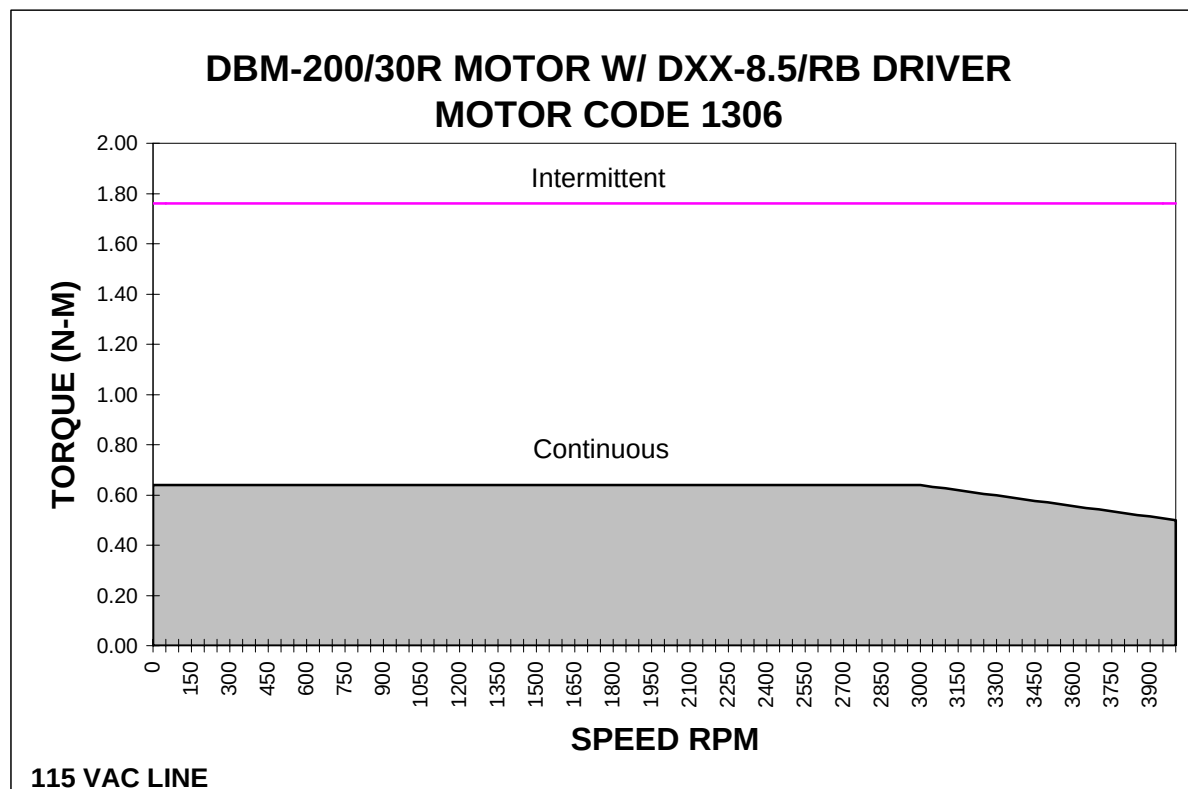


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
200HRA

6/1/03

POWER OUTPUT	WATTS	200
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	0.64
	LB-IN	5.66
	LB-FT	0.47
PEAK TORQUE	N-M	1.76
	LB-IN	15.58
	LB-FT	1.30
ROTOR INERTIA	KG-CM^2	0.148
	LB-IN-SEC^2	0.000131
	LB-FT-SEC^2	0.0000109
MOTOR WEIGHT	KG	1.3
	LBS	2.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.070
	LB-IN-SEC^2	0.000062
	LB-FT-SEC^2	0.0000052

*Specifications subject to change without notice

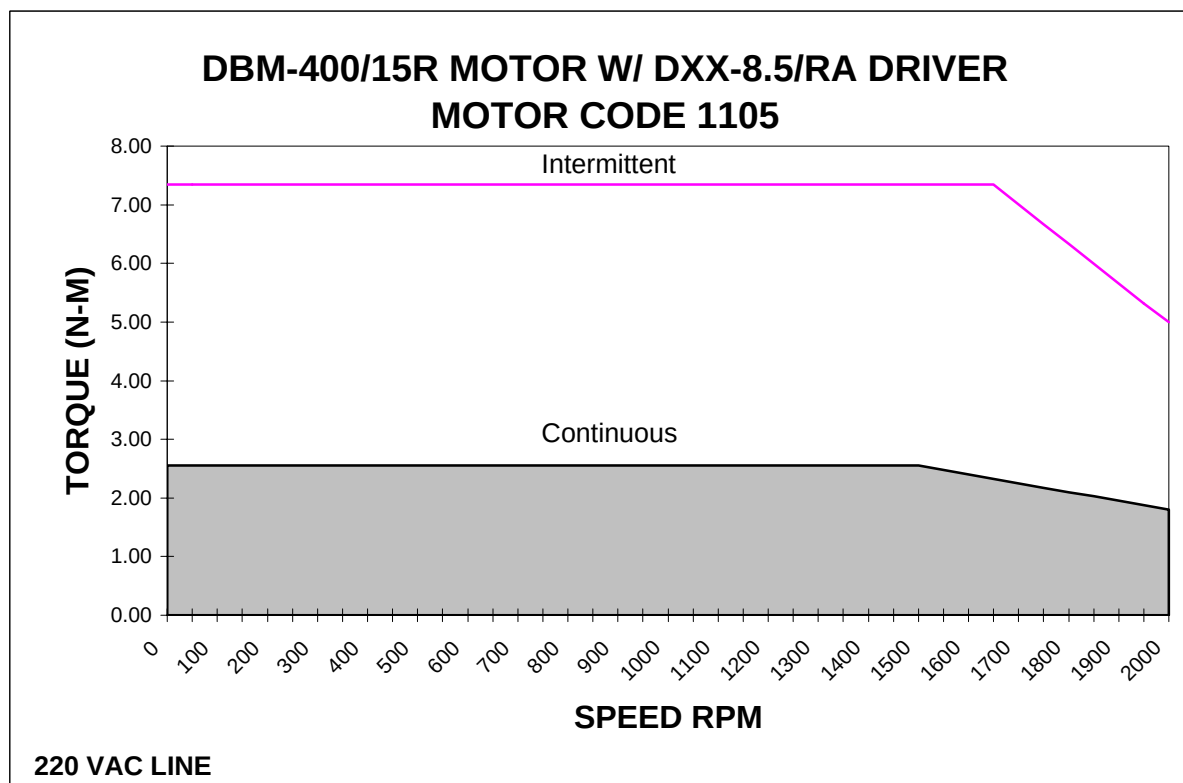


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
200HRB

6/1/03

POWER OUTPUT	WATTS	400
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	2.55
	LB-IN	22.57
	LB-FT	1.88
PEAK TORQUE	N-M	7.35
	LB-IN	65.05
	LB-FT	5.42
ROTOR INERTIA	KG-CM^2	0.760
	LB-IN-SEC^2	0.000673
	LB-FT-SEC^2	0.0000561
MOTOR WEIGHT	KG	4.5
	LBS	9.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.190
	LB-IN-SEC^2	0.000168
	LB-FT-SEC^2	0.0000140

*Specifications subject to change without notice

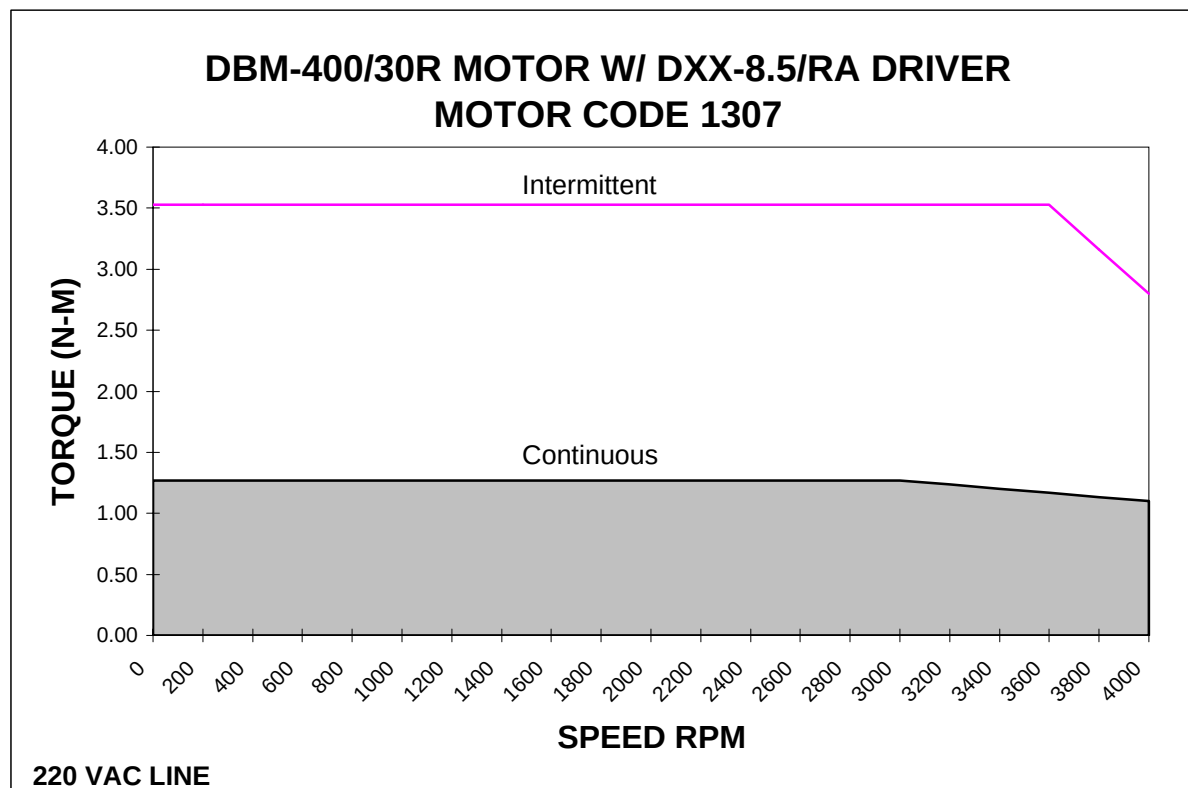


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
400LRA

6/1/03

POWER OUTPUT	WATTS	400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	1.27
	LB-IN	11.24
	LB-FT	0.94
PEAK TORQUE	N-M	3.53
	LB-IN	31.24
	LB-FT	2.60
ROTOR INERTIA	KG-CM^2	0.233
	LB-IN-SEC^2	0.000206
	LB-FT-SEC^2	0.0000172
MOTOR WEIGHT	KG	1.9
	LBS	4.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.070
	LB-IN-SEC^2	0.000062
	LB-FT-SEC^2	0.0000052

*Specifications subject to change without notice

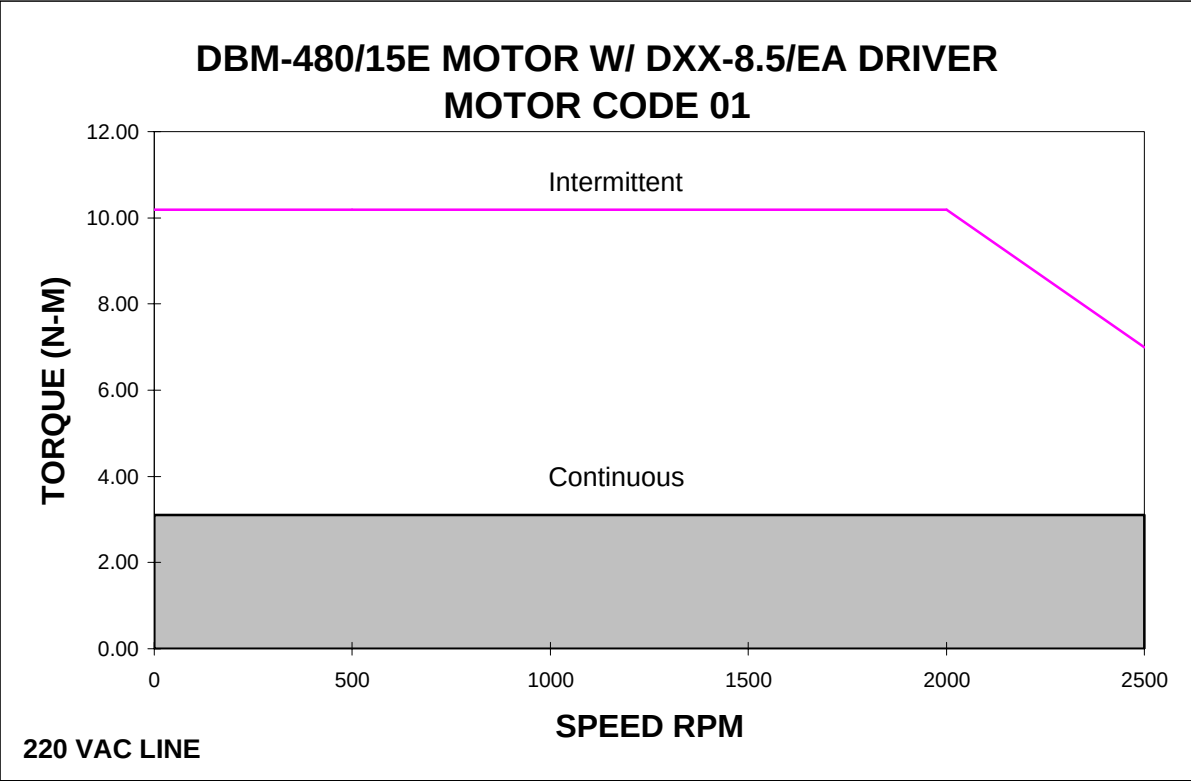


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
400HRA

6/1/03

POWER OUTPUT	WATTS	480
RATED SPEED	RPM	1500
MAX SPEED	RPM	2500
RATED TORQUE	N-M	3.11
	LB-IN	27.53
	LB-FT	2.29
PEAK TORQUE	N-M	10.19
	LB-IN	90.19
	LB-FT	7.52
ROTOR INERTIA	KG-CM^2	1.400
	LB-IN-SEC^2	0.001239
	LB-FT-SEC^2	0.0001033
MOTOR WEIGHT	KG	5.4
	LBS	11.9
1024 ENCODER	PPR	4096
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

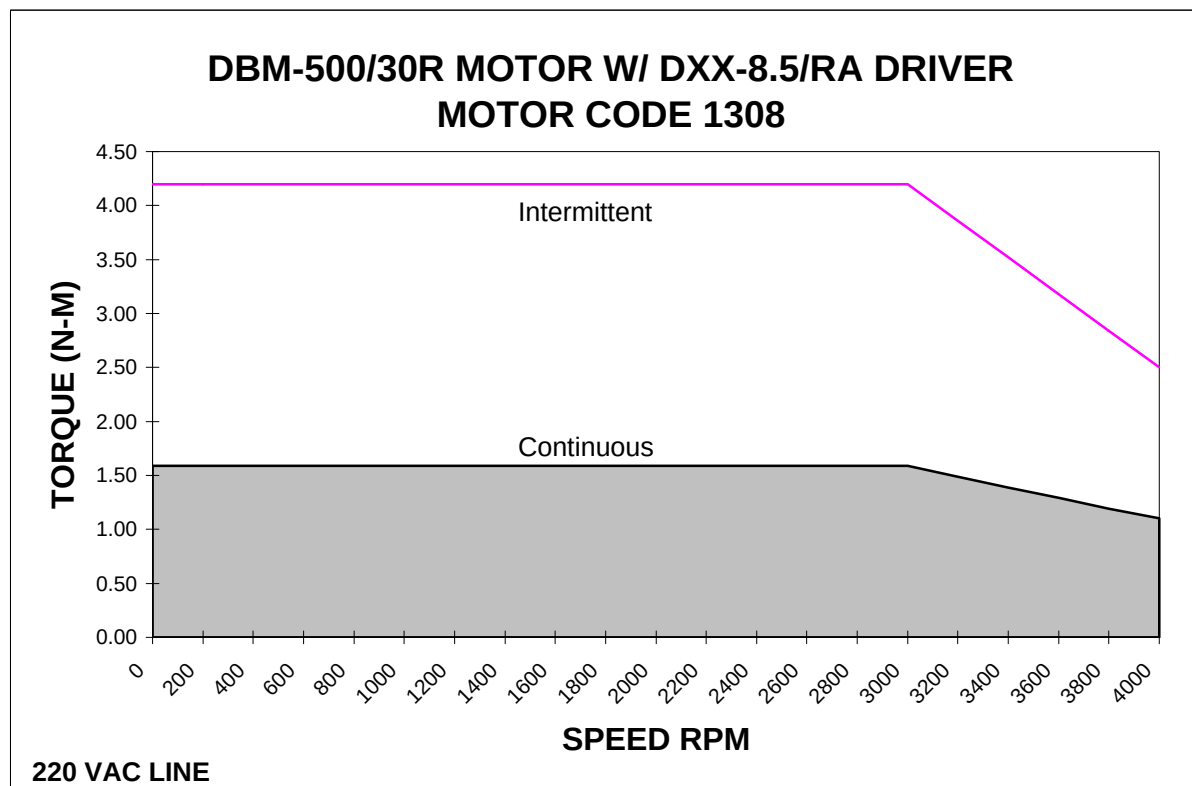
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
480LEA

POWER OUTPUT	WATTS	500
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	1.59
	LB-IN	14.07
	LB-FT	1.17
PEAK TORQUE	N-M	4.20
	LB-IN	37.17
	LB-FT	3.10
ROTOR INERTIA	KG-CM^2	0.470
	LB-IN-SEC^2	0.000416
	LB-FT-SEC^2	0.0000347
MOTOR WEIGHT	KG	3.2
	LBS	7.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.190
	LB-IN-SEC^2	0.000168
	LB-FT-SEC^2	0.0000140

*Specifications subject to change without notice

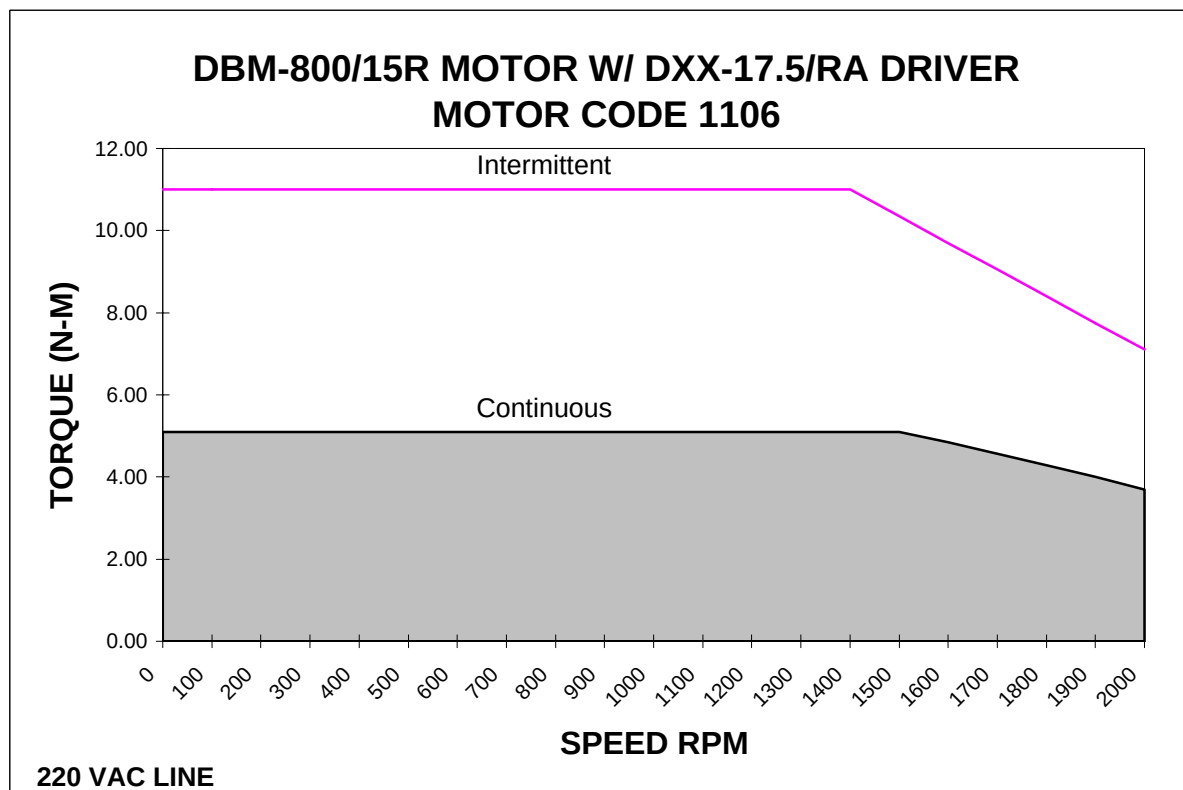


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
500HRA

6/1/03

POWER OUTPUT	WATTS	800
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	5.10
	LB-IN	45.14
	LB-FT	3.76
PEAK TORQUE	N-M	11.00
	LB-IN	97.36
	LB-FT	8.11
ROTOR INERTIA	KG-CM^2	1.890
	LB-IN-SEC^2	0.001673
	LB-FT-SEC^2	0.0001394
MOTOR WEIGHT	KG	6.2
	LBS	13.7
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

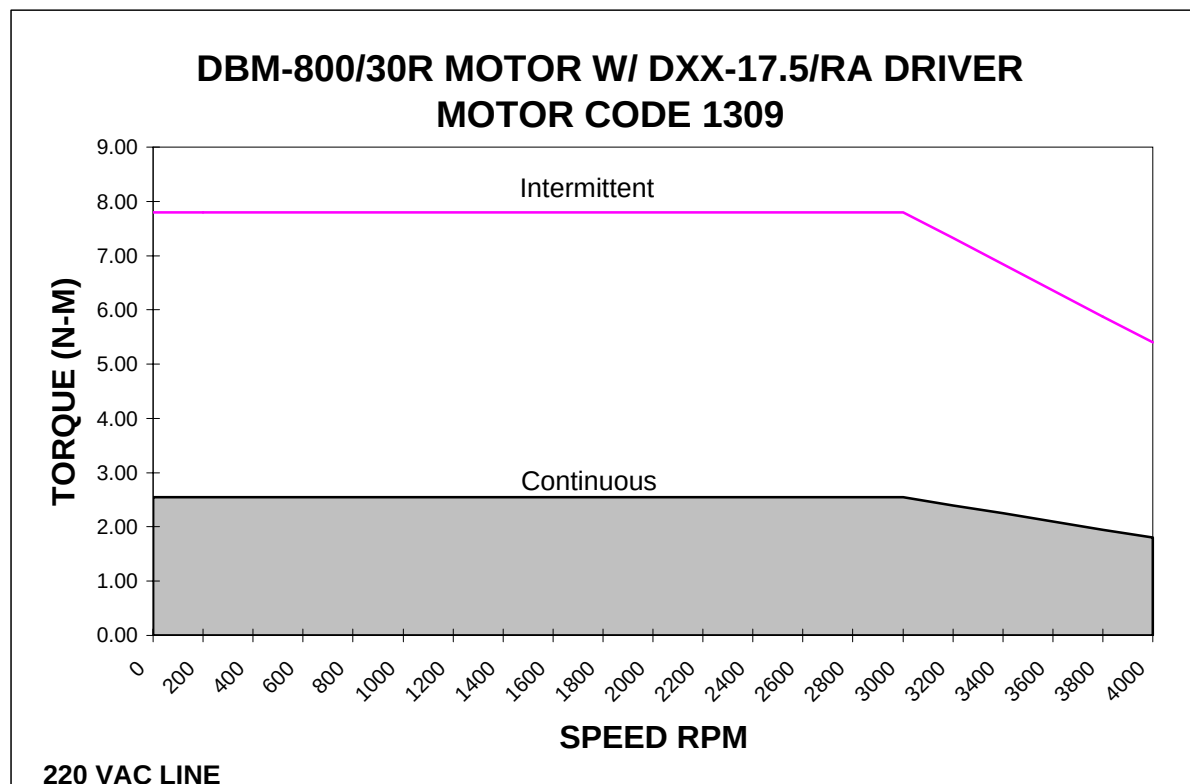


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
800LRA

6/1/03

POWER OUTPUT	WATTS	800
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.55
	LB-IN	22.57
	LB-FT	1.88
PEAK TORQUE	N-M	7.80
	LB-IN	69.04
	LB-FT	5.75
ROTOR INERTIA	KG-CM^2	0.760
	LB-IN-SEC^2	0.000673
	LB-FT-SEC^2	0.0000561
MOTOR WEIGHT	KG	4.5
	LBS	9.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.190
	LB-IN-SEC^2	0.000168
	LB-FT-SEC^2	0.0000140

*Specifications subject to change without notice

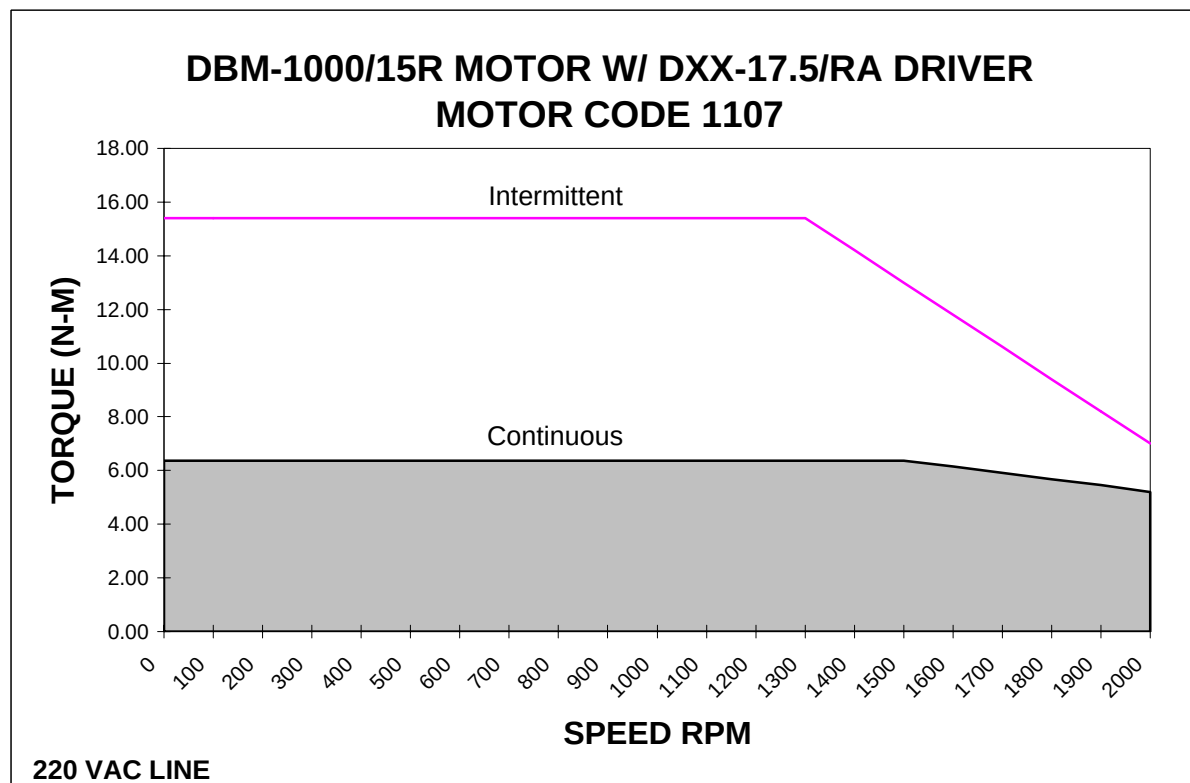


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
800HRA

6/1/03

POWER OUTPUT	WATTS	1000
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	6.37
	LB-IN	56.38
	LB-FT	4.70
PEAK TORQUE	N-M	15.40
	LB-IN	136.30
	LB-FT	11.36
ROTOR INERTIA	KG-CM^2	2.570
	LB-IN-SEC^2	0.002275
	LB-FT-SEC^2	0.0001896
MOTOR WEIGHT	KG	7.8
	LBS	17.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

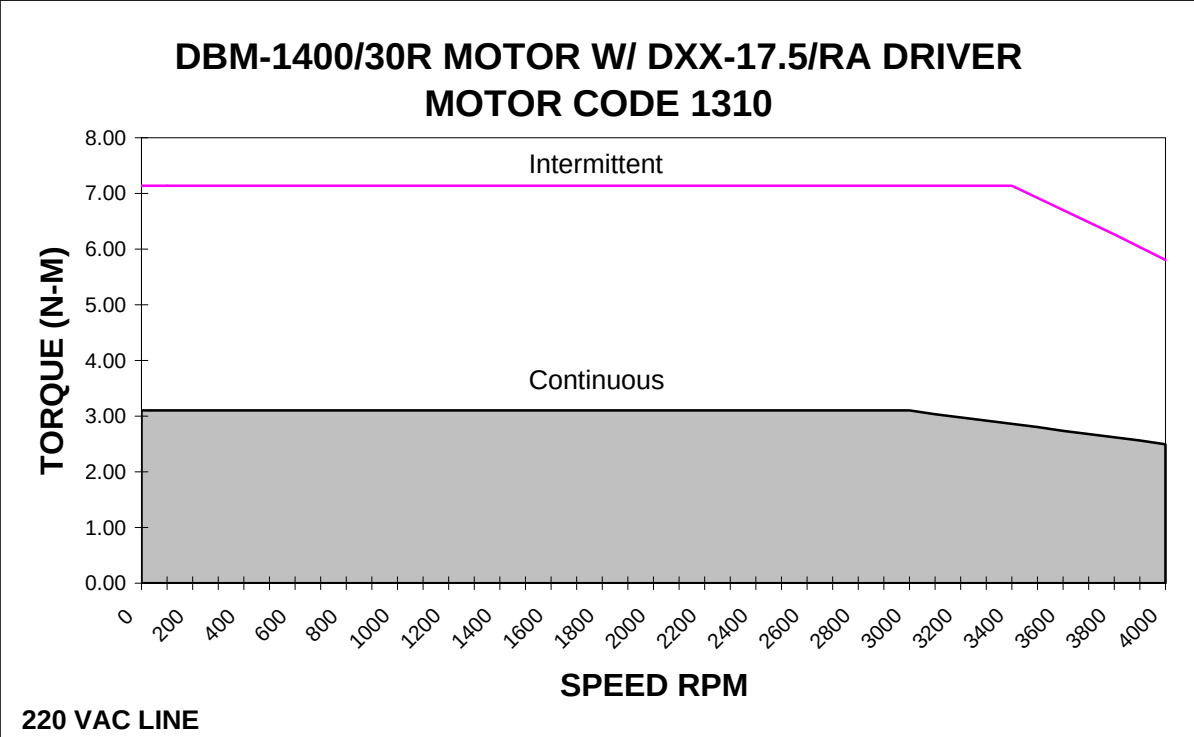


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1000LRA

6/1/03

POWER OUTPUT	WATTS	1000
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	3.10
	LB-IN	27.44
	LB-FT	2.29
PEAK TORQUE	N-M	7.14
	LB-IN	63.19
	LB-FT	5.27
ROTOR INERTIA	KG-CM^2	1.890
	LB-IN-SEC^2	0.001673
	LB-FT-SEC^2	0.0001394
MOTOR WEIGHT	KG	6.2
	LBS	13.7
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

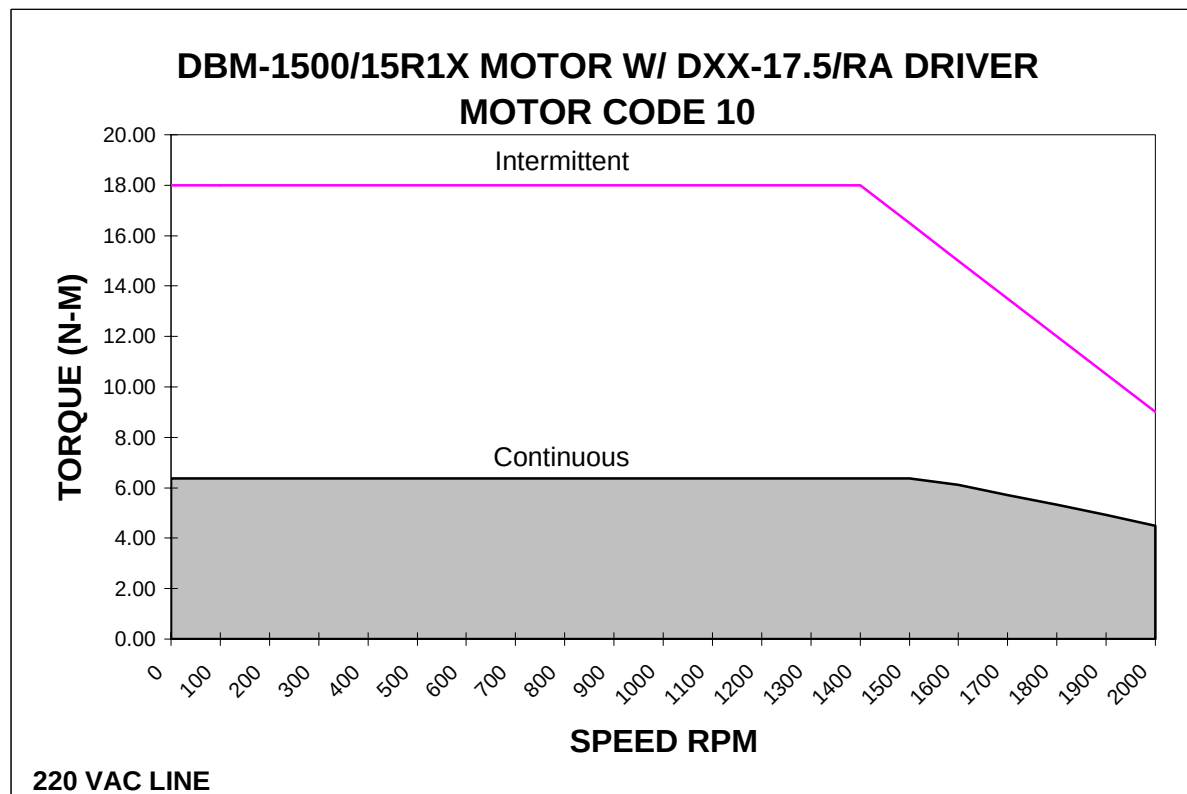
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1000HRA

POWER OUTPUT	WATTS	1000
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	6.37
	LB-IN	56.38
	LB-FT	4.70
PEAK TORQUE	N-M	18.00
	LB-IN	159.31
	LB-FT	13.28
ROTOR INERTIA	KG-CM^2	4.1
	LB-IN-SEC^2	0.003629
	LB-FT-SEC^2	0.0003024
MOTOR WEIGHT	KG	10.9
	LBS	24.0
RESOLVER	PPR	12000
RESOLVER TYPE	BRCT	1X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

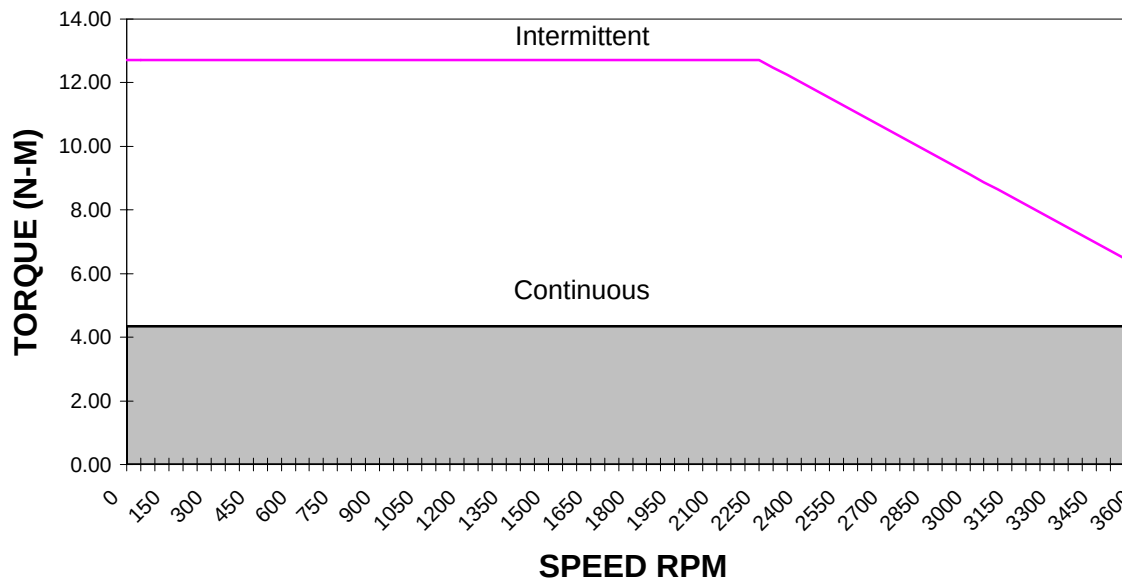


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1050LRA1X

6/1/03

POWER OUTPUT	WATTS	1360
RATED SPEED	RPM	3000
MAX SPEED	RPM	3600
RATED TORQUE	N-M	4.34
	LB-IN	38.41
	LB-FT	3.20
PEAK TORQUE	N-M	12.72
	LB-IN	112.58
	LB-FT	9.38
ROTOR INERTIA	KG-CM^2	11.430
	LB-IN-SEC^2	0.010116
	LB-FT-SEC^2	0.0008430
MOTOR WEIGHT	KG	7.3
	LBS	16.1
2X RESOLVER	PPR	24000
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.025
	LB-IN-SEC^2	0.000022
	LB-FT-SEC^2	0.0000018

DBM-1360/30R MOTOR W/ DXX-17.5/RA DRIVER MOTOR CODE 007



220 VAC LINE

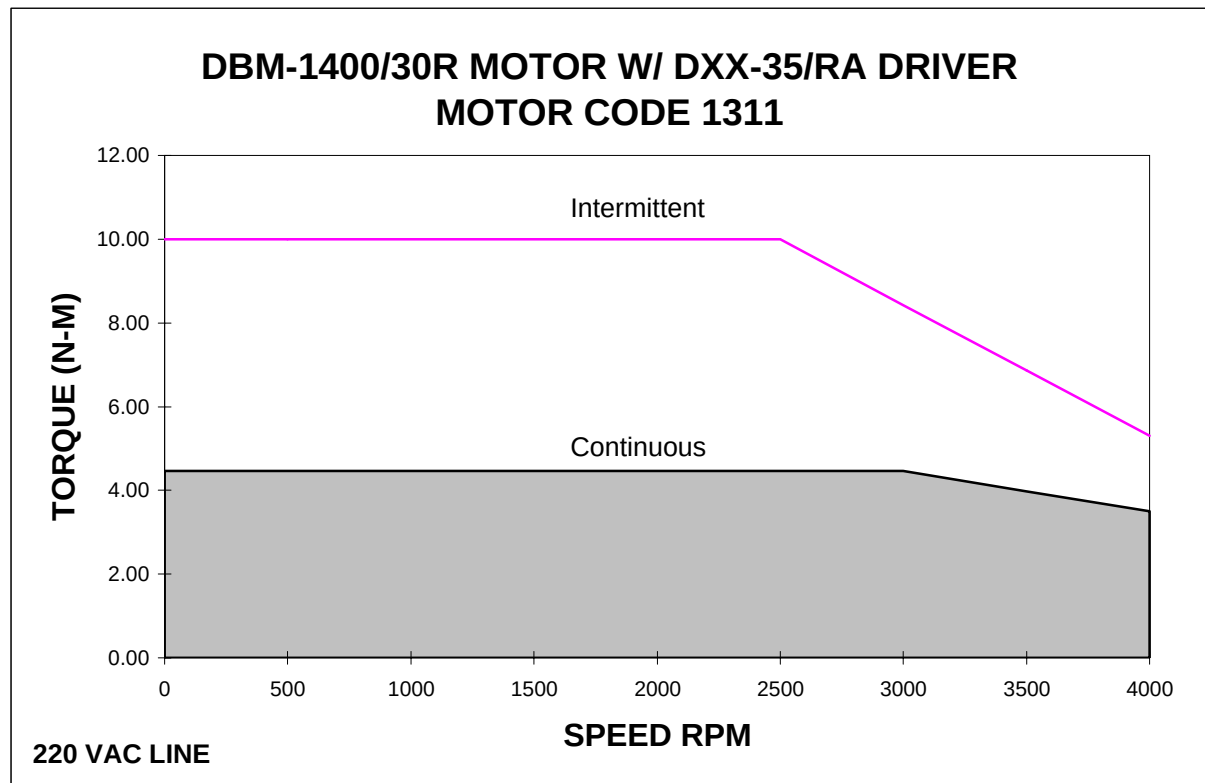
*Specifications subject to change without notice

**INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1360HRA**

6/1/03

POWER OUTPUT	WATTS	1400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	4.46
	LB-IN	39.47
	LB-FT	3.29
PEAK TORQUE	N-M	10.00
	LB-IN	88.51
	LB-FT	7.38
ROTOR INERTIA	KG-CM^2	1.890
	LB-IN-SEC^2	0.001673
	LB-FT-SEC^2	0.0001394
MOTOR WEIGHT	KG	6.2
	LBS	13.7
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

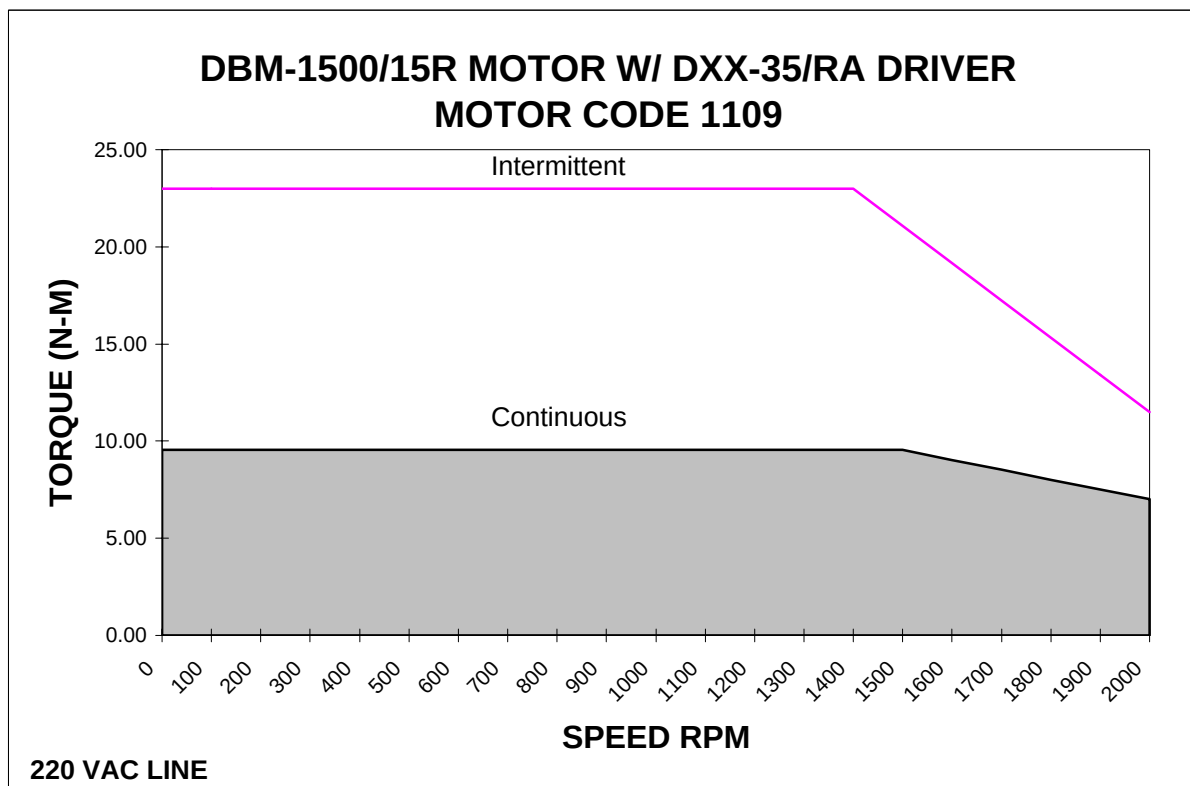


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1400HRA

6/1/03

POWER OUTPUT	WATTS	1500
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	9.55
	LB-IN	84.52
	LB-FT	7.04
PEAK TORQUE	N-M	23.00
	LB-IN	203.57
	LB-FT	16.96
ROTOR INERTIA	KG-CM^2	4.100
	LB-IN-SEC^2	0.003629
	LB-FT-SEC^2	0.0003024
MOTOR WEIGHT	KG	10.9
	LBS	24.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

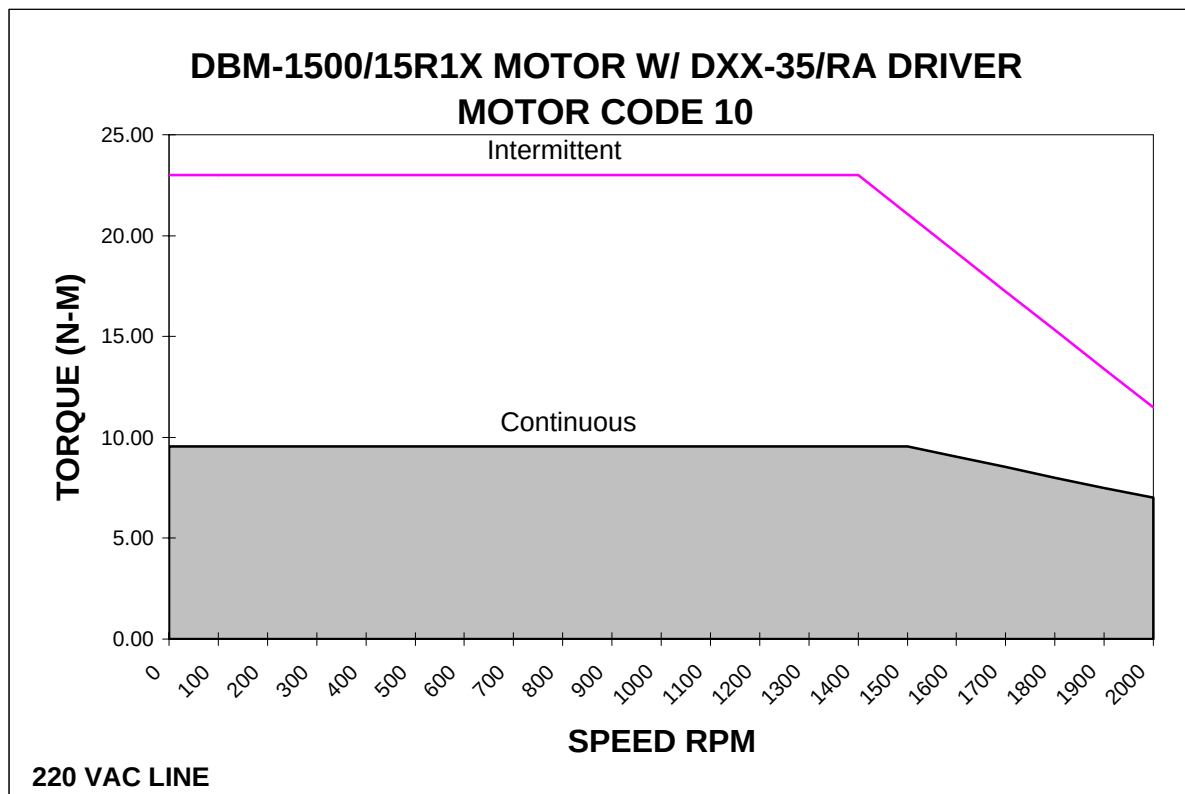


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1500LRA

6/1/03

POWER OUTPUT	WATTS	1500
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	9.55
	LB-IN	84.52
	LB-FT	7.04
PEAK TORQUE	N-M	23.00
	LB-IN	203.57
	LB-FT	16.96
ROTOR INERTIA	KG-CM^2	4.1
	LB-IN-SEC^2	0.003629
	LB-FT-SEC^2	0.0003024
MOTOR WEIGHT	KG	10.9
	LBS	24.0
RESOLVER	PPR	12000
RESOLVER TYPE	BRCT	1X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

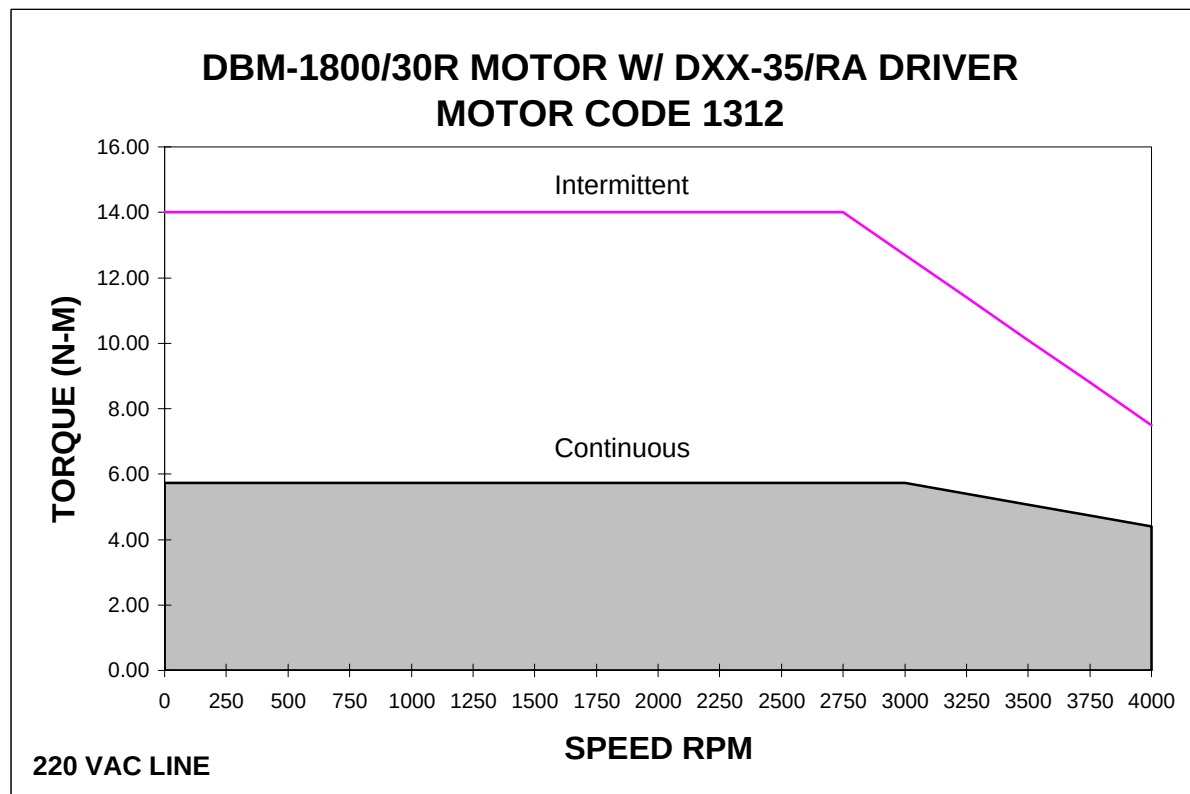


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1500LRA1X

6/1/03

POWER OUTPUT	WATTS	1800
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	5.73
	LB-IN	50.71
	LB-FT	4.23
PEAK TORQUE	N-M	14.00
	LB-IN	123.91
	LB-FT	10.33
ROTOR INERTIA	KG-CM^2	2.570
	LB-IN-SEC^2	0.002275
	LB-FT-SEC^2	0.0001896
MOTOR WEIGHT	KG	7.8
	LBS	17.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

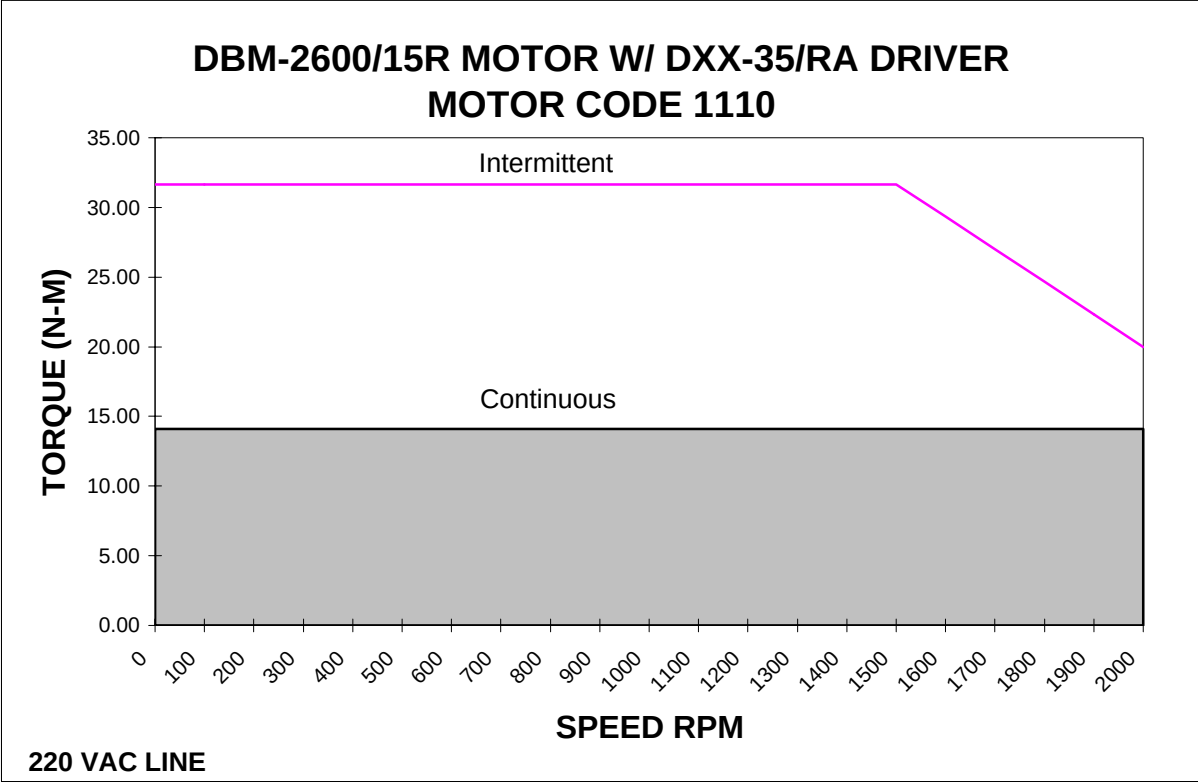


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
1800HRA

6/1/03

POWER OUTPUT	WATTS	2200
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	14.08
	LB-IN	124.62
	LB-FT	10.38
PEAK TORQUE	N-M	31.66
	LB-IN	280.21
	LB-FT	23.35
ROTOR INERTIA	KG-CM^2	15.200
	LB-IN-SEC^2	0.013453
	LB-FT-SEC^2	0.0011211
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

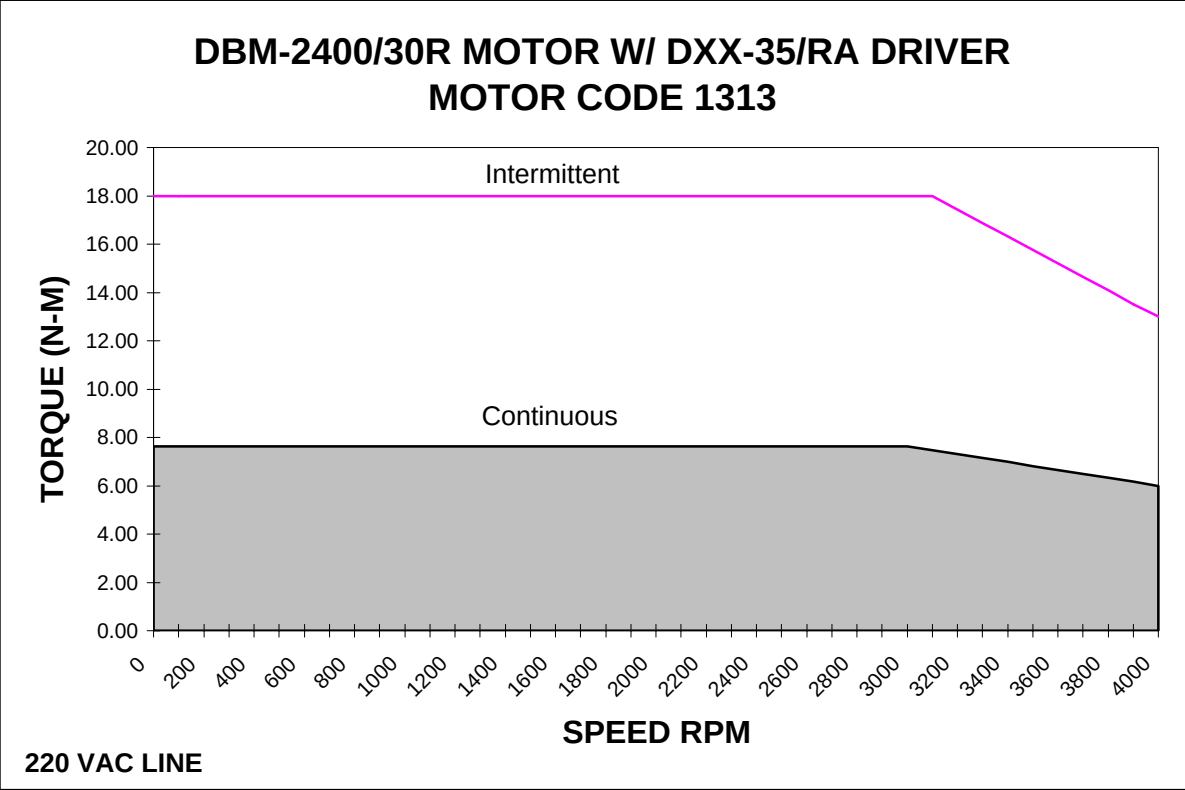
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
2200LRA

POWER OUTPUT	WATTS	2399
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	7.64
	LB-IN	67.62
	LB-FT	5.63
PEAK TORQUE	N-M	18.00
	LB-IN	159.31
	LB-FT	13.28
ROTOR INERTIA	KG-CM^2	4.100
	LB-IN-SEC^2	0.003629
	LB-FT-SEC^2	0.0003024
MOTOR WEIGHT	KG	10.9
	LBS	24.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

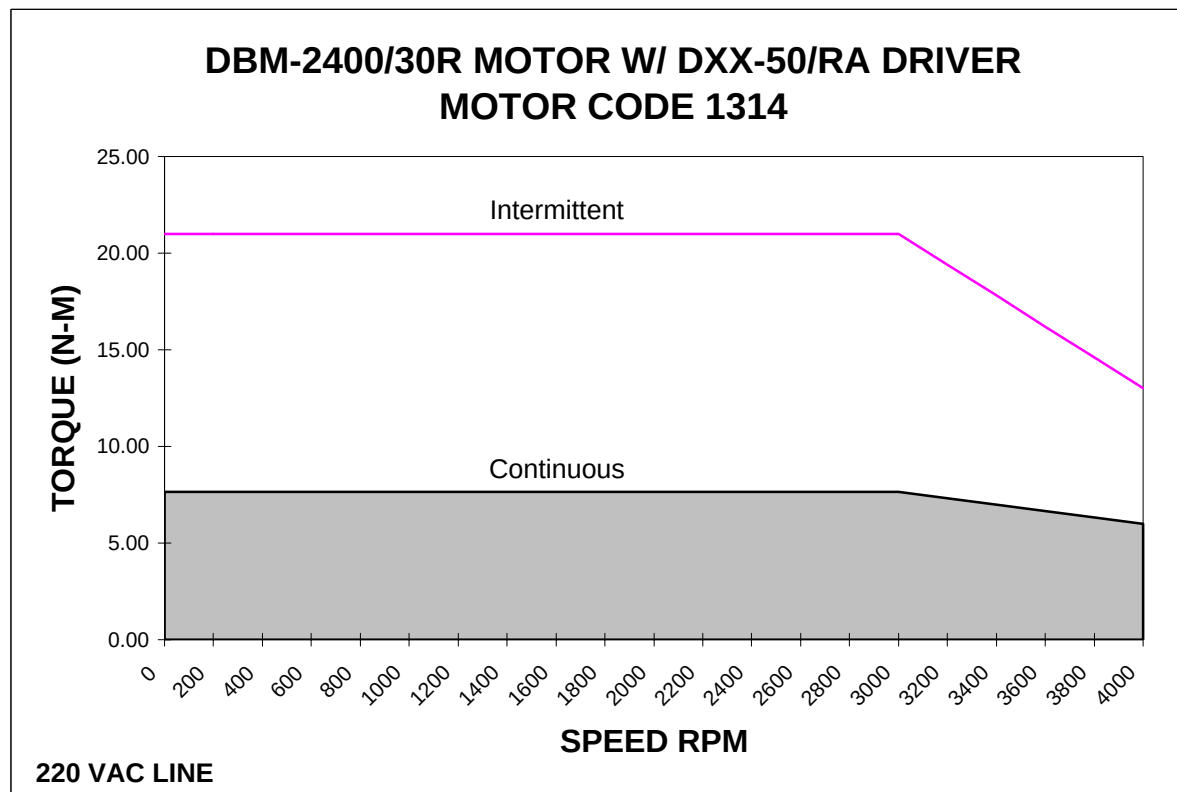
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
2399HRA

POWER OUTPUT	WATTS	2400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	7.64
	LB-IN	67.62
	LB-FT	5.63
PEAK TORQUE	N-M	21.00
	LB-IN	185.87
	LB-FT	15.49
ROTOR INERTIA	KG-CM^2	4.100
	LB-IN-SEC^2	0.003629
	LB-FT-SEC^2	0.0003024
MOTOR WEIGHT	KG	10.9
	LBS	24.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.680
	LB-IN-SEC^2	0.000602
	LB-FT-SEC^2	0.0000502

*Specifications subject to change without notice

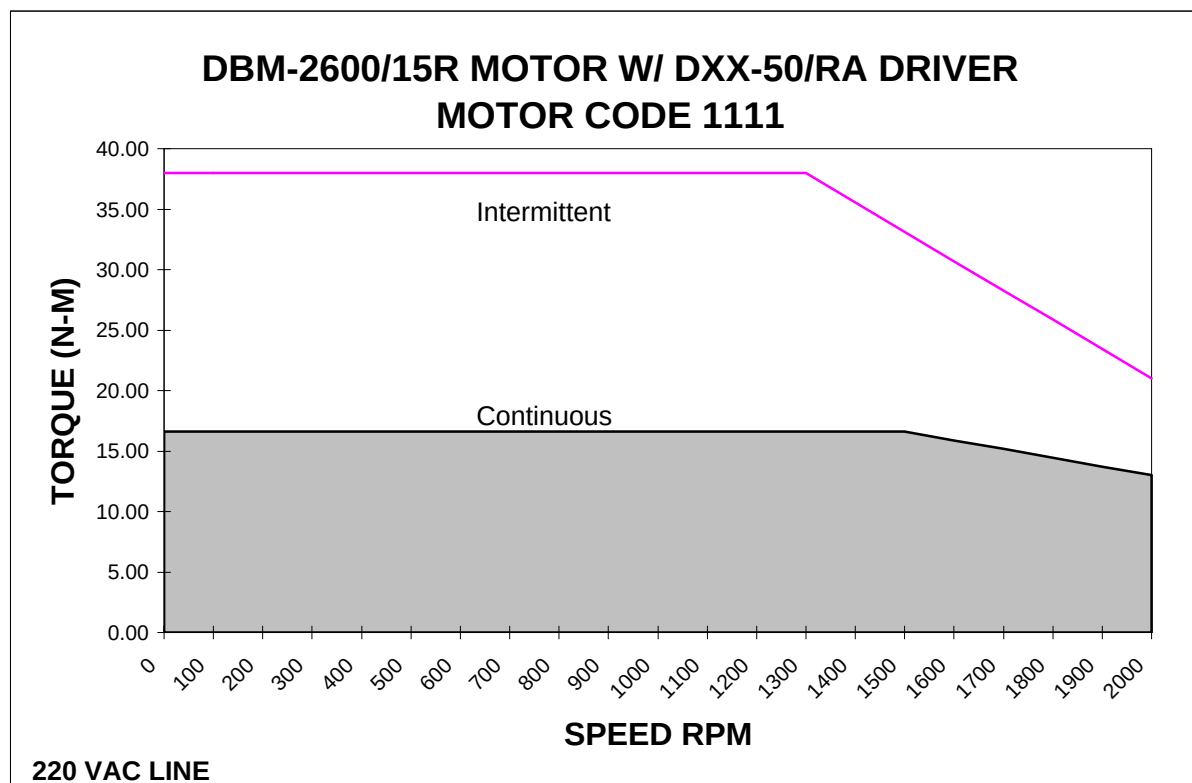


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
2400HRA

6/1/03

POWER OUTPUT	WATTS	2600
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	16.60
	LB-IN	146.92
	LB-FT	12.24
PEAK TORQUE	N-M	38.00
	LB-IN	336.33
	LB-FT	28.03
ROTOR INERTIA	KG-CM^2	15.200
	LB-IN-SEC^2	0.013453
	LB-FT-SEC^2	0.0011211
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

*Specifications subject to change without notice

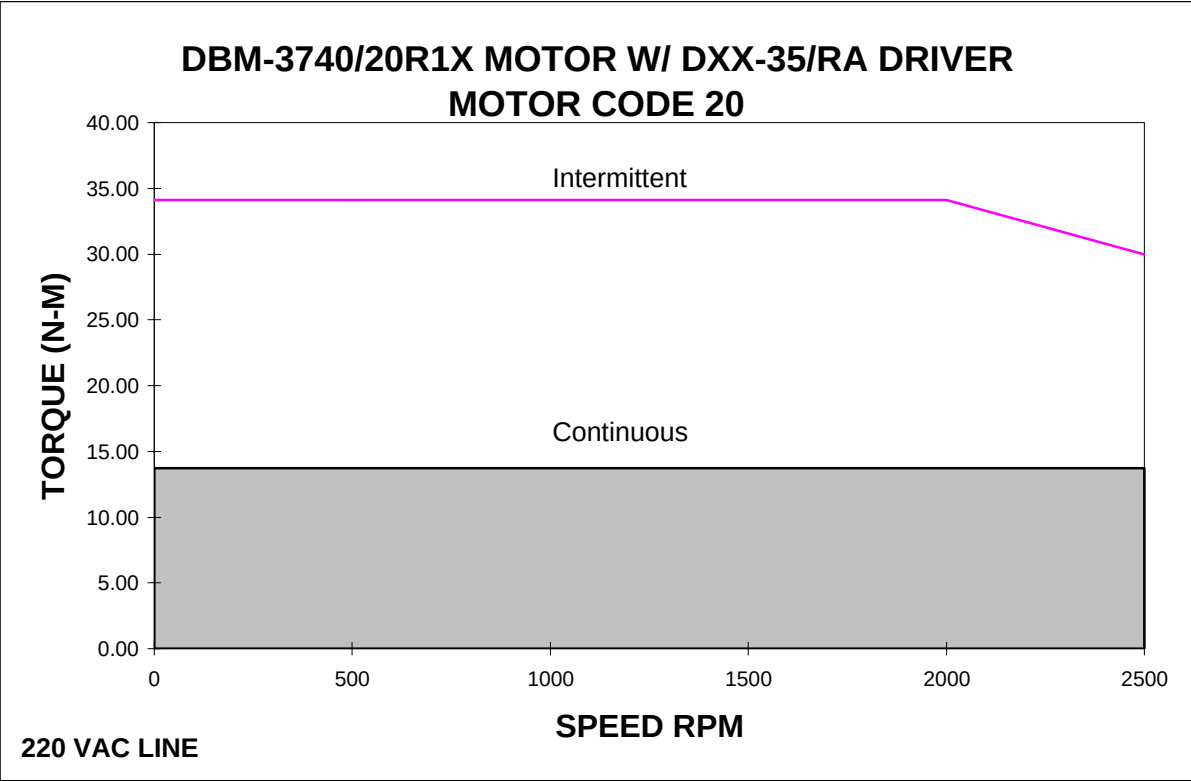


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
2600LRA

6/1/03

POWER OUTPUT	WATTS	2860
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	13.72
	LB-IN	121.43
	LB-FT	10.12
PEAK TORQUE	N-M	34.11
	LB-IN	301.90
	LB-FT	25.16
ROTOR INERTIA	KG-CM^2	66
	LB-IN-SEC^2	0.058415
	LB-FT-SEC^2	0.0048679
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	12000
RESOLVER TYPE	BRCT	1X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

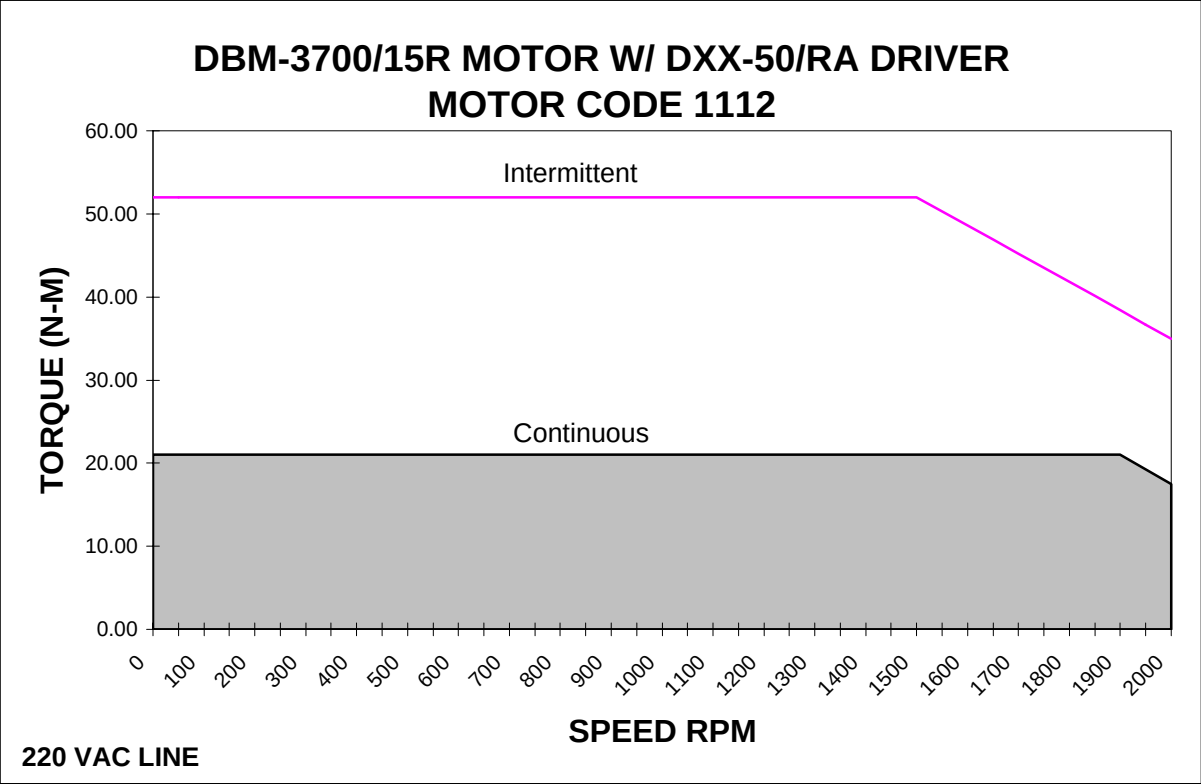
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
2860MRA1X

POWER OUTPUT	WATTS	3000
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	21.00
	LB-IN	185.87
	LB-FT	15.49
PEAK TORQUE	N-M	52.00
	LB-IN	460.24
	LB-FT	38.35
ROTOR INERTIA	KG-CM^2	22.300
	LB-IN-SEC^2	0.019737
	LB-FT-SEC^2	0.0016448
MOTOR WEIGHT	KG	27.0
	LBS	59.5
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

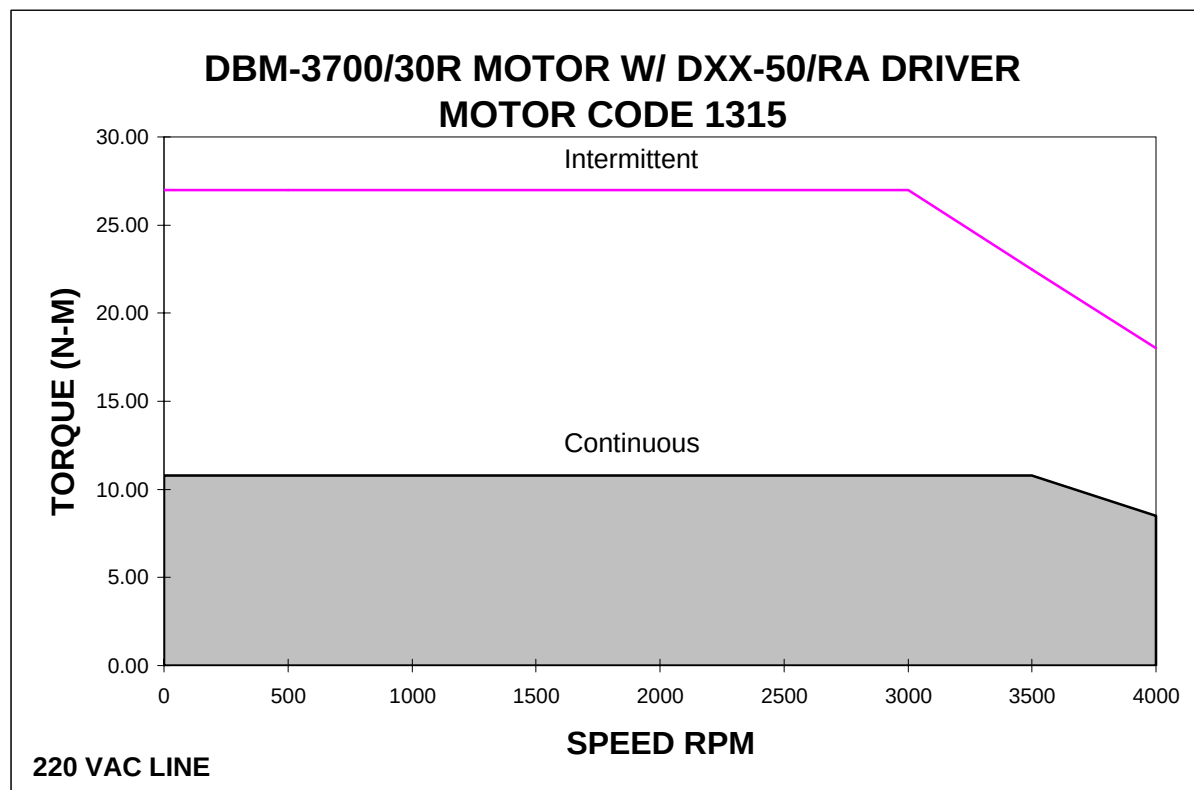
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
3300LRA

POWER OUTPUT	WATTS	3400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	10.80
	LB-IN	95.59
	LB-FT	7.97
PEAK TORQUE	N-M	27.00
	LB-IN	238.97
	LB-FT	19.91
ROTOR INERTIA	KG-CM^2	15.200
	LB-IN-SEC^2	0.013453
	LB-FT-SEC^2	0.0011211
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

*Specifications subject to change without notice

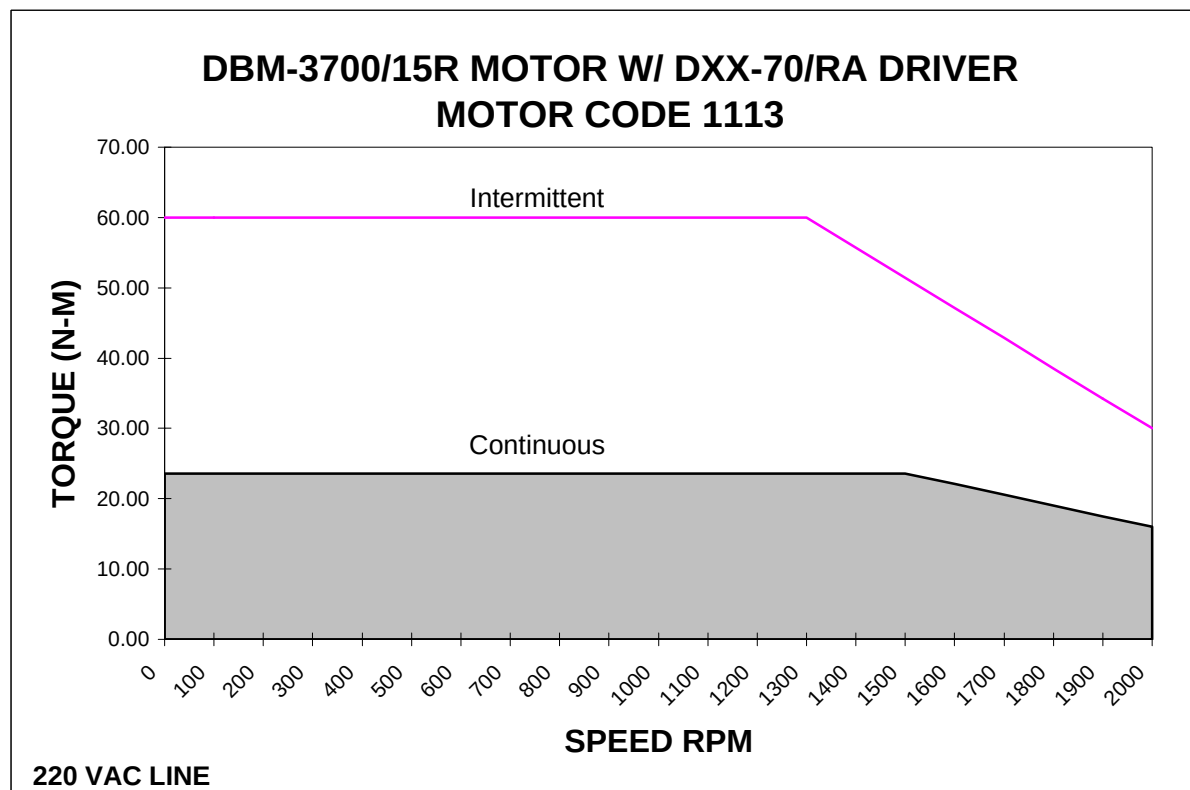


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
3400HRA

6/1/03

POWER OUTPUT	WATTS	3700
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	23.60
	LB-IN	208.88
	LB-FT	17.41
PEAK TORQUE	N-M	60.00
	LB-IN	531.05
	LB-FT	44.25
ROTOR INERTIA	KG-CM^2	22.300
	LB-IN-SEC^2	0.019737
	LB-FT-SEC^2	0.0016448
MOTOR WEIGHT	KG	27.0
	LBS	59.5
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

*Specifications subject to change without notice

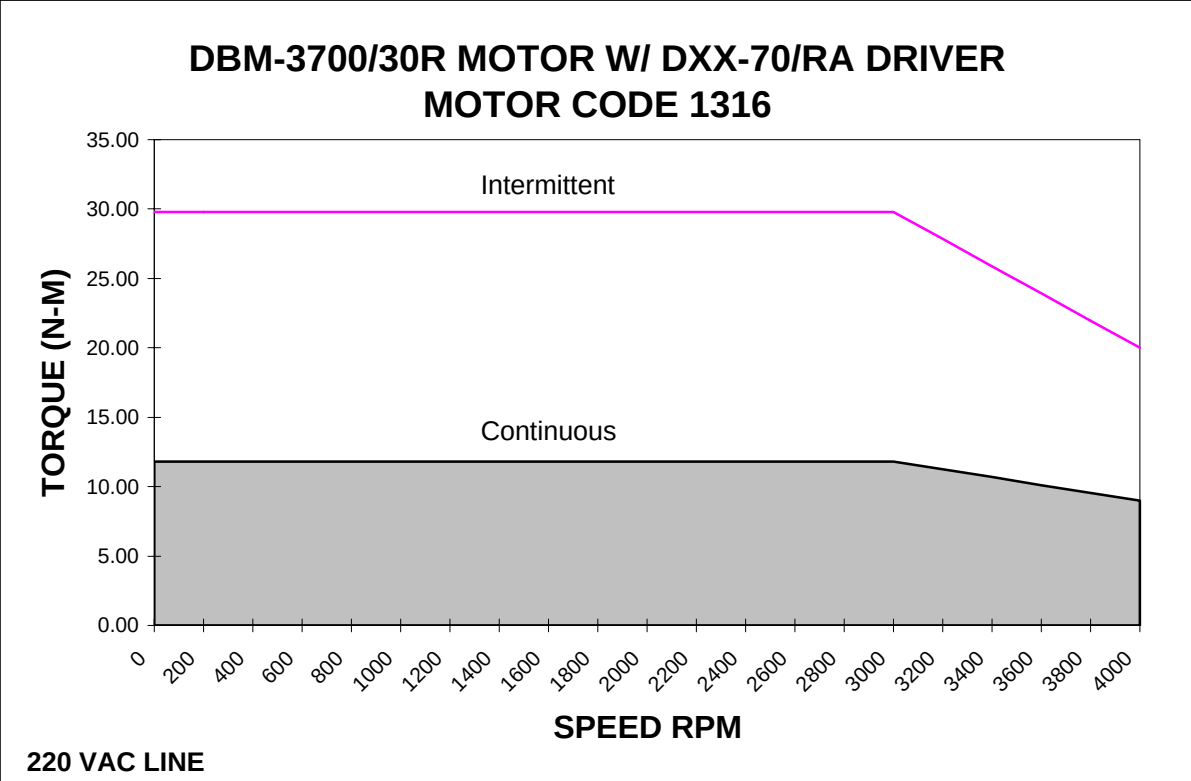


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
3700LRA

6/1/03

POWER OUTPUT	WATTS	3700
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	11.80
	LB-IN	104.44
	LB-FT	8.70
PEAK TORQUE	N-M	29.80
	LB-IN	263.75
	LB-FT	21.98
ROTOR INERTIA	KG-CM^2	15.200
	LB-IN-SEC^2	0.013453
	LB-FT-SEC^2	0.0011211
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

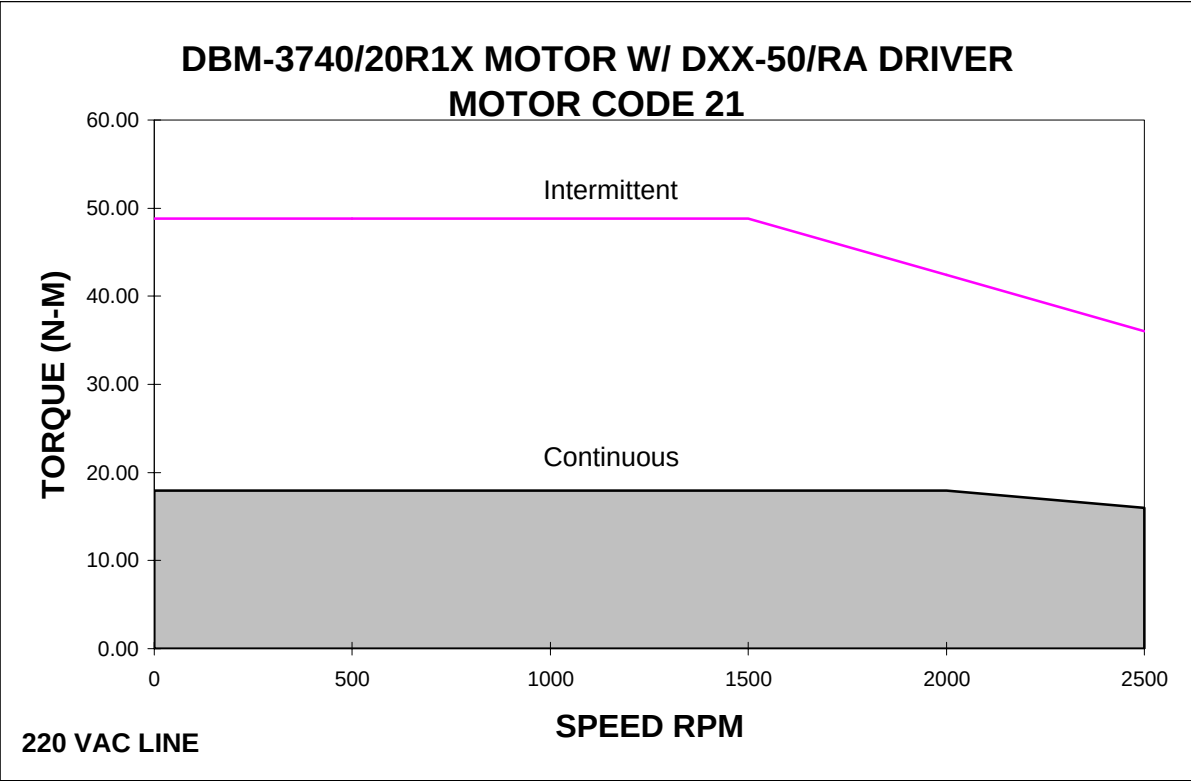
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
3700HRA

POWER OUTPUT	WATTS	3740
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	17.94
	LB-IN	158.78
	LB-FT	13.23
PEAK TORQUE	N-M	48.81
	LB-IN	432.01
	LB-FT	36.00
ROTOR INERTIA	KG-CM^2	66
	LB-IN-SEC^2	0.058415
	LB-FT-SEC^2	0.0048679
MOTOR WEIGHT	KG	20.0
	LBS	44.1
RESOLVER	PPR	12000
RESOLVER TYPE	BRCT	1X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

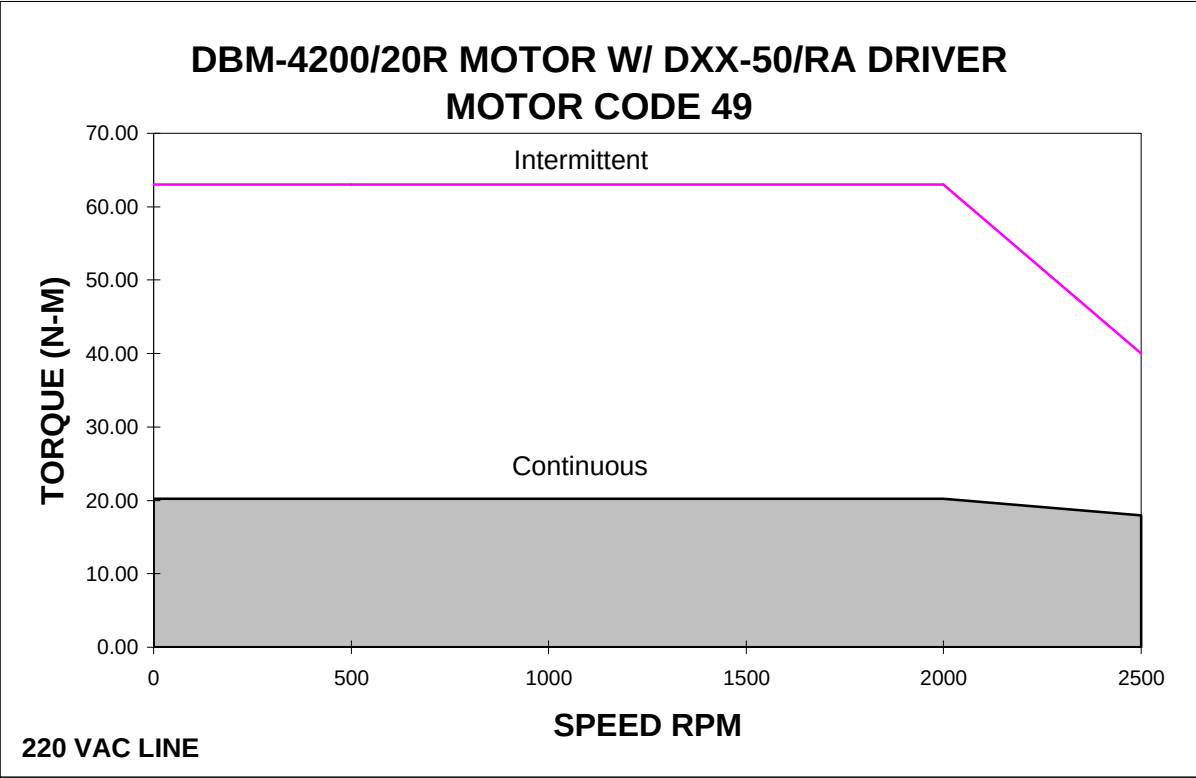
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
3740MRA1X

POWER OUTPUT	WATTS	4200
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	20.20
	LB-IN	178.79
	LB-FT	14.90
PEAK TORQUE	N-M	63.00
	LB-IN	557.60
	LB-FT	46.47
ROTOR INERTIA	KG-CM^2	22.300
	LB-IN-SEC^2	0.019737
	LB-FT-SEC^2	0.0016448
MOTOR WEIGHT	KG	22.7
	LBS	50.0
RESOLVER	PPR	12000
RESOLVER TYPE	BRCX	1X
AMBIENT TEMP	°C	25
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

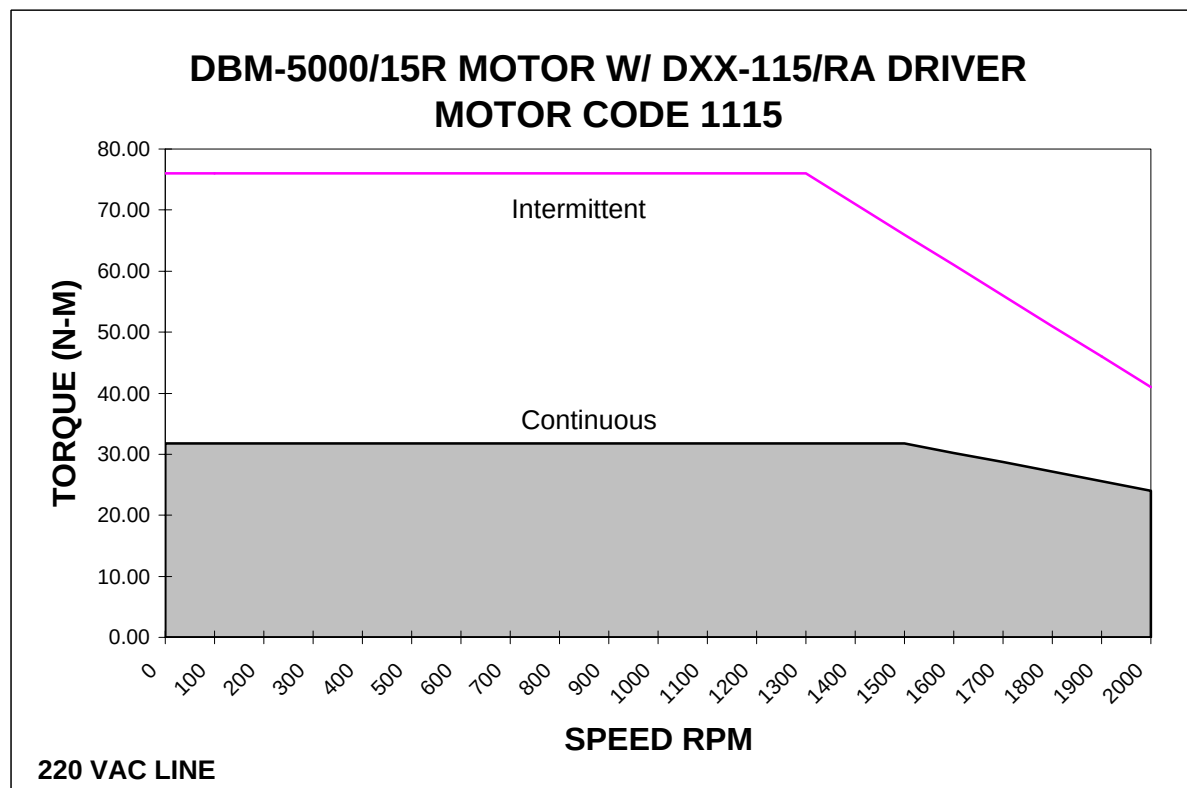
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
4200MRA1X

POWER OUTPUT	WATTS	5000
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	31.80
	LB-IN	281.45
	LB-FT	23.45
PEAK TORQUE	N-M	76.00
	LB-IN	672.66
	LB-FT	56.05
ROTOR INERTIA	KG-CM^2	30.000
	LB-IN-SEC^2	0.026552
	LB-FT-SEC^2	0.0022127
MOTOR WEIGHT	KG	34.0
	LBS	75.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

*Specifications subject to change without notice

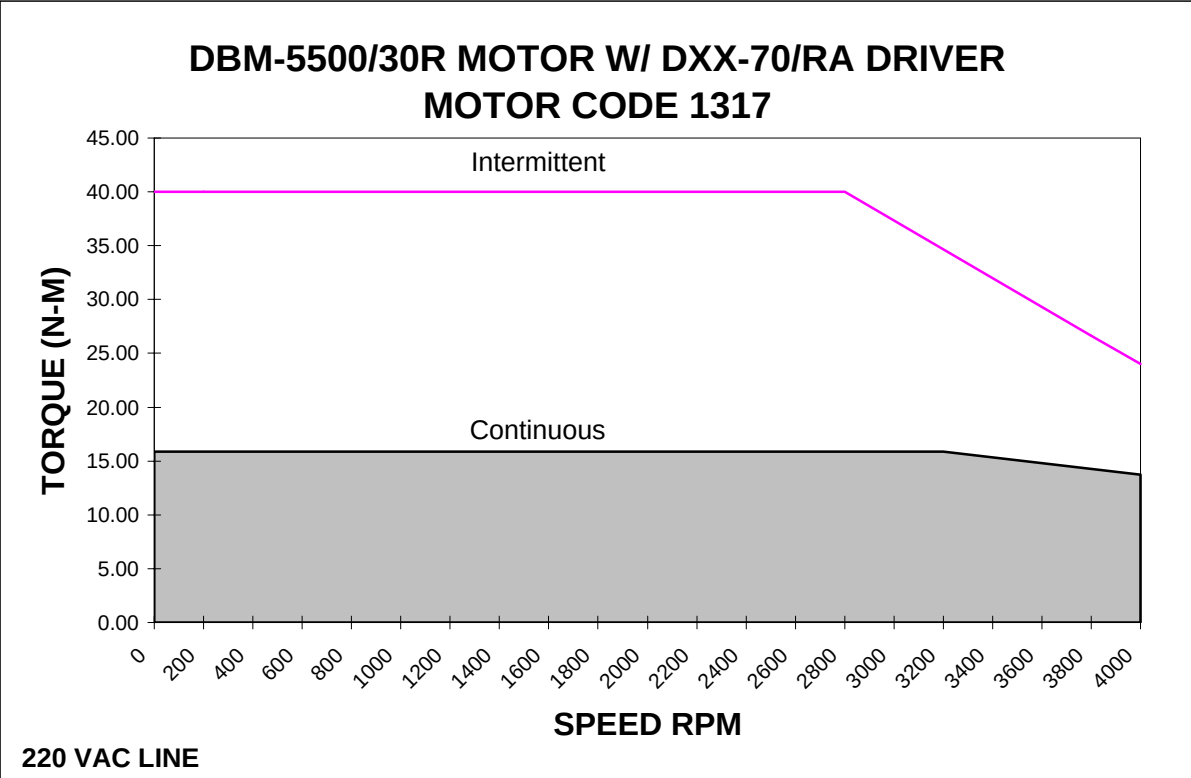


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
5000LRA

6/1/03

POWER OUTPUT	WATTS	5000
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	15.90
	LB-IN	140.73
	LB-FT	11.73
PEAK TORQUE	N-M	40.00
	LB-IN	354.03
	LB-FT	29.50
ROTOR INERTIA	KG-CM^2	22.300
	LB-IN-SEC^2	0.019737
	LB-FT-SEC^2	0.0016448
MOTOR WEIGHT	KG	27.0
	LBS	59.5
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

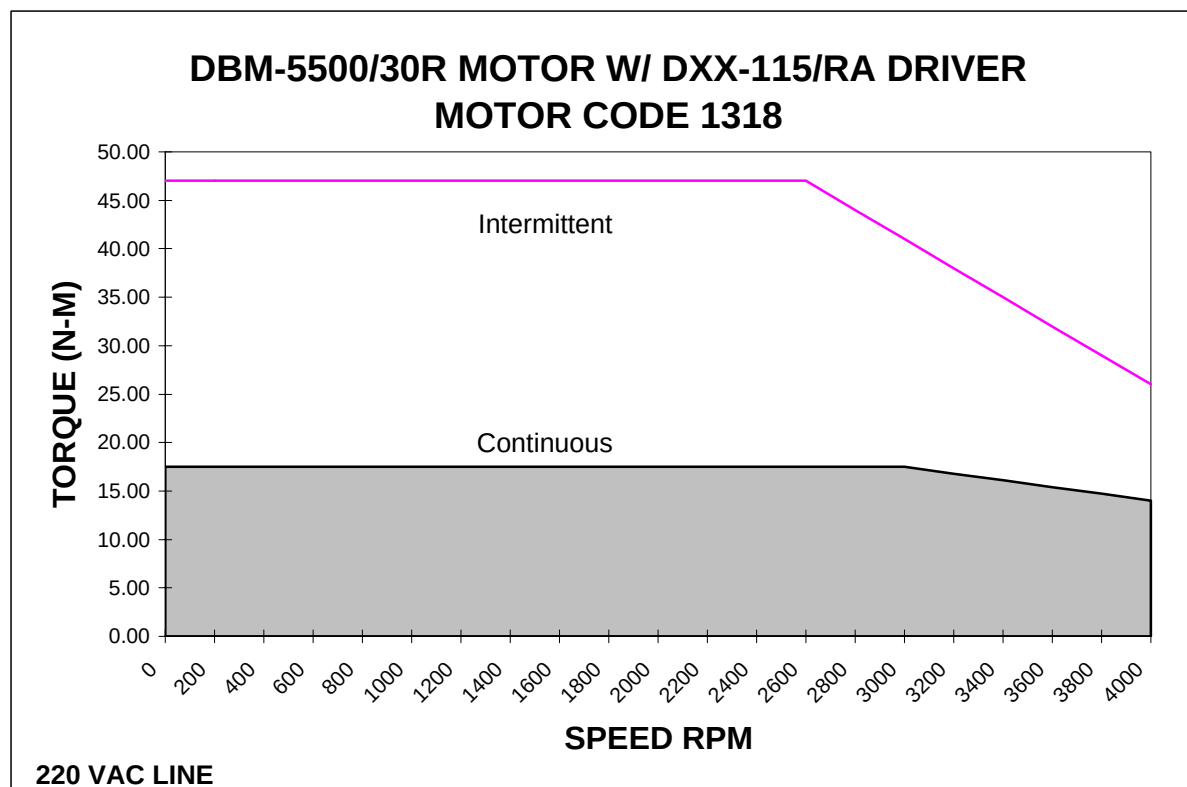
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
5000HRA

POWER OUTPUT	WATTS	5500
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	17.50
	LB-IN	154.89
	LB-FT	12.91
PEAK TORQUE	N-M	47.00
	LB-IN	415.99
	LB-FT	34.67
ROTOR INERTIA	KG-CM^2	22.300
	LB-IN-SEC^2	0.019737
	LB-FT-SEC^2	0.0016448
MOTOR WEIGHT	KG	27.0
	LBS	59.5
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

*Specifications subject to change without notice

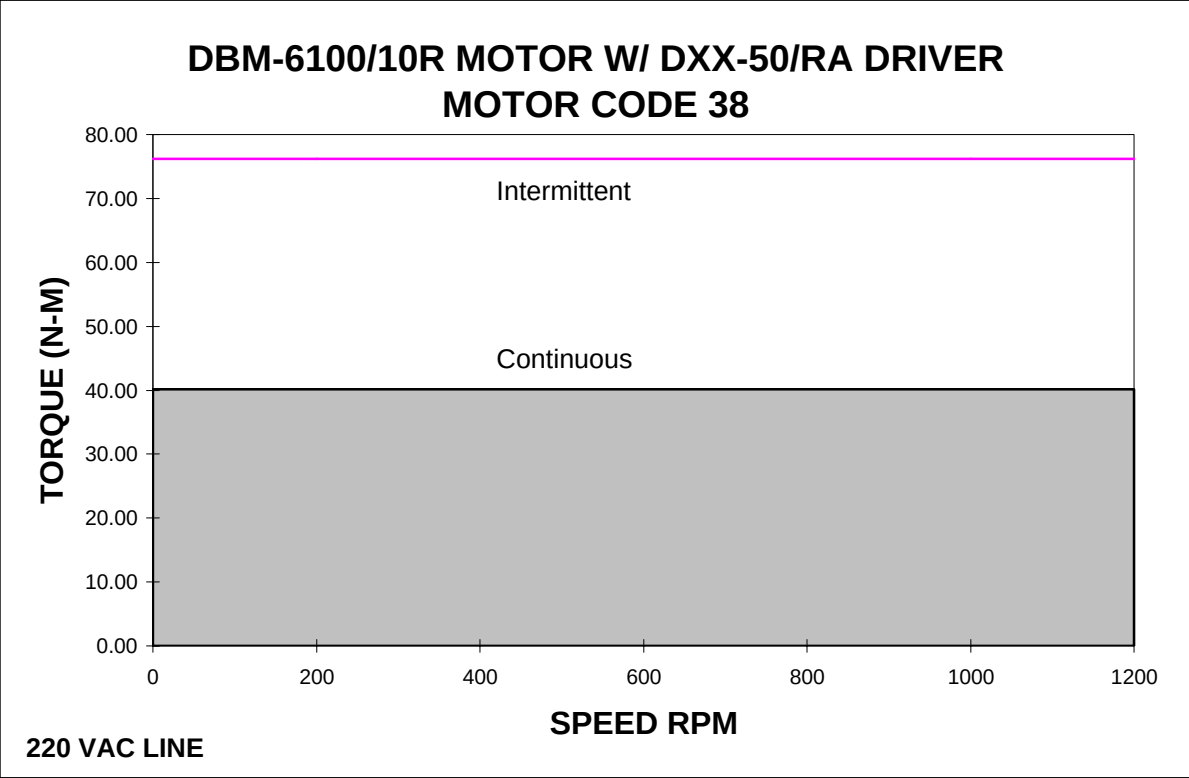


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
5500HRA

6/1/03

POWER OUTPUT	WATTS	6100
RATED SPEED	RPM	1000
MAX SPEED	RPM	1200
RATED TORQUE	N-M	40.19
	LB-IN	355.71
	LB-FT	29.64
PEAK TORQUE	N-M	76.16
	LB-IN	674.07
	LB-FT	56.17
ROTOR INERTIA	KG-CM^2	81.000
	LB-IN-SEC^2	0.071691
	LB-FT-SEC^2	0.0059742
MOTOR WEIGHT	KG	29.9
	LBS	65.9
RESOLVER	PPR	3600
RESOLVER TYPE	BRCT	3X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

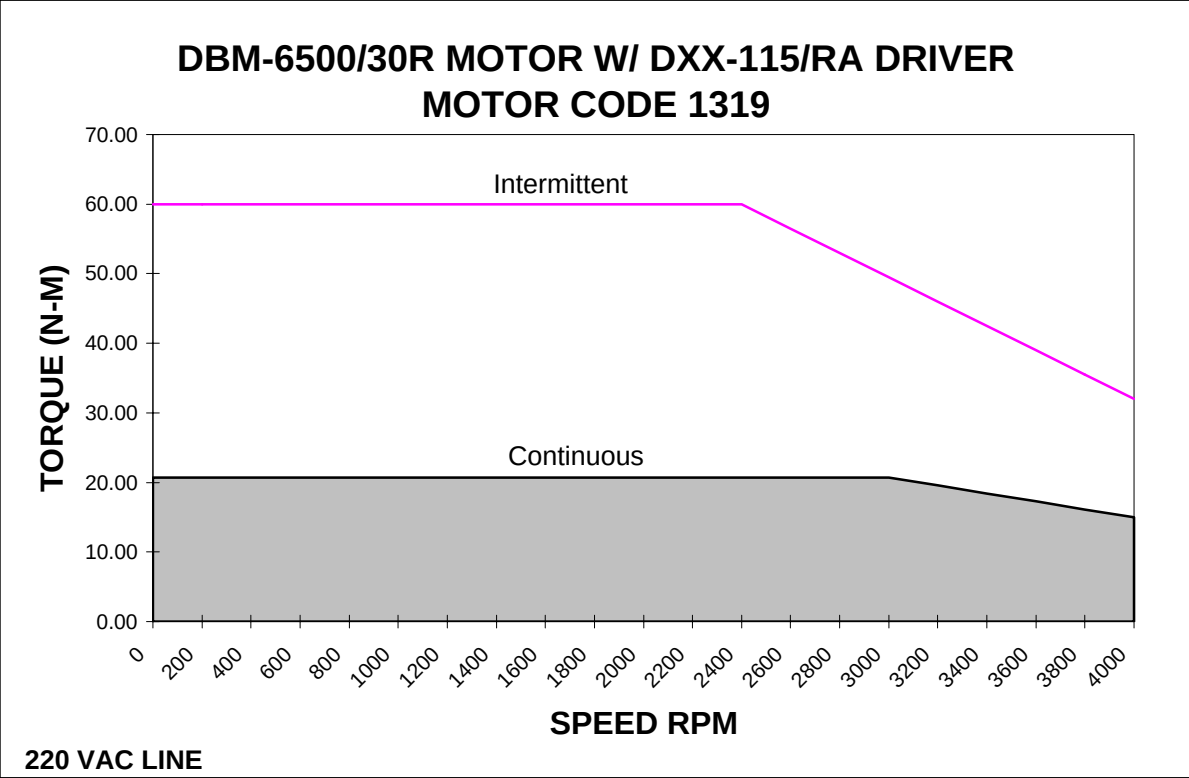
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
6100CRA

POWER OUTPUT	WATTS	6500
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	20.70
	LB-IN	183.21
	LB-FT	15.27
PEAK TORQUE	N-M	60.00
	LB-IN	531.05
	LB-FT	44.25
ROTOR INERTIA	KG-CM^2	30.000
	LB-IN-SEC^2	0.026552
	LB-FT-SEC^2	0.0022127
MOTOR WEIGHT	KG	34.0
	LBS	75.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	3.000
	LB-IN-SEC^2	0.002655
	LB-FT-SEC^2	0.0002213

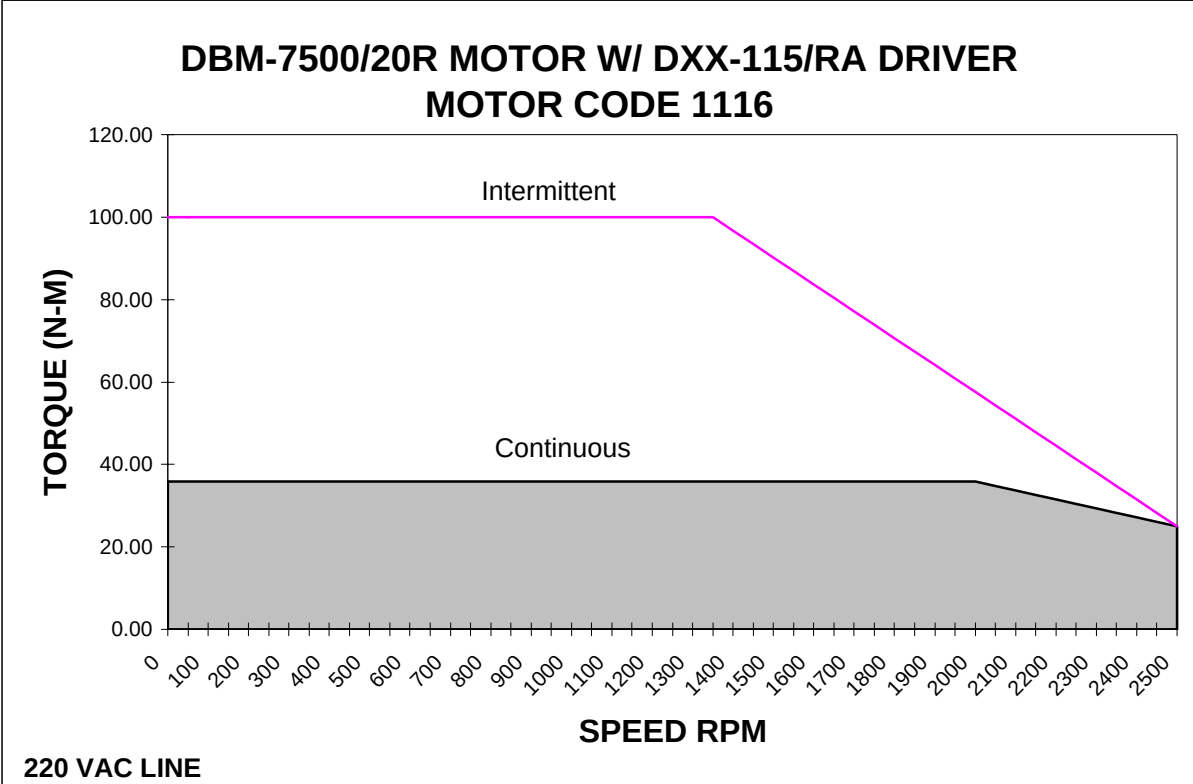
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
6500HRA

POWER OUTPUT	WATTS	7500
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	35.80
	LB-IN	316.86
	LB-FT	26.40
PEAK TORQUE	N-M	100.00
	LB-IN	885.08
	LB-FT	73.76
ROTOR INERTIA	KG-CM^2	55.000
	LB-IN-SEC^2	0.048679
	LB-FT-SEC^2	0.0040566
MOTOR WEIGHT	KG	44.0
	LBS	97.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	13.000
	LB-IN-SEC^2	0.011506
	LB-FT-SEC^2	0.0009588

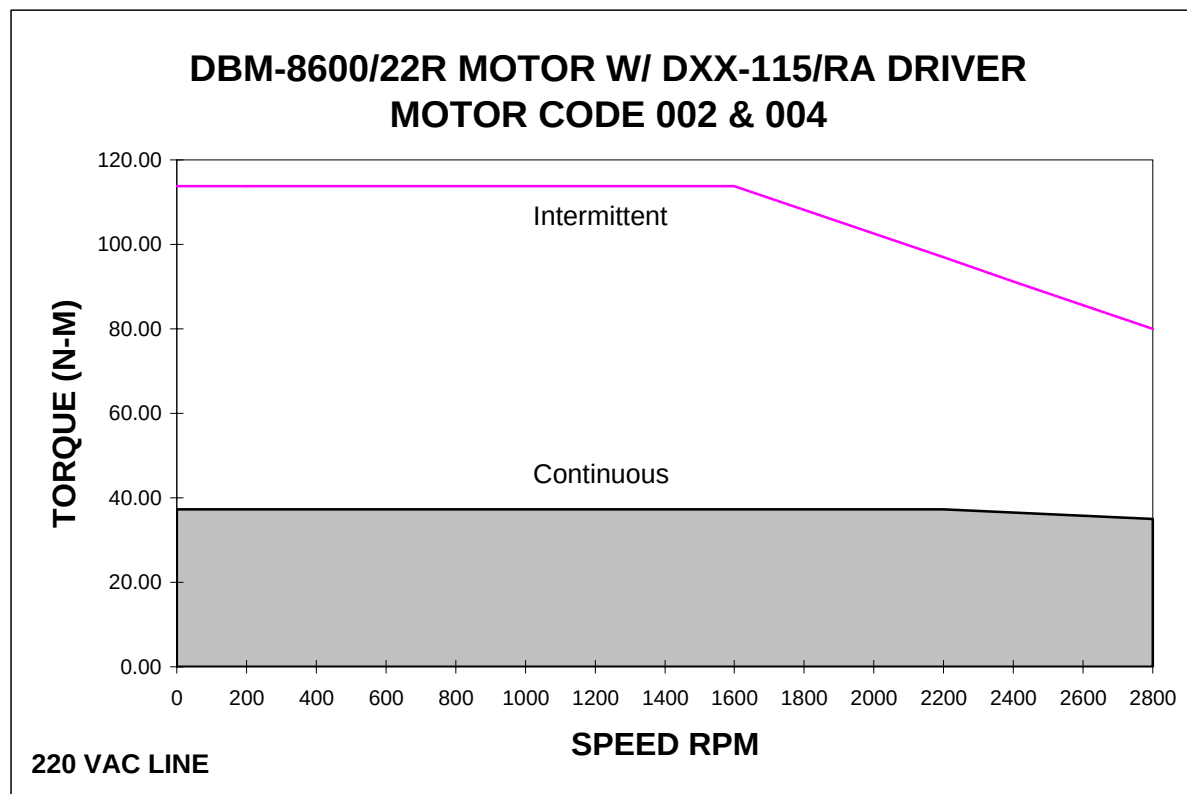
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
7500MRA

POWER OUTPUT	WATTS	8600
RATED SPEED	RPM	2200
MAX SPEED	RPM	2800
RATED TORQUE	N-M	37.25
	LB-IN	329.69
	LB-FT	27.47
PEAK TORQUE	N-M	113.80
	LB-IN	1007.22
	LB-FT	83.93
ROTOR INERTIA	KG-CM^2	30.400
	LB-IN-SEC^2	0.026906
	LB-FT-SEC^2	0.0022422
MOTOR WEIGHT	KG	29.9
	LBS	65.9
RESOLVER	PPR	36000
RESOLVER TYPE	BRCT	3X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

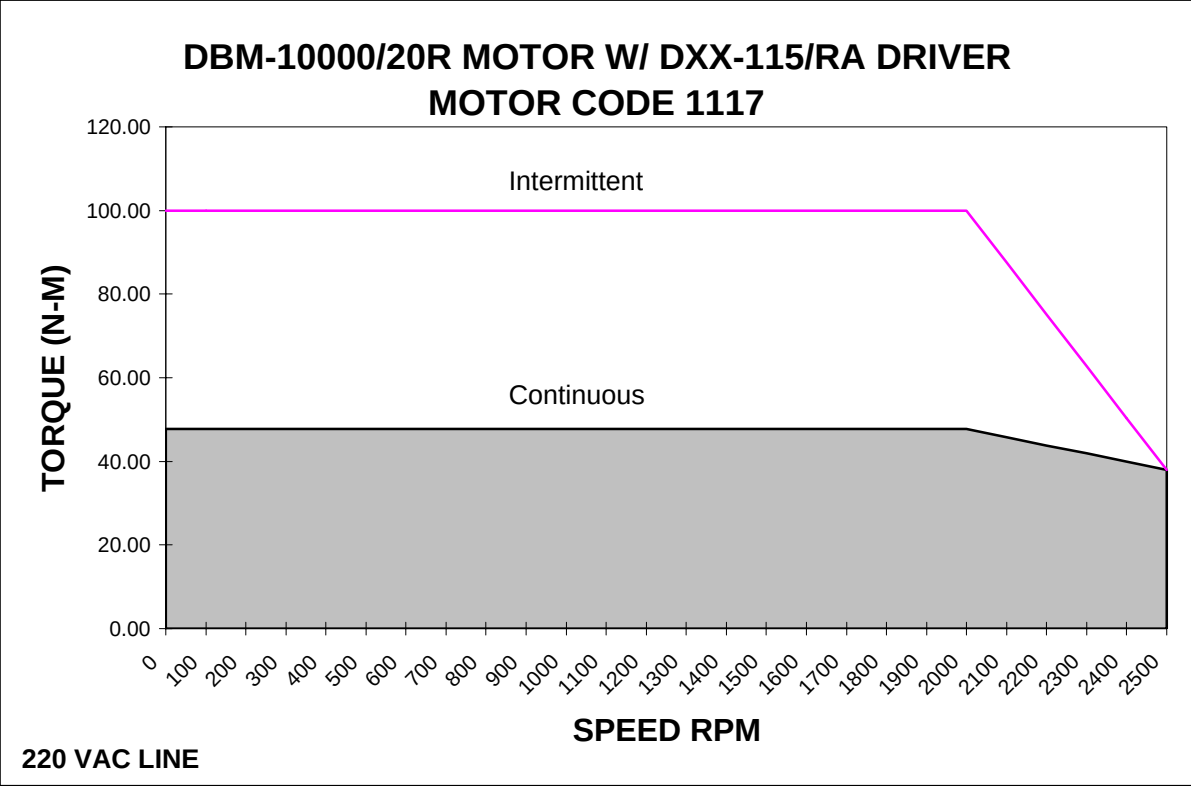


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
8600MRA

6/1/03

POWER OUTPUT	WATTS	10000
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	47.70
	LB-IN	422.18
	LB-FT	35.18
PEAK TORQUE	N-M	100.00
	LB-IN	885.08
	LB-FT	73.76
ROTOR INERTIA	KG-CM^2	84.000
	LB-IN-SEC^2	0.074346
	LB-FT-SEC^2	0.0061955
MOTOR WEIGHT	KG	62.0
	LBS	136.7
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	13.000
	LB-IN-SEC^2	0.011506
	LB-FT-SEC^2	0.0009588

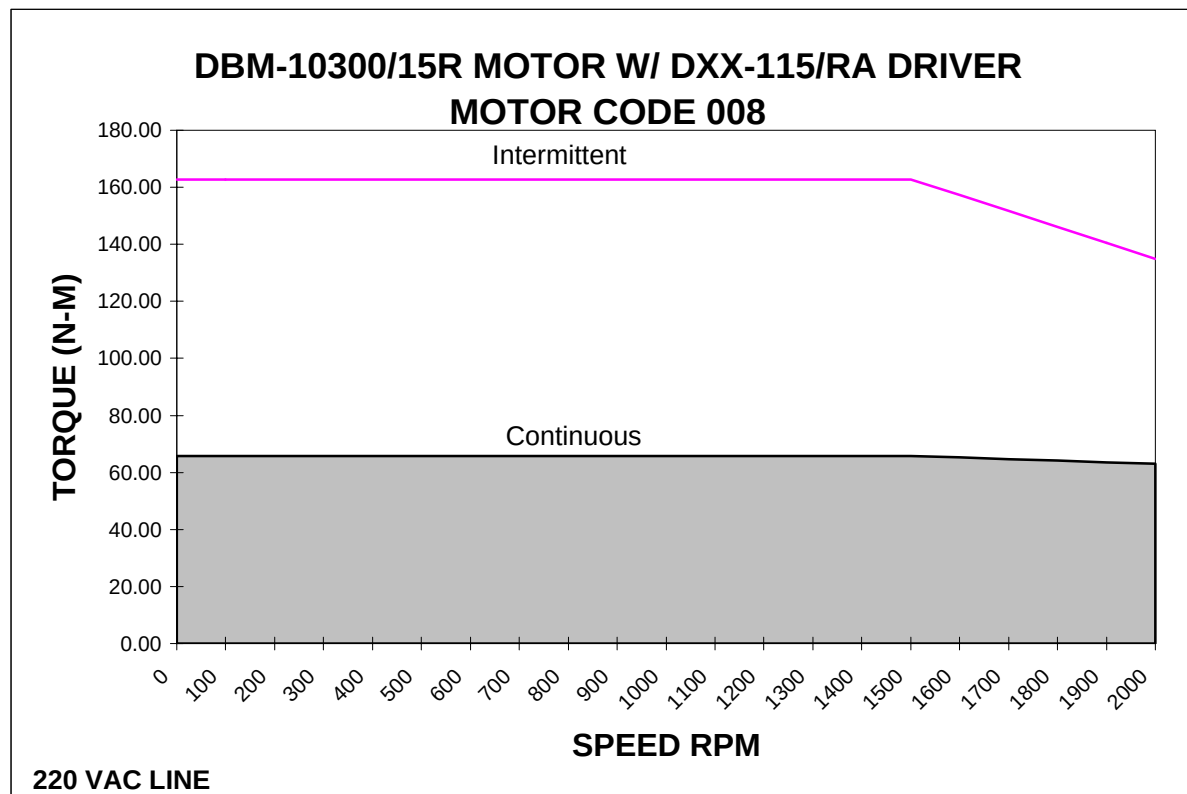
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
10000MRA

POWER OUTPUT	WATTS	10300
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	65.86
	LB-IN	582.91
	LB-FT	48.58
PEAK TORQUE	N-M	162.82
	LB-IN	1441.08
	LB-FT	120.09
ROTOR INERTIA	KG-CM^2	257.800
	LB-IN-SEC^2	0.228172
	LB-FT-SEC^2	0.0190143
MOTOR WEIGHT	KG	62.6
	LBS	138.0
RESOLVER	PPR	36000
RESOLVER TYPE	BRCT	3X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

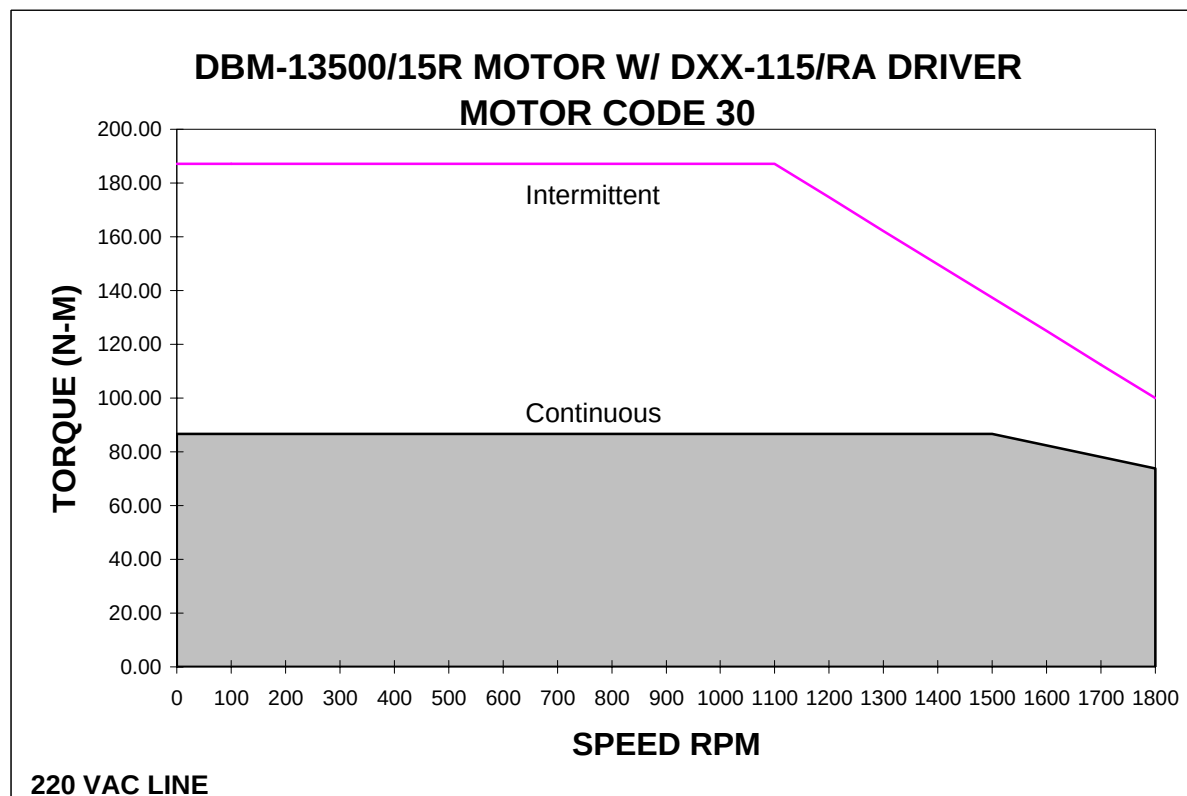


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
10300LRA

6/1/03

POWER OUTPUT	WATTS	13500
RATED SPEED	RPM	1500
MAX SPEED	RPM	1800
RATED TORQUE	N-M	86.77
	LB-IN	767.98
	LB-FT	64.00
PEAK TORQUE	N-M	187.10
	LB-IN	1655.98
	LB-FT	138.00
ROTOR INERTIA	KG-CM^2	126.091
	LB-IN-SEC^2	0.111600
	LB-FT-SEC^2	0.0093000
MOTOR WEIGHT	KG	67.0
	LBS	147.7
RESOLVER	PPR	36000
RESOLVER TYPE	BRCT	3X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

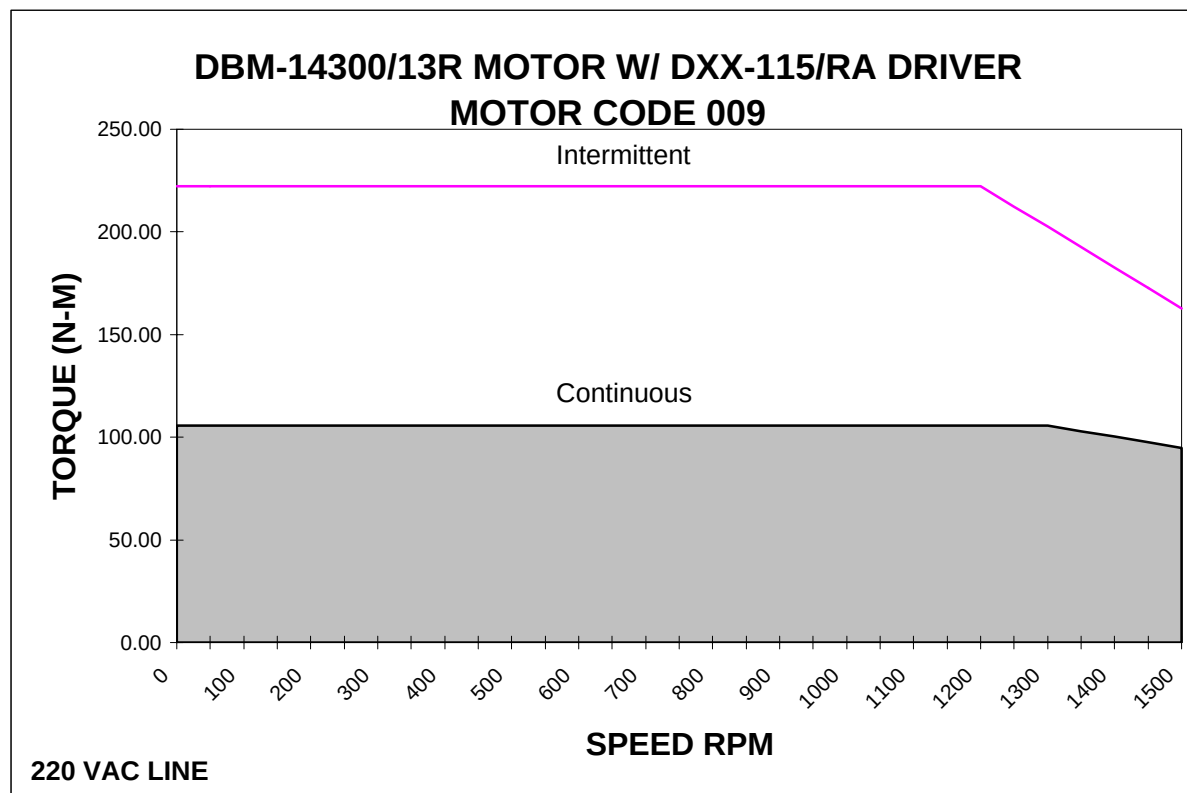


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
13500LRA

6/1/03

POWER OUTPUT	WATTS	14300
RATED SPEED	RPM	1300
MAX SPEED	RPM	1500
RATED TORQUE	N-M	105.75
	LB-IN	935.97
	LB-FT	78.00
PEAK TORQUE	N-M	222.35
	LB-IN	1967.96
	LB-FT	164.00
ROTOR INERTIA	KG-CM^2	150.000
	LB-IN-SEC^2	0.132761
	LB-FT-SEC^2	0.0110634
MOTOR WEIGHT	KG	76.2
	LBS	168.0
RESOLVER	PPR	36000
RESOLVER TYPE	BRCT	3X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

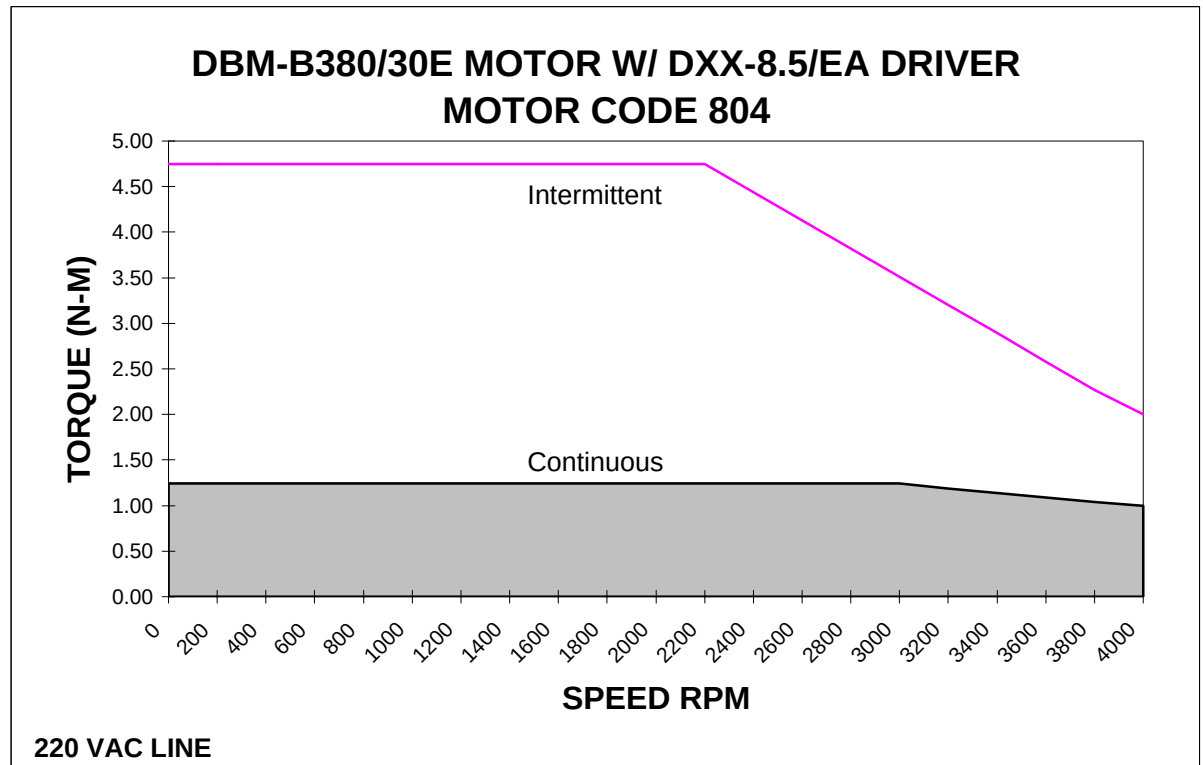


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
14300CRA

6/1/03

POWER OUTPUT	WATTS	380
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	1.24
	LB-IN	10.97
	LB-FT	0.91
PEAK TORQUE	N-M	4.75
	LB-IN	42.04
	LB-FT	3.50
ROTOR INERTIA	KG-CM^2	3.503
	LB-IN-SEC^2	0.003100
	LB-FT-SEC^2	0.0002584
MOTOR WEIGHT	KG	4.1
	LBS	9.0
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

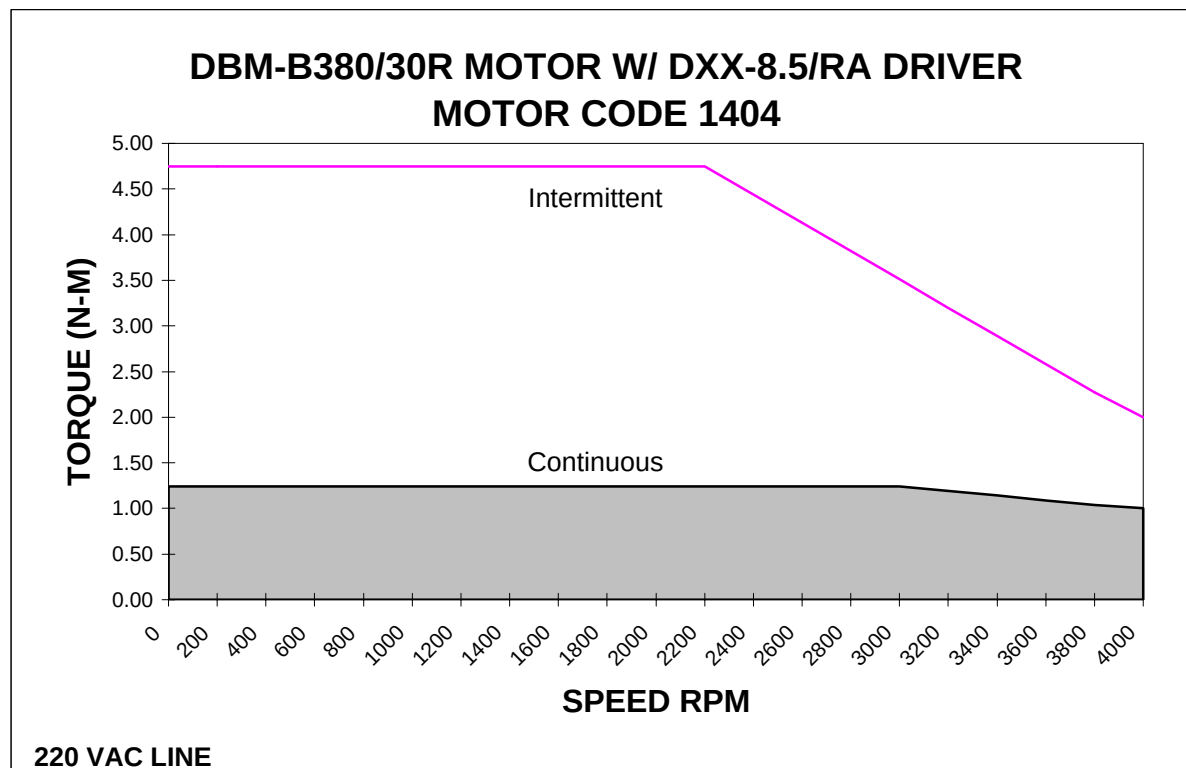


6/1/03

INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B380HEA

POWER OUTPUT	WATTS	380
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	1.24
	LB-IN	10.97
	LB-FT	0.91
PEAK TORQUE	N-M	4.75
	LB-IN	42.04
	LB-FT	3.50
ROTOR INERTIA	KG-CM^2	3.503
	LB-IN-SEC^2	0.003100
	LB-FT-SEC^2	0.0002583
MOTOR WEIGHT	KG	4.1
	LBS	9.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

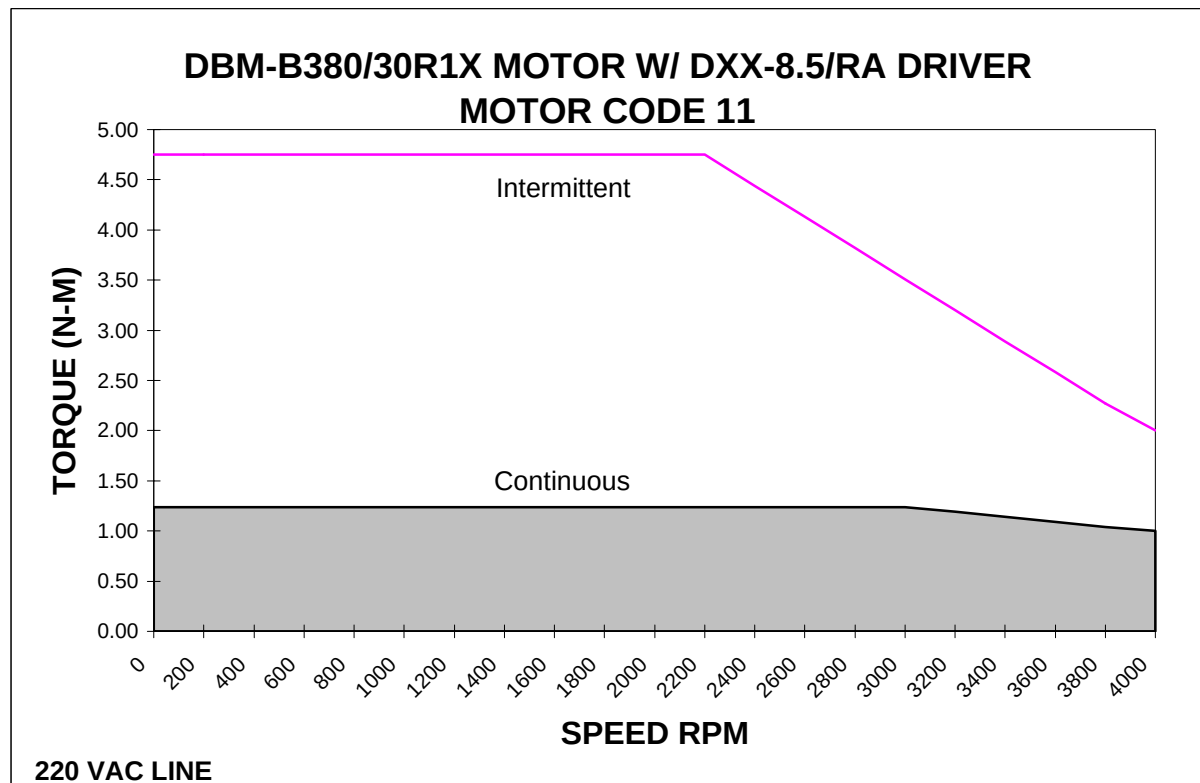


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B380HRA

6/1/03

POWER OUTPUT	WATTS	380
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	1.24
	LB-IN	10.97
	LB-FT	0.91
PEAK TORQUE	N-M	4.75
	LB-IN	42.04
	LB-FT	3.50
ROTOR INERTIA	KG-CM^2	3.503
	LB-IN-SEC^2	0.003100
	LB-FT-SEC^2	0.0002584
MOTOR WEIGHT	KG	4.1
	LBS	9.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

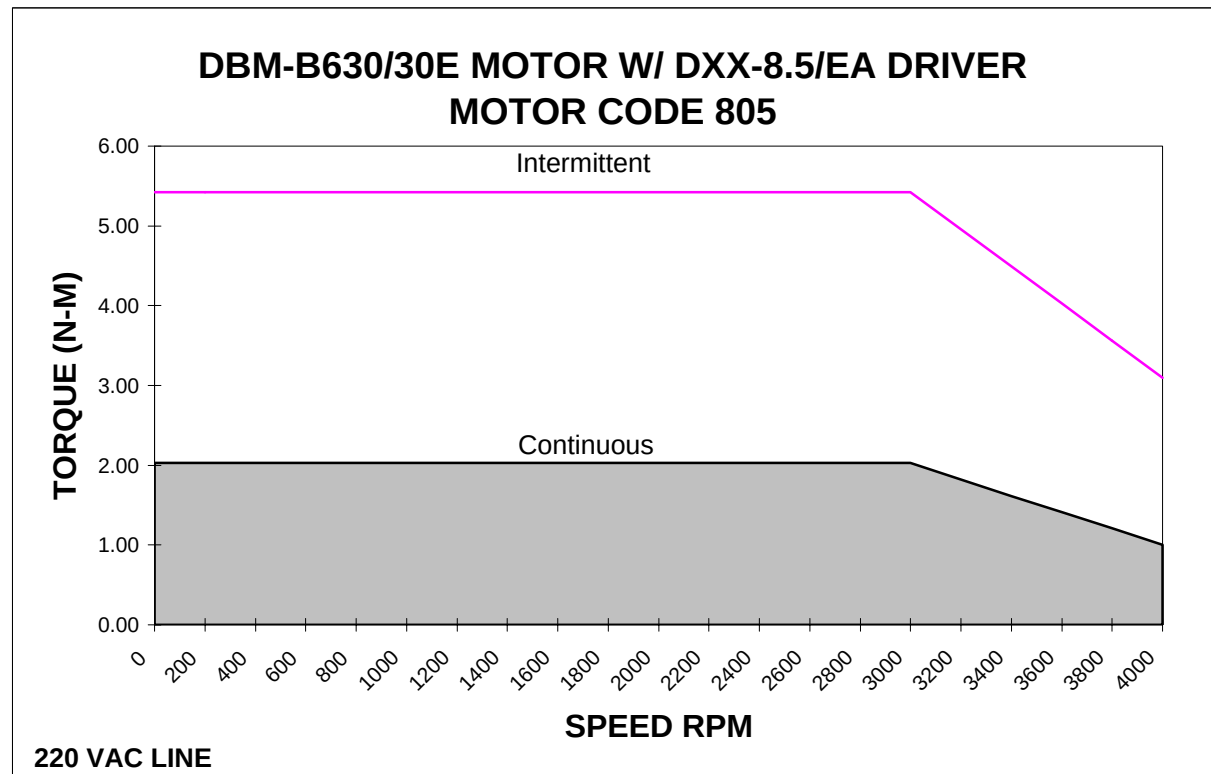


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B380HRA1X

6/1/03

POWER OUTPUT	WATTS	630
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.03
	LB-IN	17.97
	LB-FT	1.50
PEAK TORQUE	N-M	5.42
	LB-IN	47.97
	LB-FT	4.00
ROTOR INERTIA	KG-CM^2	5.649
	LB-IN-SEC^2	0.005000
	LB-FT-SEC^2	0.0004166
MOTOR WEIGHT	KG	6.4
	LBS	14.1
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

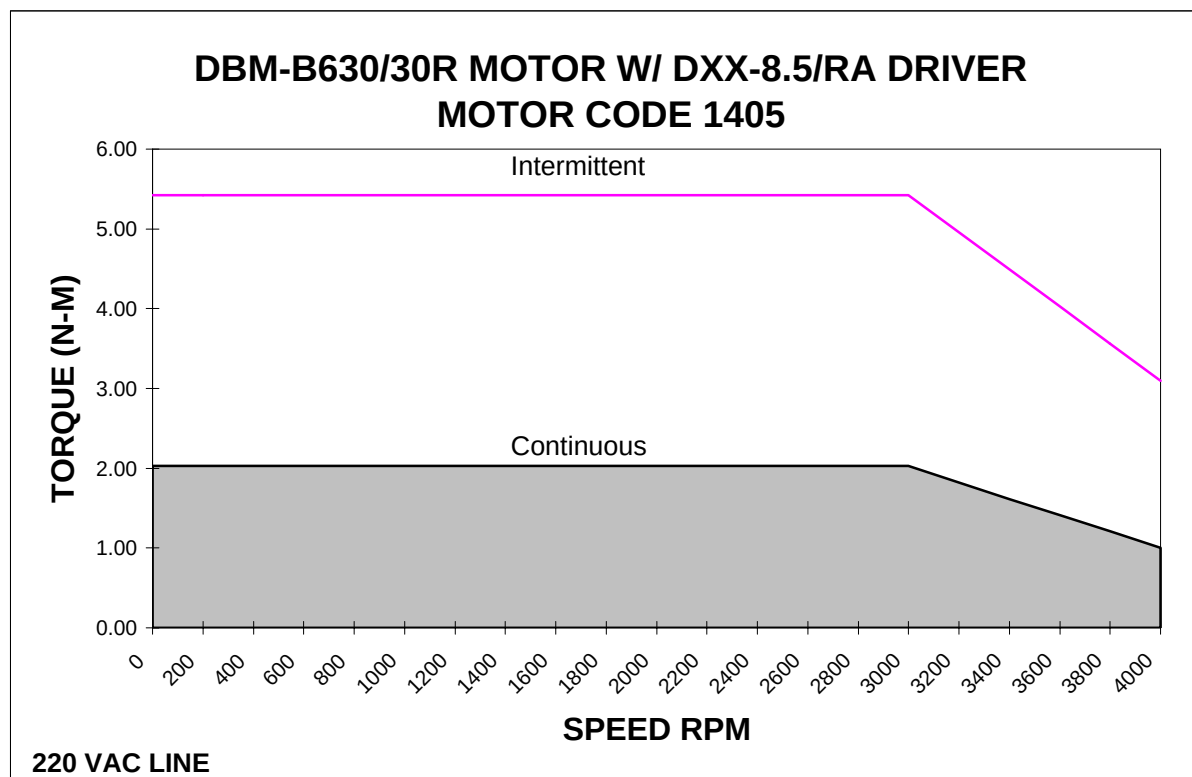


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B630HEA

6/1/03

POWER OUTPUT	WATTS	630
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.03
	LB-IN	17.97
	LB-FT	1.50
PEAK TORQUE	N-M	5.42
	LB-IN	47.97
	LB-FT	4.00
ROTOR INERTIA	KG-CM^2	5.649
	LB-IN-SEC^2	0.005000
	LB-FT-SEC^2	0.0004167
MOTOR WEIGHT	KG	6.4
	LBS	14.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

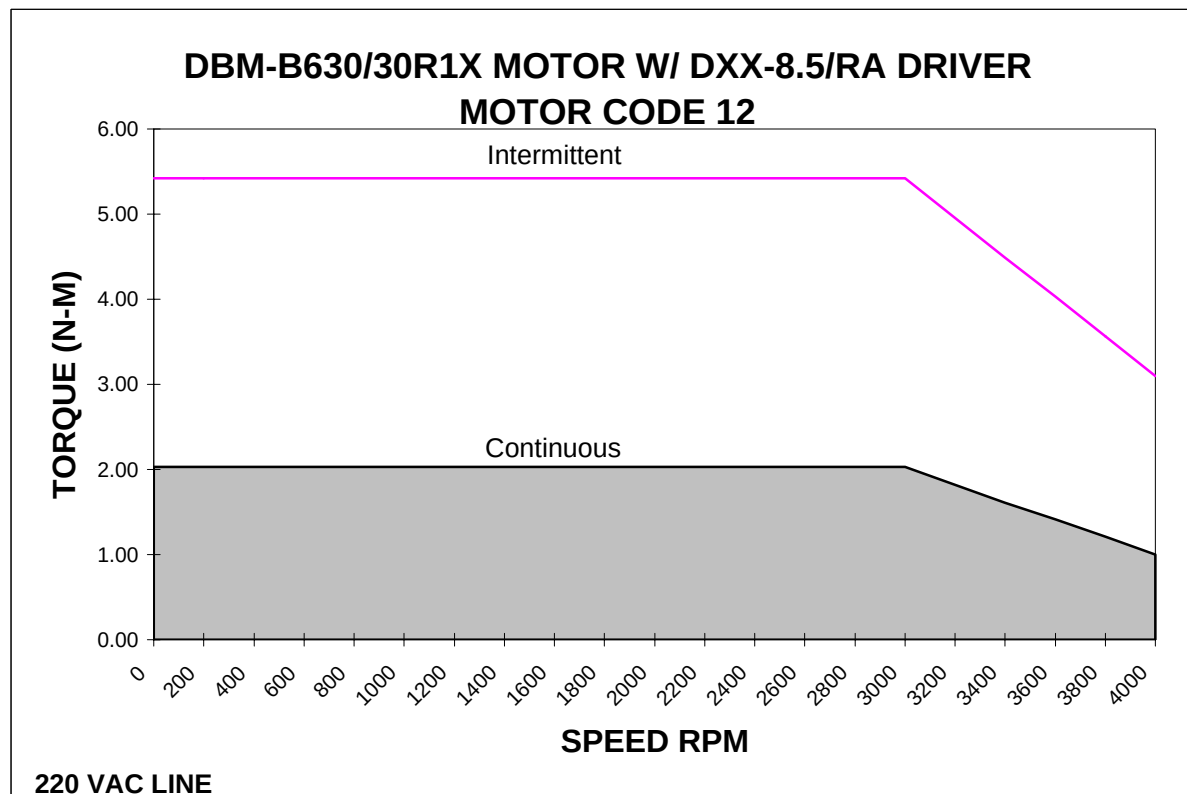


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B630HRA

6/1/03

POWER OUTPUT	WATTS	630
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.03
	LB-IN	17.97
	LB-FT	1.50
PEAK TORQUE	N-M	5.42
	LB-IN	47.97
	LB-FT	4.00
ROTOR INERTIA	KG-CM^2	5.649
	LB-IN-SEC^2	0.005000
	LB-FT-SEC^2	0.0004166
MOTOR WEIGHT	KG	6.4
	LBS	14.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

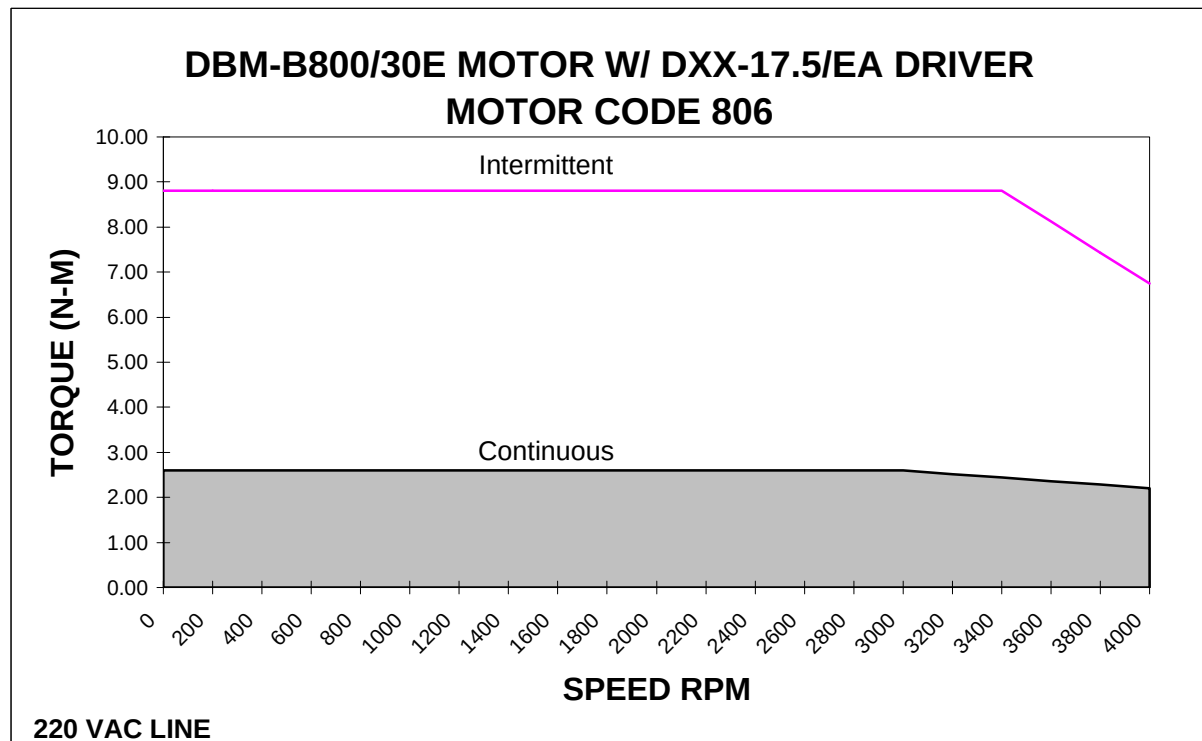


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B630HRA1X

6/1/03

POWER OUTPUT	WATTS	800
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.60
	LB-IN	23.01
	LB-FT	1.92
PEAK TORQUE	N-M	8.81
	LB-IN	77.98
	LB-FT	6.50
ROTOR INERTIA	KG-CM^2	7.683
	LB-IN-SEC^2	0.006800
	LB-FT-SEC^2	0.0005667
MOTOR WEIGHT	KG	8.6
	LBS	19.0
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

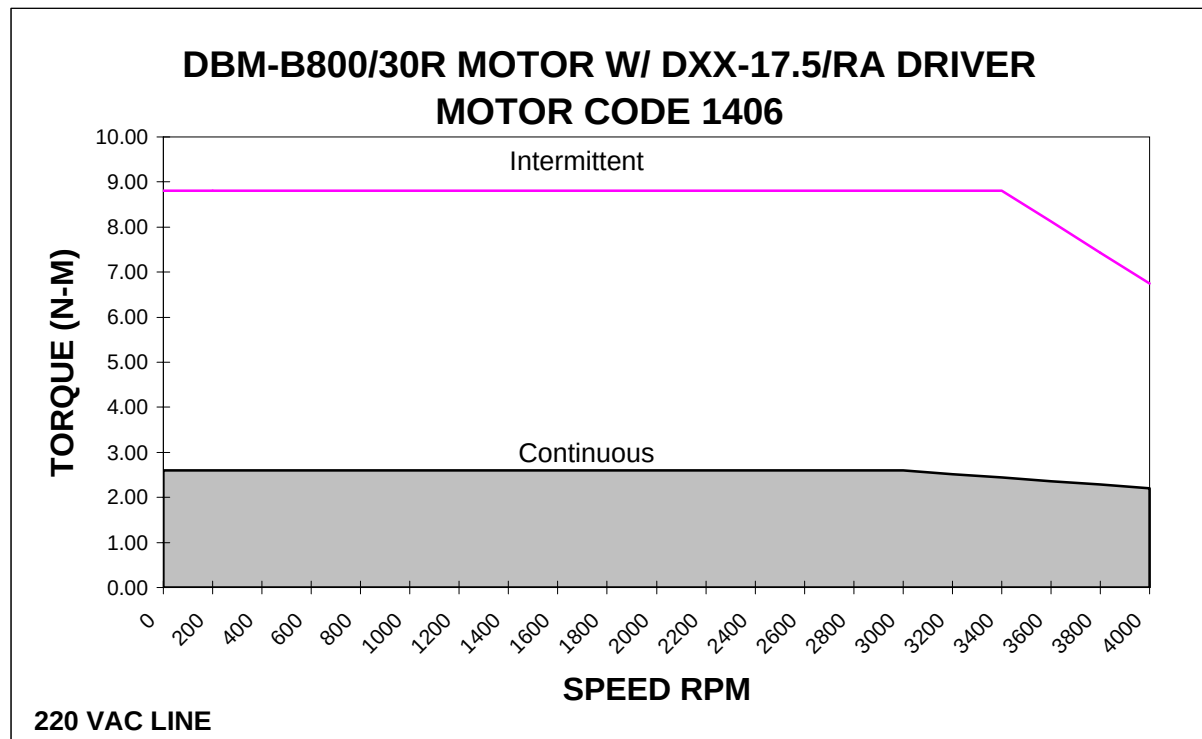


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B800HEA

6/1/03

POWER OUTPUT	WATTS	800
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	2.60
	LB-IN	23.01
	LB-FT	1.92
PEAK TORQUE	N-M	8.81
	LB-IN	77.98
	LB-FT	6.50
ROTOR INERTIA	KG-CM^2	7.683
	LB-IN-SEC^2	0.006800
	LB-FT-SEC^2	0.0005667
MOTOR WEIGHT	KG	8.6
	LBS	19.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.111
	LB-IN-SEC^2	0.000098
	LB-FT-SEC^2	0.0000082

*Specifications subject to change without notice

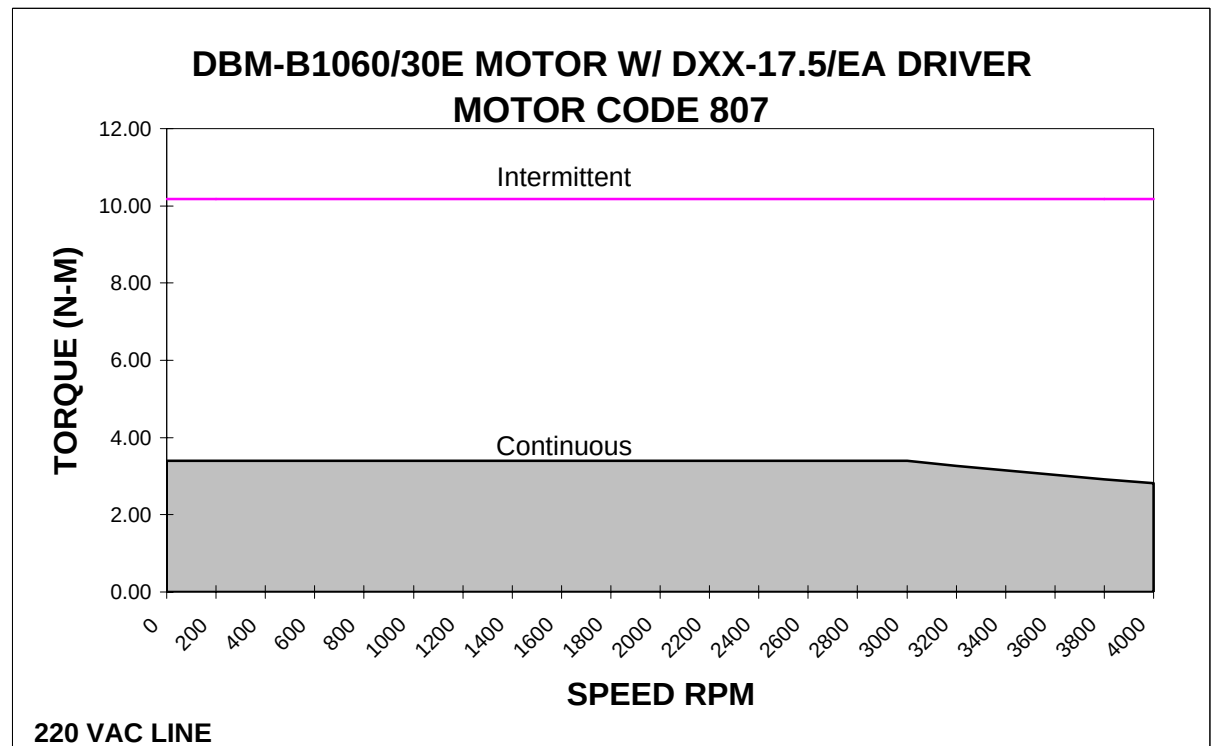


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B800HRA

6/1/03

POWER OUTPUT	WATTS	1060
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	3.39
	LB-IN	30.00
	LB-FT	2.50
PEAK TORQUE	N-M	10.17
	LB-IN	90.01
	LB-FT	7.50
ROTOR INERTIA	KG-CM^2	8.926
	LB-IN-SEC^2	0.007900
	LB-FT-SEC^2	0.0006583
MOTOR WEIGHT	KG	13.6
	LBS	30.0
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.132
	LB-IN-SEC^2	0.000117
	LB-FT-SEC^2	0.0000097

*Specifications subject to change without notice

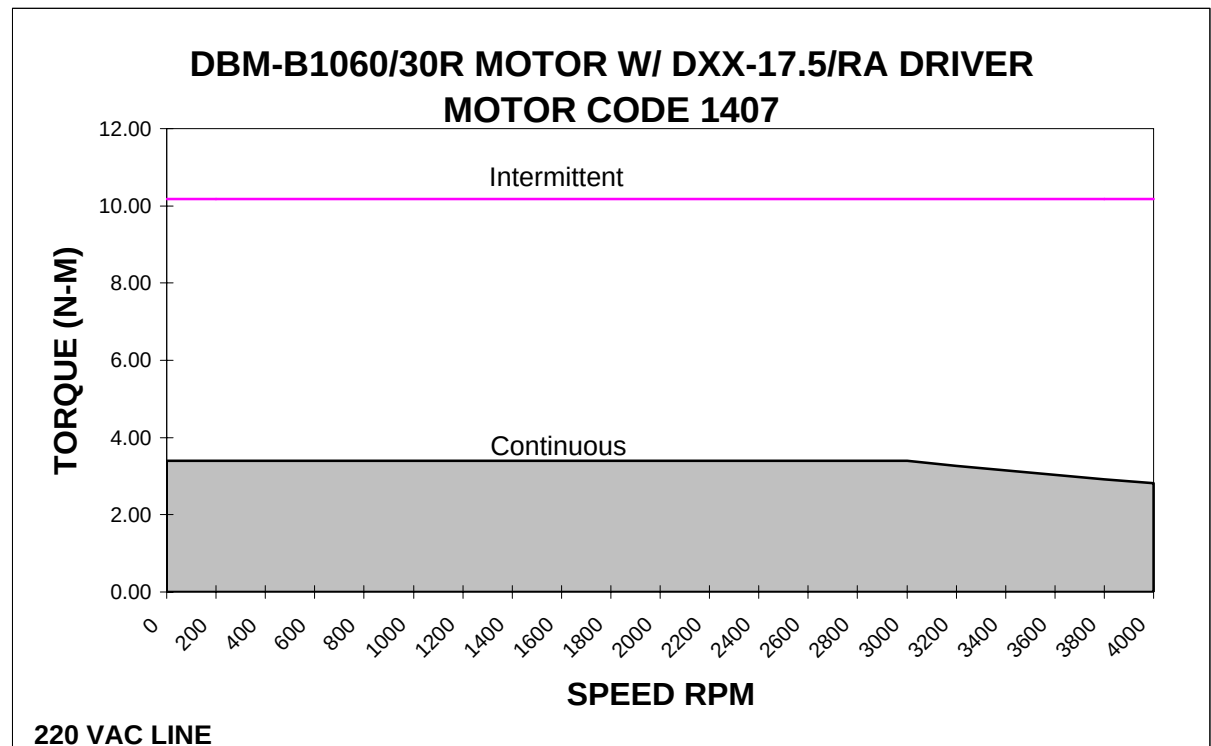


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1060HEA

6/1/03

POWER OUTPUT	WATTS	1060
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	3.39
	LB-IN	30.00
	LB-FT	2.50
PEAK TORQUE	N-M	10.17
	LB-IN	90.01
	LB-FT	7.50
ROTOR INERTIA	KG-CM^2	8.926
	LB-IN-SEC^2	0.007900
	LB-FT-SEC^2	0.0006583
MOTOR WEIGHT	KG	13.6
	LBS	30.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.132
	LB-IN-SEC^2	0.000117
	LB-FT-SEC^2	0.0000097

*Specifications subject to change without notice

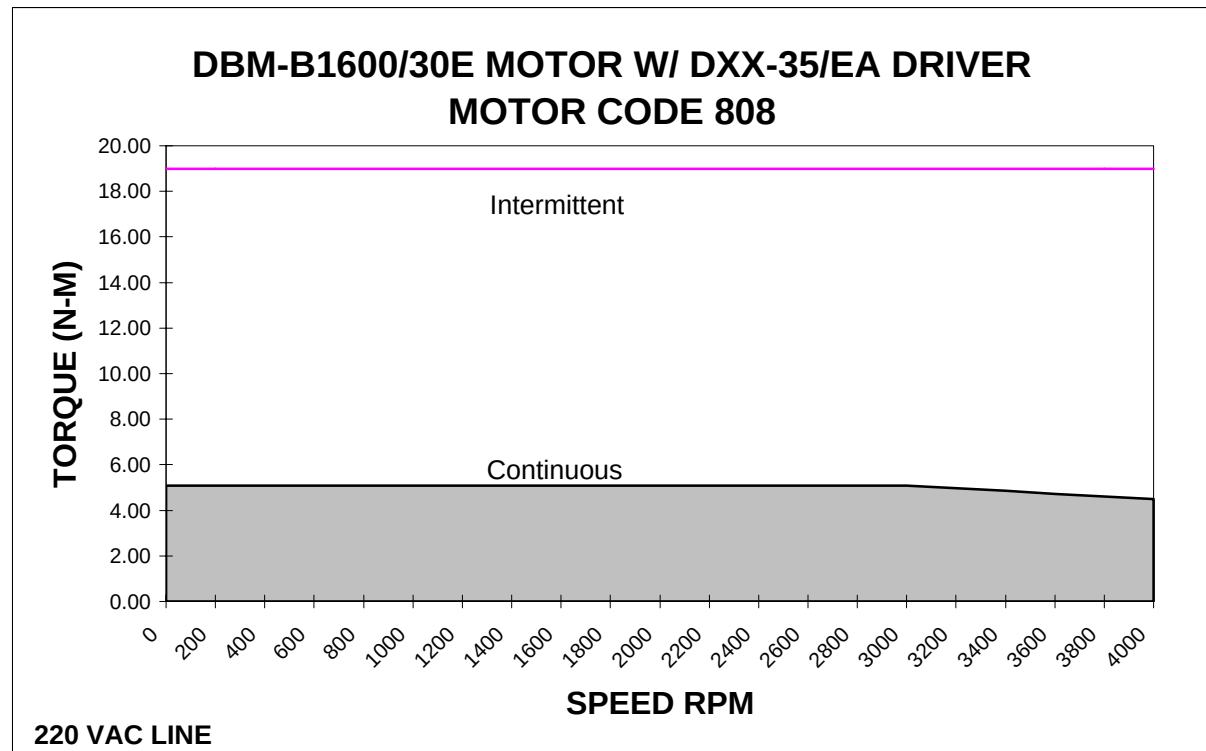


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1060HRA

6/1/03

POWER OUTPUT	WATTS	1600
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	5.08
	LB-IN	44.96
	LB-FT	3.75
PEAK TORQUE	N-M	18.98
	LB-IN	167.99
	LB-FT	14.00
ROTOR INERTIA	KG-CM^2	13.219
	LB-IN-SEC^2	0.011700
	LB-FT-SEC^2	0.0009750
MOTOR WEIGHT	KG	18.6
	LBS	41.0
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.132
	LB-IN-SEC^2	0.000117
	LB-FT-SEC^2	0.0000097

*Specifications subject to change without notice

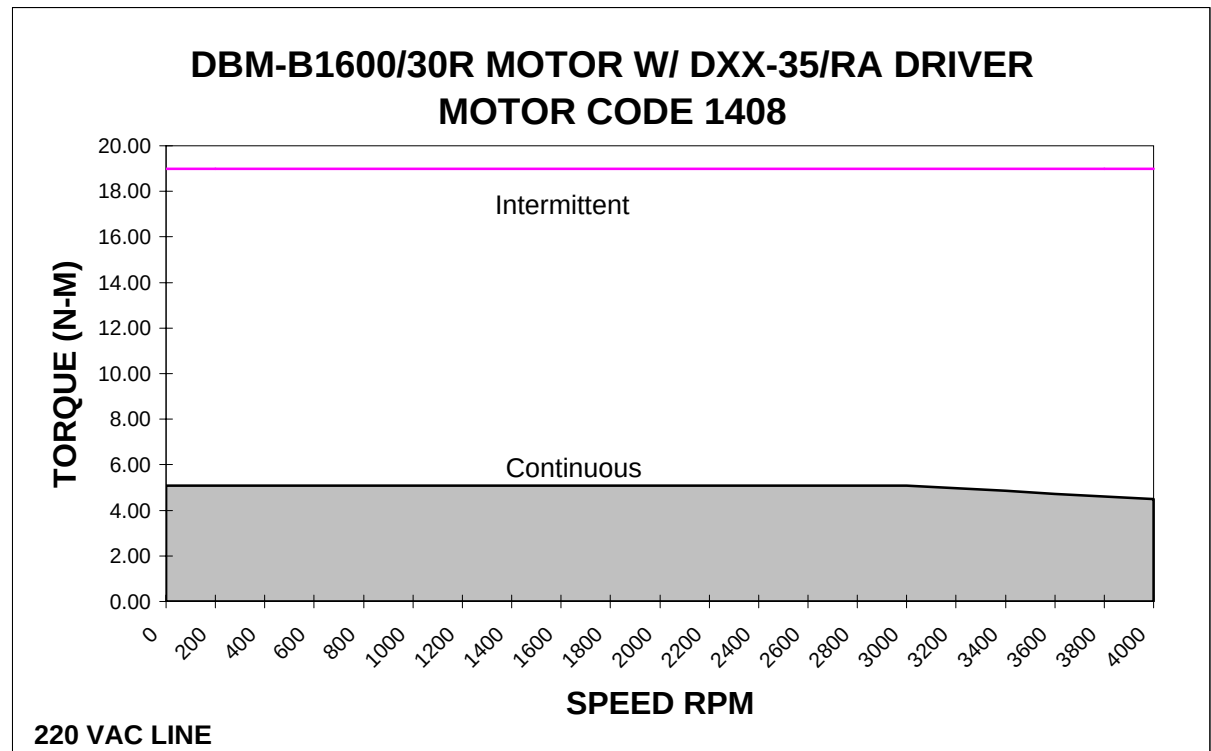


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1600HEA

6/1/03

POWER OUTPUT	WATTS	1600
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	5.08
	LB-IN	44.96
	LB-FT	3.75
PEAK TORQUE	N-M	18.98
	LB-IN	167.99
	LB-FT	14.00
ROTOR INERTIA	KG-CM^2	13.219
	LB-IN-SEC^2	0.011700
	LB-FT-SEC^2	0.0009750
MOTOR WEIGHT	KG	18.6
	LBS	41.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.132
	LB-IN-SEC^2	0.000117
	LB-FT-SEC^2	0.0000097

*Specifications subject to change without notice

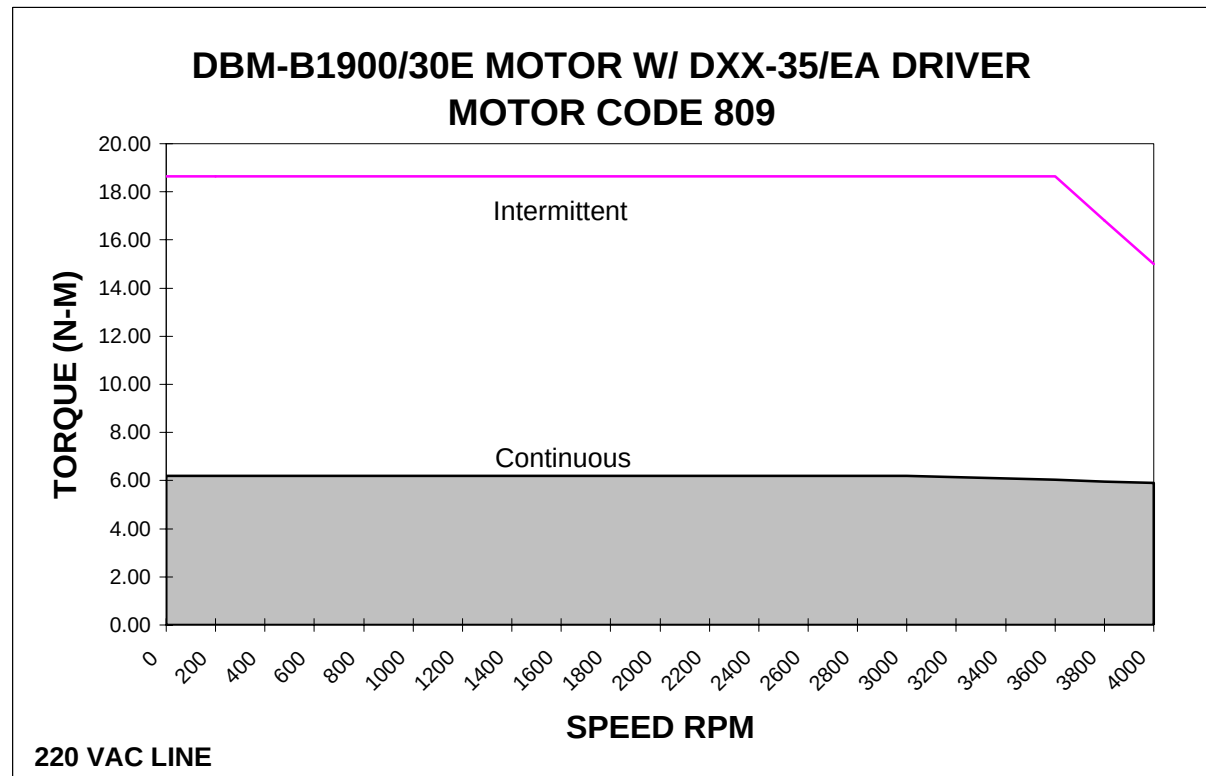


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1600HRA

6/1/03

POWER OUTPUT	WATTS	1900
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	6.21
	LB-IN	54.96
	LB-FT	4.58
PEAK TORQUE	N-M	18.64
	LB-IN	164.98
	LB-FT	13.75
ROTOR INERTIA	KG-CM^2	21.241
	LB-IN-SEC^2	0.018800
	LB-FT-SEC^2	0.0015667
MOTOR WEIGHT	KG	15.0
	LBS	33.1
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

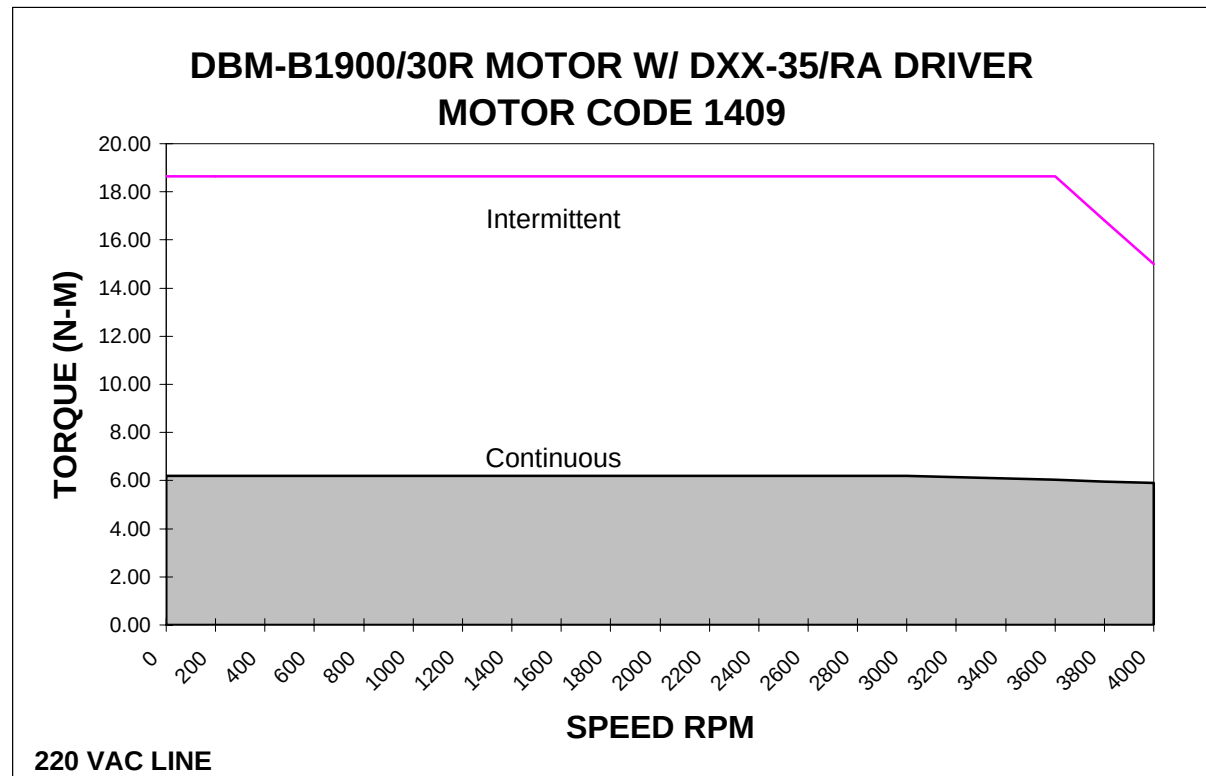


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1900HEA

6/1/03

POWER OUTPUT	WATTS	1900
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	6.21
	LB-IN	54.96
	LB-FT	4.58
PEAK TORQUE	N-M	18.64
	LB-IN	164.98
	LB-FT	13.75
ROTOR INERTIA	KG-CM^2	21.241
	LB-IN-SEC^2	0.018800
	LB-FT-SEC^2	0.0015667
MOTOR WEIGHT	KG	15.0
	LBS	33.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

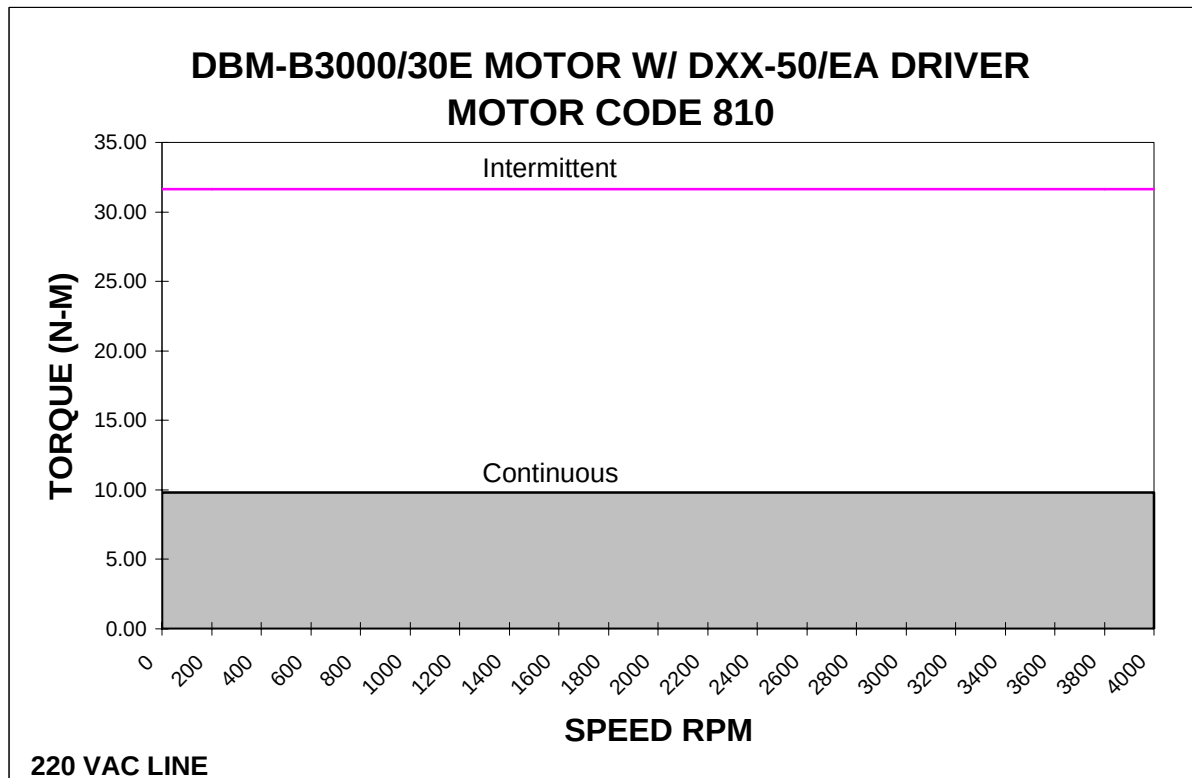


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B1900HRA

6/1/03

POWER OUTPUT	WATTS	3000
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	9.83
	LB-IN	87.00
	LB-FT	7.25
PEAK TORQUE	N-M	31.64
	LB-IN	280.04
	LB-FT	23.34
ROTOR INERTIA	KG-CM^2	43.612
	LB-IN-SEC^2	0.038600
	LB-FT-SEC^2	0.0032166
MOTOR WEIGHT	KG	23.6
	LBS	52.0
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.0010178
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

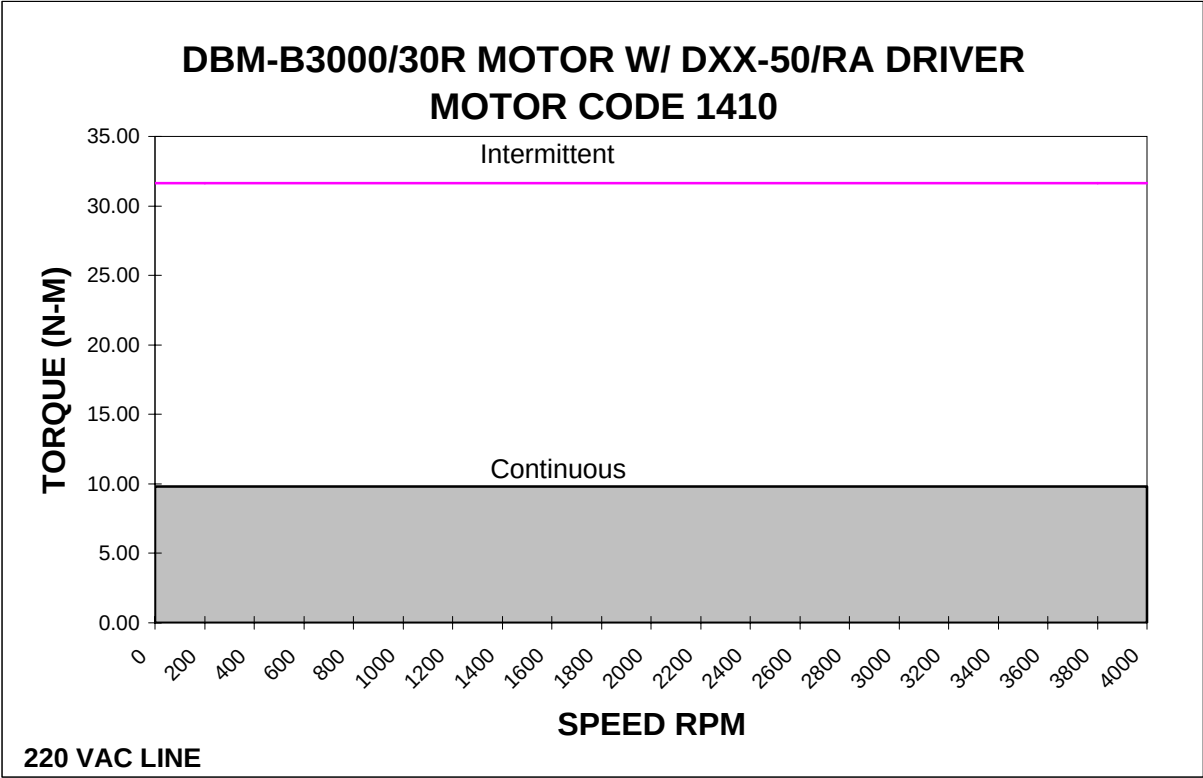


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B3000HEA

6/1/03

POWER OUTPUT	WATTS	3000
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	9.83
	LB-IN	87.00
	LB-FT	7.25
PEAK TORQUE	N-M	31.64
	LB-IN	280.04
	LB-FT	23.34
ROTOR INERTIA	KG-CM^2	43.612
	LB-IN-SEC^2	0.038600
	LB-FT-SEC^2	0.0032167
MOTOR WEIGHT	KG	23.6
	LBS	52.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.0010178
	LB-FT-SEC^2	0.0000848

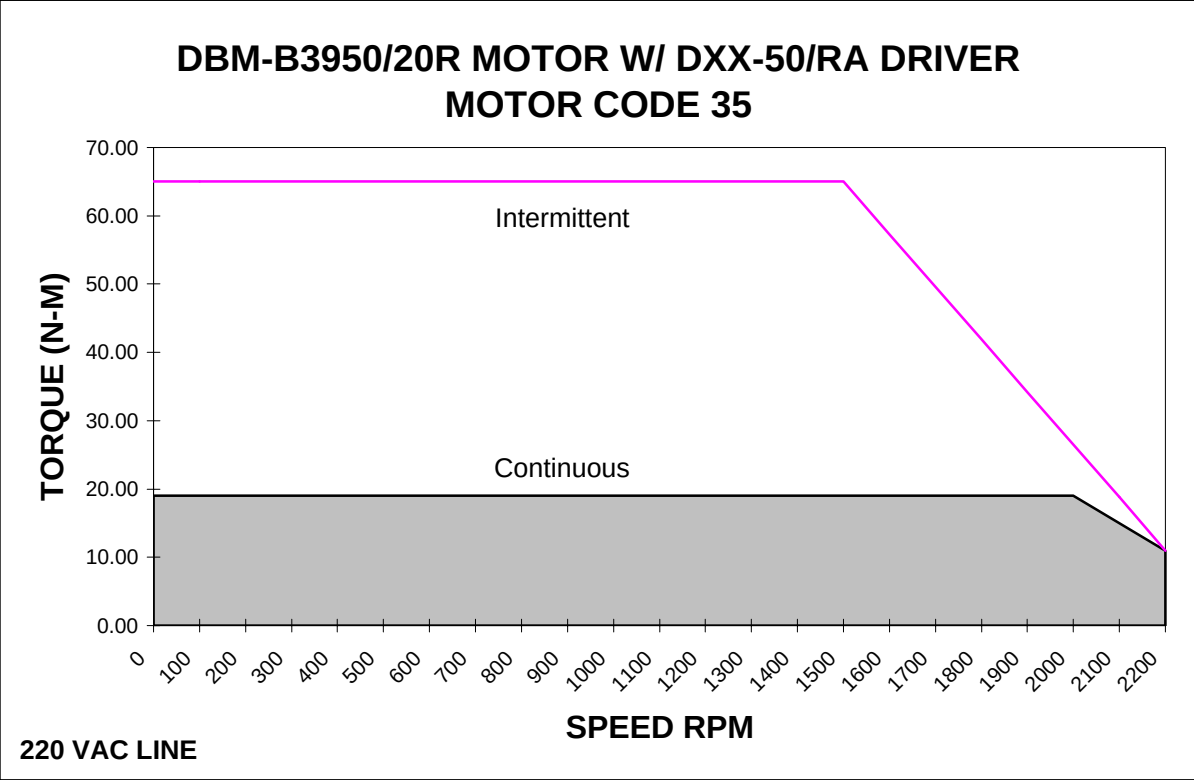
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B3000HRA

POWER OUTPUT	WATTS	3950
RATED SPEED	RPM	2000
MAX SPEED	RPM	2200
RATED TORQUE	N-M	19.000
	LB-IN	168.16
	LB-FT	14.01
PEAK TORQUE	N-M	65.00
	LB-IN	575.30
	LB-FT	47.94
ROTOR INERTIA	KG-CM^2	75.400
	LB-IN-SEC^2	0.066735
	LB-FT-SEC^2	0.0055612
MOTOR WEIGHT	KG	36.0
	LBS	79.4
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

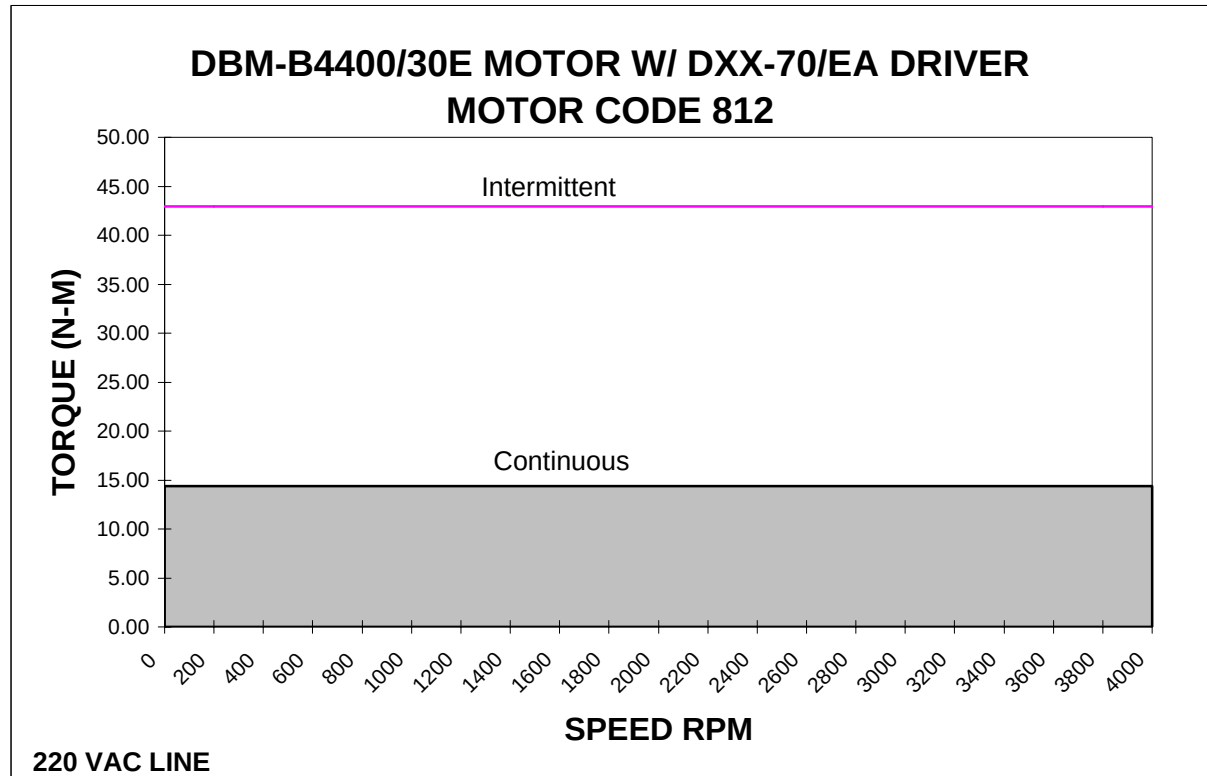
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B3950MRA

POWER OUTPUT	WATTS	4400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	14.36
	LB-IN	127.10
	LB-FT	10.59
PEAK TORQUE	N-M	42.93
	LB-IN	379.96
	LB-FT	31.66
ROTOR INERTIA	KG-CM^2	65.983
	LB-IN-SEC^2	0.058400
	LB-FT-SEC^2	0.0048666
MOTOR WEIGHT	KG	32.3
	LBS	71.2
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

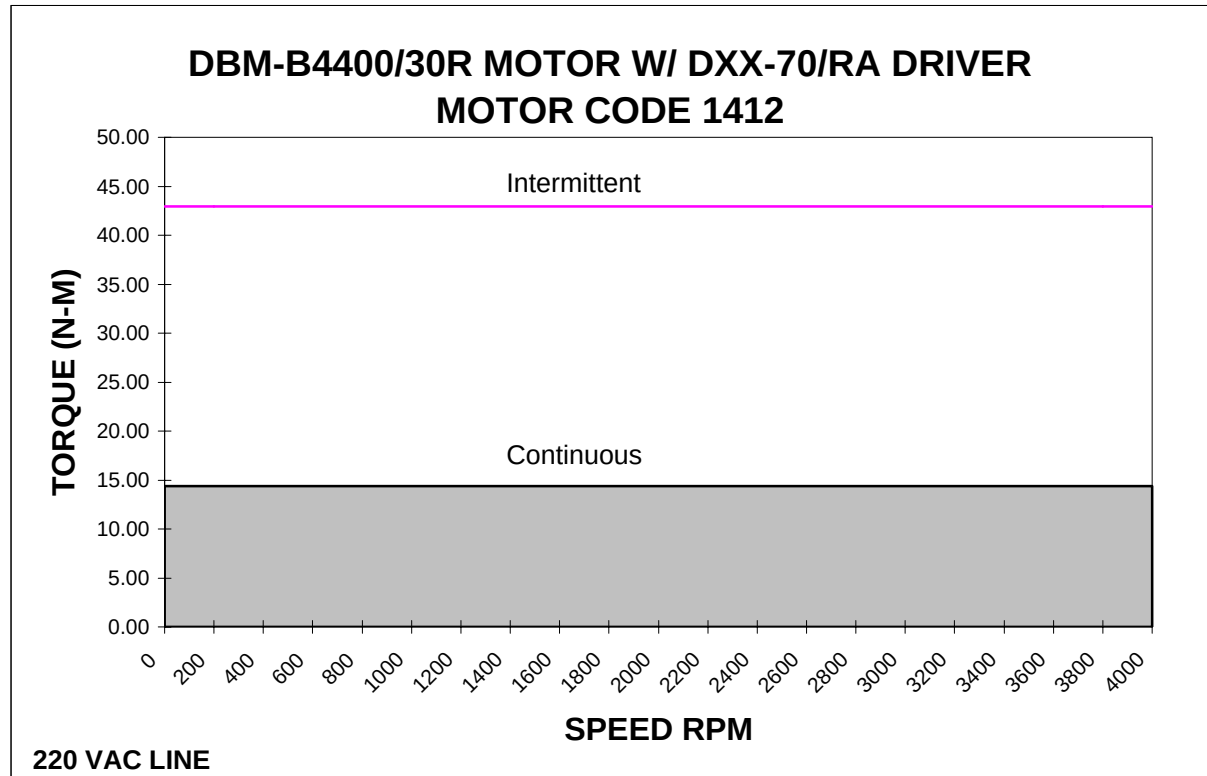


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B4400HEA

6/1/03

POWER OUTPUT	WATTS	4400
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	14.36
	LB-IN	127.10
	LB-FT	10.59
PEAK TORQUE	N-M	42.93
	LB-IN	379.96
	LB-FT	31.66
ROTOR INERTIA	KG-CM^2	65.983
	LB-IN-SEC^2	0.058400
	LB-FT-SEC^2	0.0048667
MOTOR WEIGHT	KG	32.3
	LBS	71.2
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

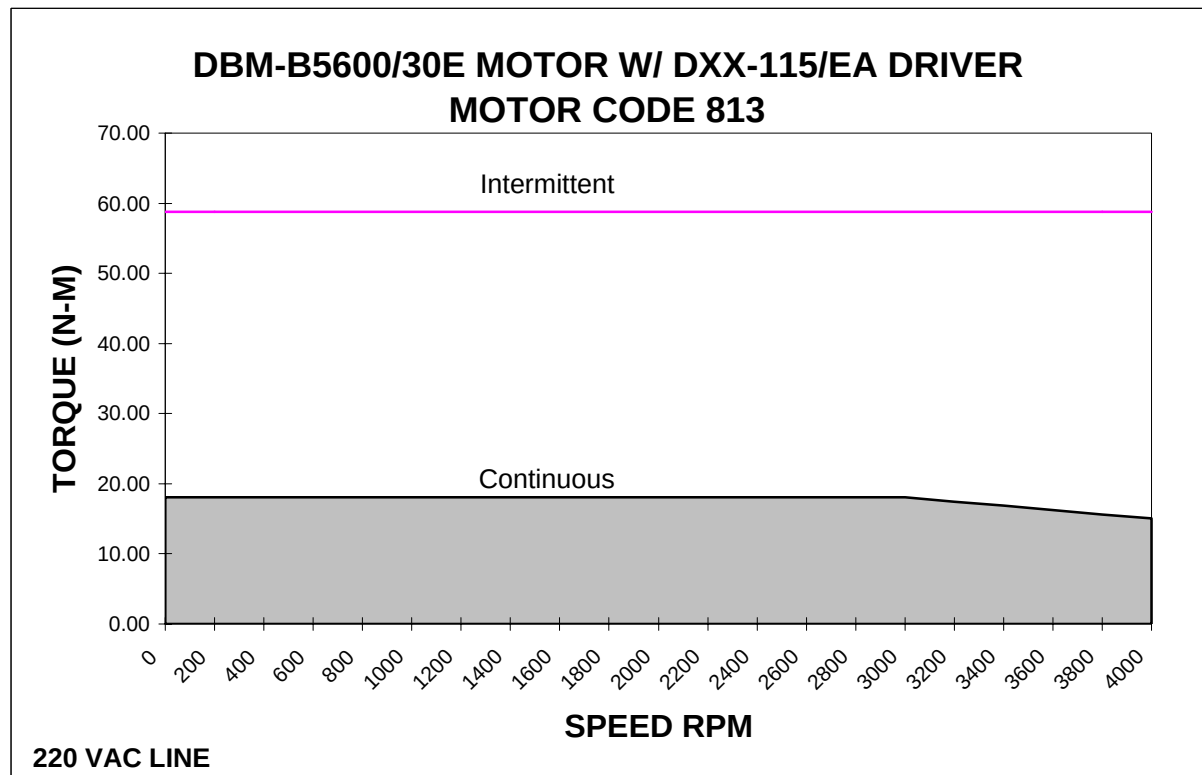


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B4400HRA

6/1/03

POWER OUTPUT	WATTS	5600
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	18.04
	LB-IN	159.67
	LB-FT	13.31
PEAK TORQUE	N-M	58.75
	LB-IN	519.98
	LB-FT	43.33
ROTOR INERTIA	KG-CM^2	75.248
	LB-IN-SEC^2	0.066600
	LB-FT-SEC^2	0.0055500
MOTOR WEIGHT	KG	36.0
	LBS	79.4
ENCODER	PPR	8192
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

*Specifications subject to change without notice

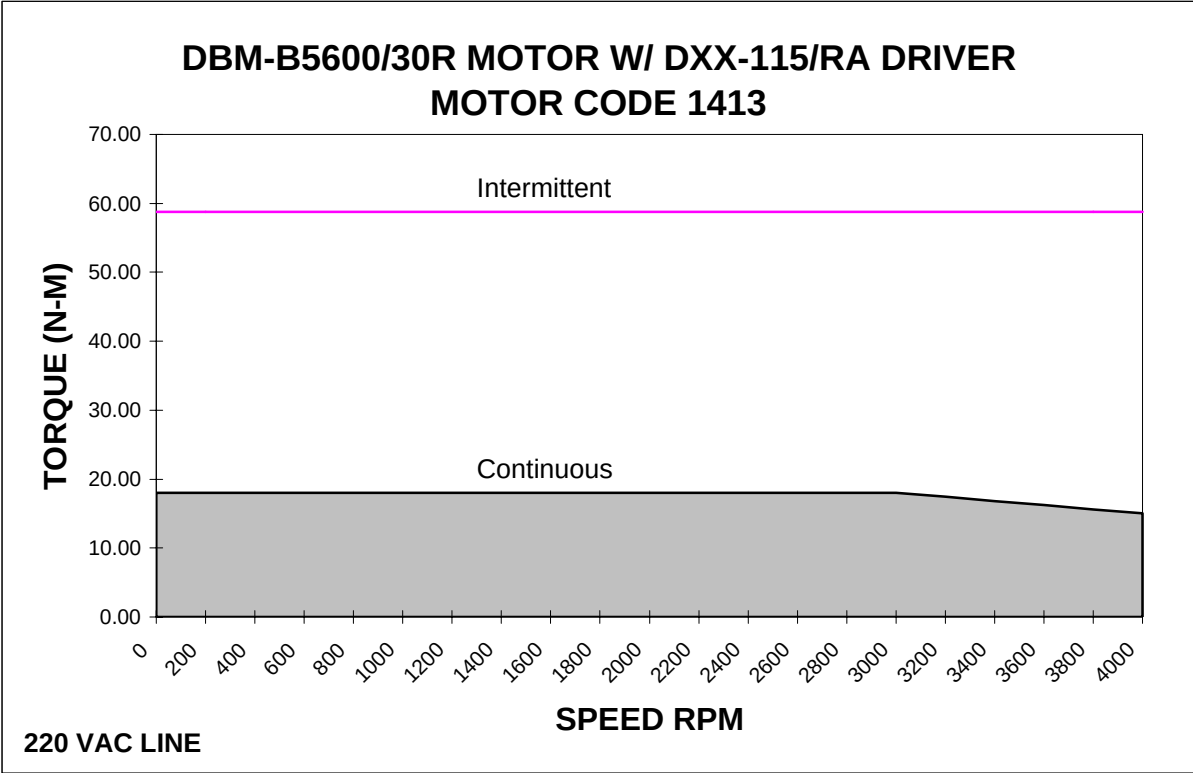


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B5600HEA

6/1/03

POWER OUTPUT	WATTS	5600
RATED SPEED	RPM	3000
MAX SPEED	RPM	4000
RATED TORQUE	N-M	18.04
	LB-IN	159.67
	LB-FT	13.31
PEAK TORQUE	N-M	58.75
	LB-IN	519.98
	LB-FT	43.33
ROTOR INERTIA	KG-CM^2	75.248
	LB-IN-SEC^2	0.066600
	LB-FT-SEC^2	0.0055500
MOTOR WEIGHT	KG	36.0
	LBS	79.4
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	1.150
	LB-IN-SEC^2	0.001018
	LB-FT-SEC^2	0.0000848

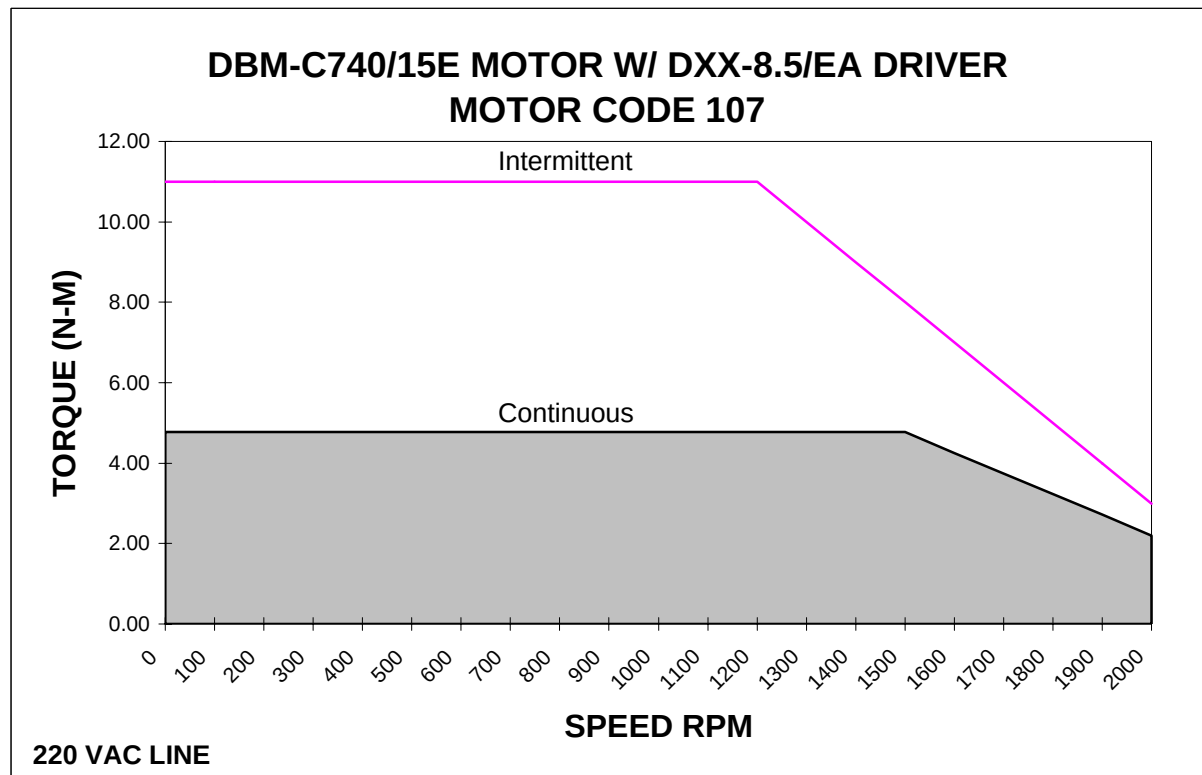
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
B5600HRA

POWER OUTPUT	WATTS	740
RATED SPEED	RPM	1500
MAX SPEED	RPM	2000
RATED TORQUE	N-M	4.77
	LB-IN	42.22
	LB-FT	3.52
PEAK TORQUE	N-M	11.00
	LB-IN	97.36
	LB-FT	8.11
ROTOR INERTIA	KG-CM^2	5.100
	LB-IN-SEC^2	0.004514
	LB-FT-SEC^2	0.0003762
MOTOR WEIGHT	KG	6.0
	LBS	13.2
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

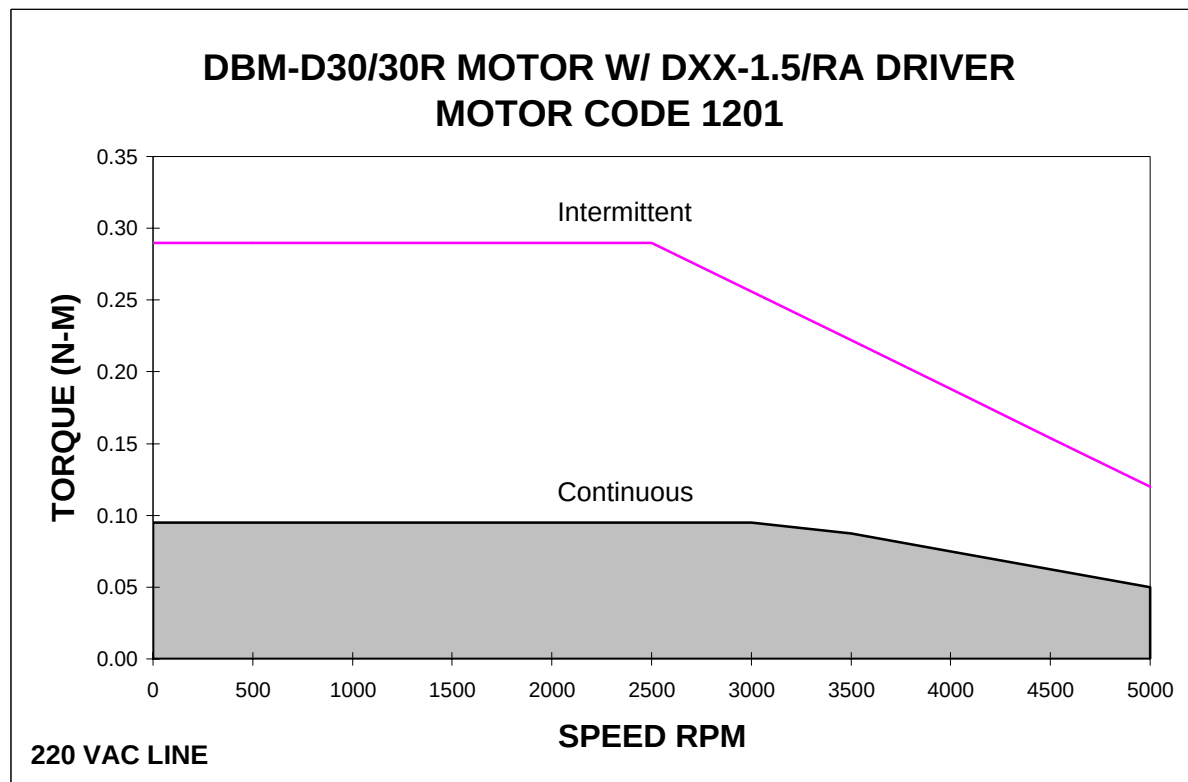


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
C740LEA

6/1/03

POWER OUTPUT	WATTS	30
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.095
	LB-IN	0.84
	LB-FT	0.07
PEAK TORQUE	N-M	0.29
	LB-IN	2.57
	LB-FT	0.21
ROTOR INERTIA	KG-CM^2	0.017
	LB-IN-SEC^2	0.000015
	LB-FT-SEC^2	0.0000013
MOTOR WEIGHT	KG	0.4
	LBS	0.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

*Specifications subject to change without notice

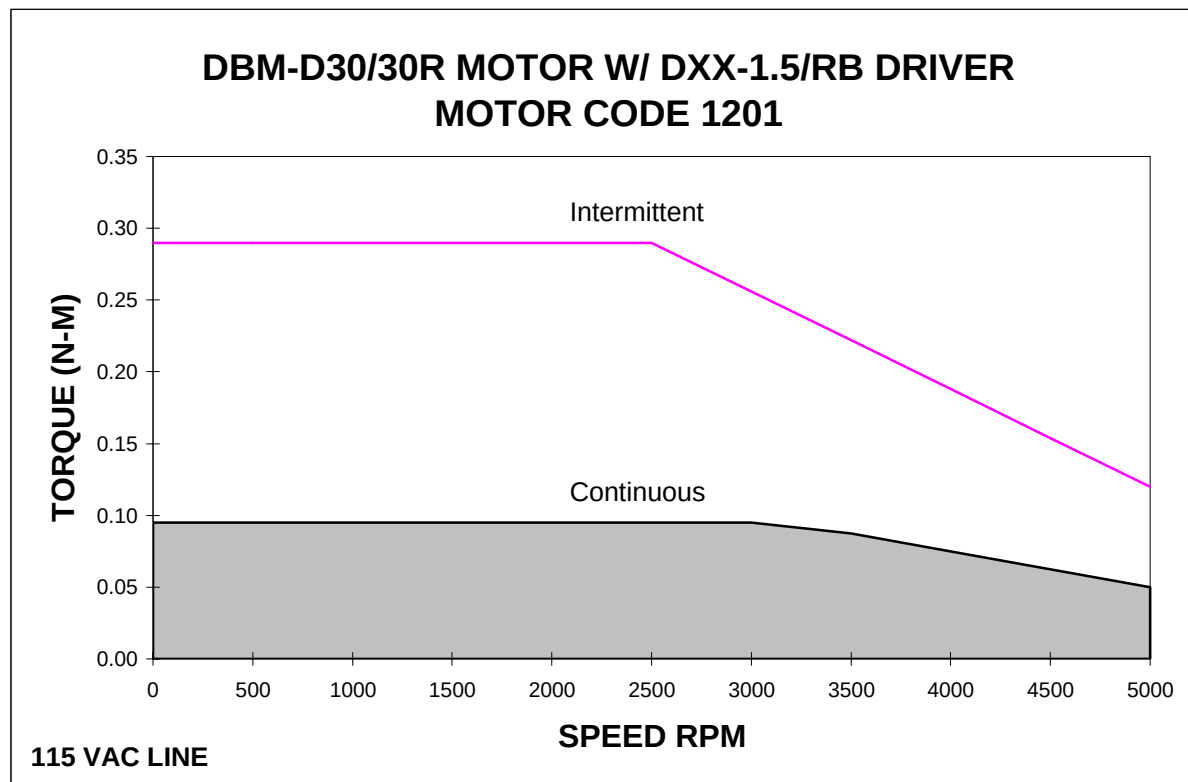


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D30HRA

6/1/03

POWER OUTPUT	WATTS	30
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.095
	LB-IN	0.84
	LB-FT	0.07
PEAK TORQUE	N-M	0.29
	LB-IN	2.57
	LB-FT	0.21
ROTOR INERTIA	KG-CM^2	0.017
	LB-IN-SEC^2	0.000015
	LB-FT-SEC^2	0.0000013
MOTOR WEIGHT	KG	0.4
	LBS	0.9
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

*Specifications subject to change without notice

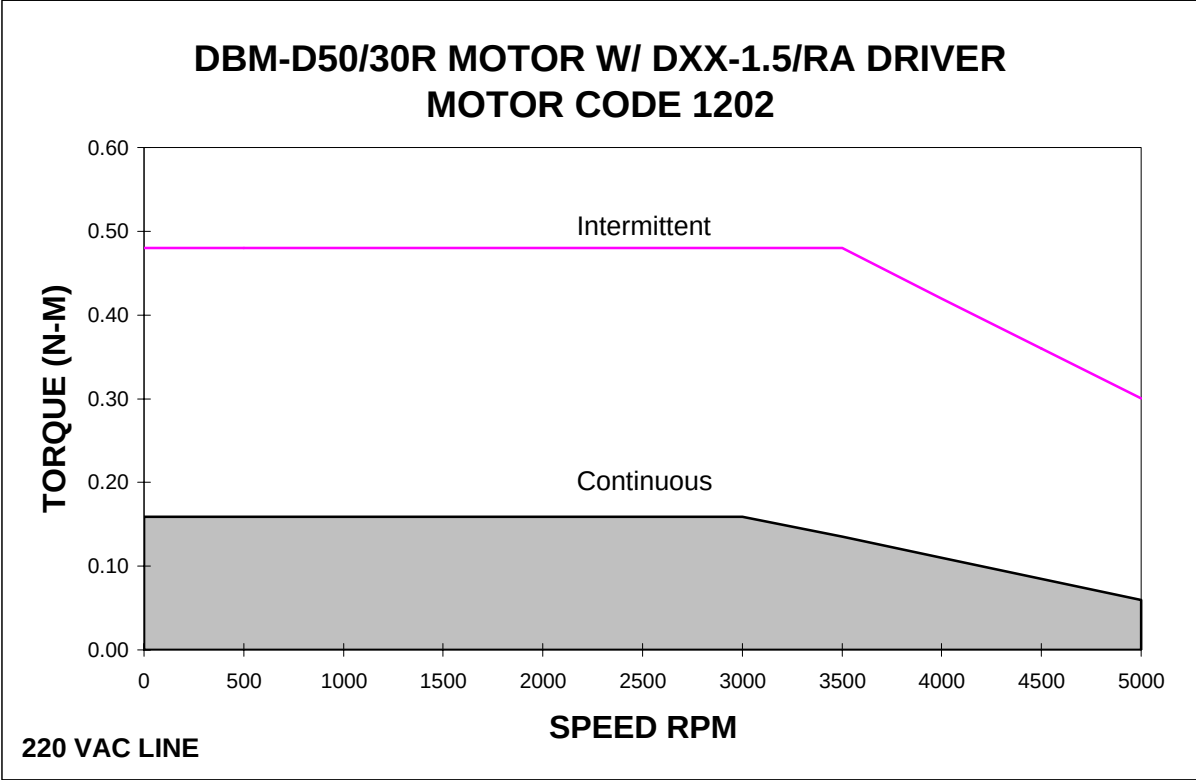


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D30HRB

6/1/03

POWER OUTPUT	WATTS	50
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.159
	LB-IN	1.41
	LB-FT	0.12
PEAK TORQUE	N-M	0.48
	LB-IN	4.25
	LB-FT	0.35
ROTOR INERTIA	KG-CM^2	0.026
	LB-IN-SEC^2	0.000023
	LB-FT-SEC^2	0.0000019
MOTOR WEIGHT	KG	0.5
	LBS	1.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

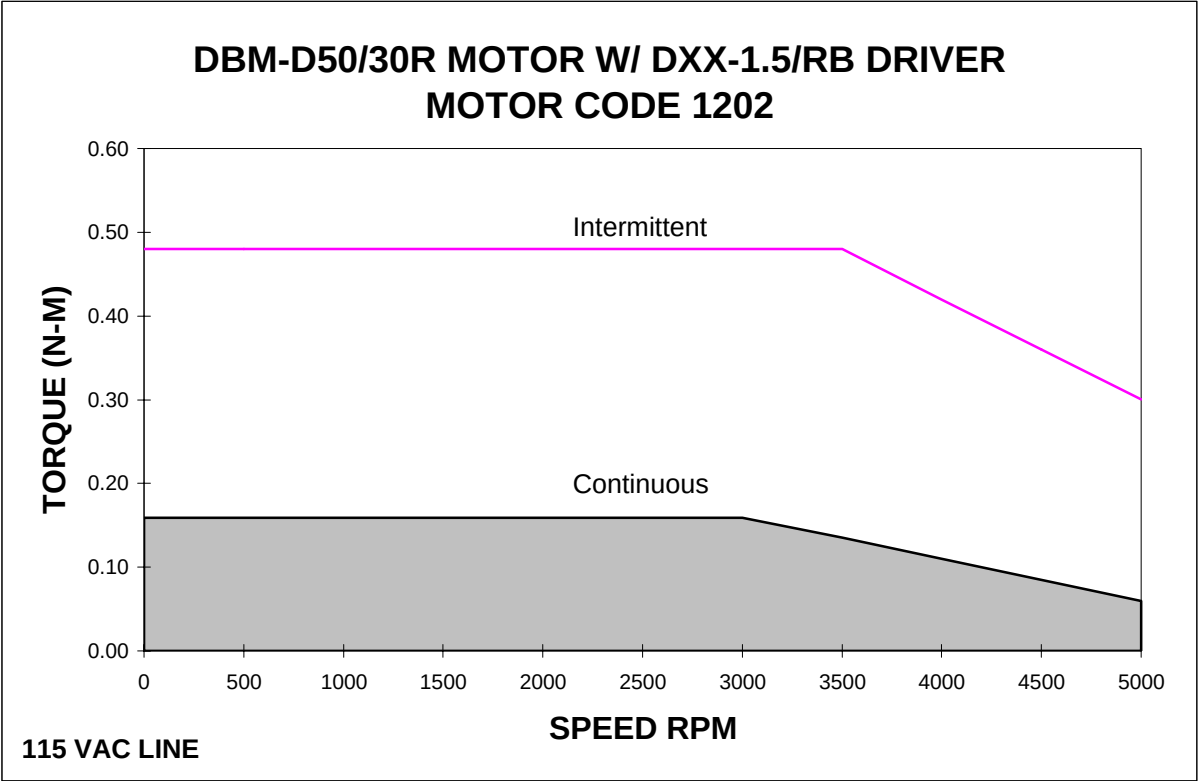
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D50HRA

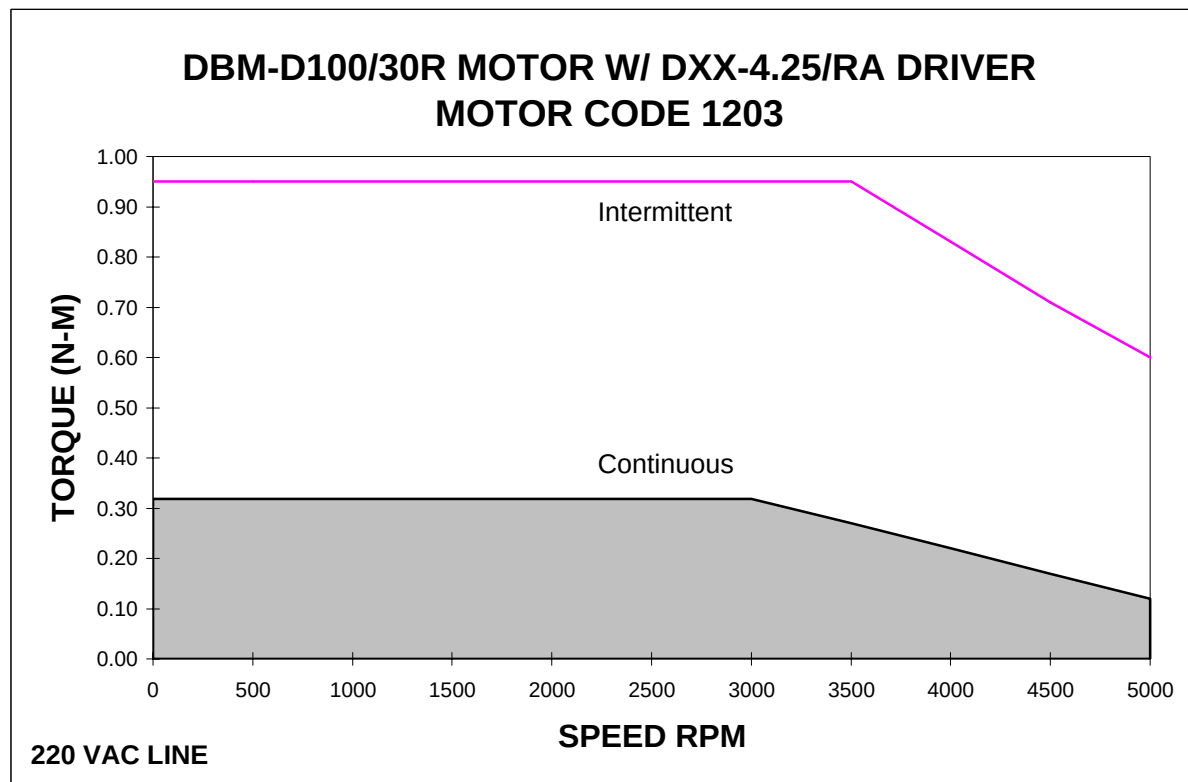
POWER OUTPUT	WATTS	50
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.159
	LB-IN	1.41
	LB-FT	0.12
PEAK TORQUE	N-M	0.48
	LB-IN	4.25
	LB-FT	0.35
ROTOR INERTIA	KG-CM^2	0.026
	LB-IN-SEC^2	0.000023
	LB-FT-SEC^2	0.0000019
MOTOR WEIGHT	KG	0.5
	LBS	1.1
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

*Specifications subject to change without notice



POWER OUTPUT	WATTS	100
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.318
	LB-IN	2.81
	LB-FT	0.23
PEAK TORQUE	N-M	0.95
	LB-IN	8.41
	LB-FT	0.70
ROTOR INERTIA	KG-CM^2	0.046
	LB-IN-SEC^2	0.000041
	LB-FT-SEC^2	0.0000034
MOTOR WEIGHT	KG	0.6
	LBS	1.3
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

*Specifications subject to change without notice

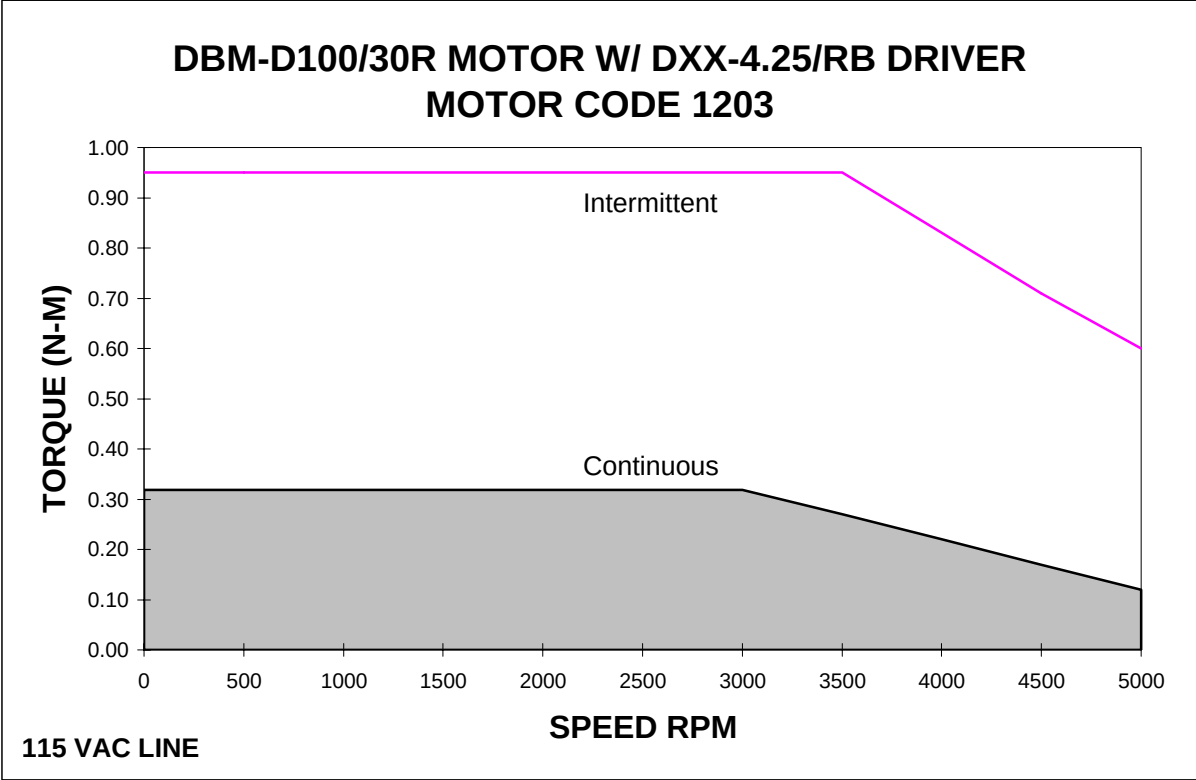


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D100HRA

6/1/03

POWER OUTPUT	WATTS	100
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.318
	LB-IN	2.81
	LB-FT	0.23
PEAK TORQUE	N-M	0.95
	LB-IN	8.41
	LB-FT	0.70
ROTOR INERTIA	KG-CM^2	0.046
	LB-IN-SEC^2	0.000041
	LB-FT-SEC^2	0.0000034
MOTOR WEIGHT	KG	0.6
	LBS	1.3
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.008
	LB-IN-SEC^2	0.000007
	LB-FT-SEC^2	0.0000006

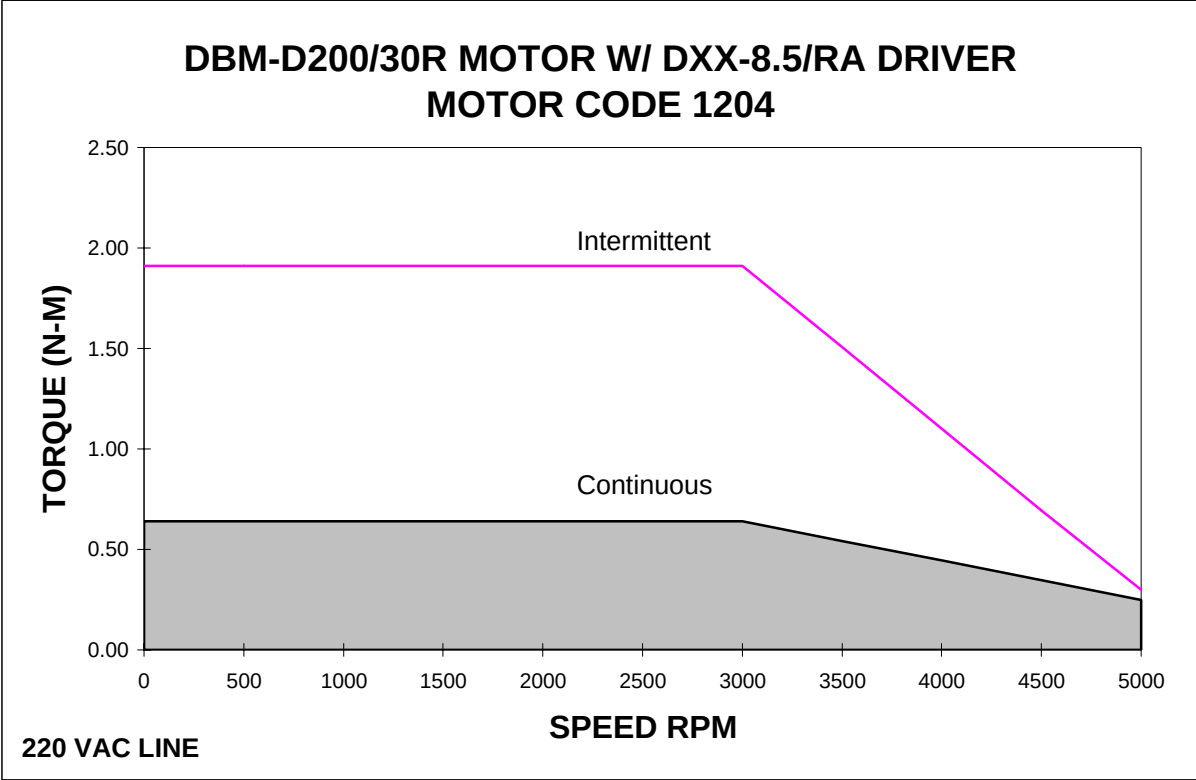
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D100HRB

POWER OUTPUT	WATTS	200
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.640
	LB-IN	5.66
	LB-FT	0.47
PEAK TORQUE	N-M	1.91
	LB-IN	16.90
	LB-FT	1.41
ROTOR INERTIA	KG-CM^2	0.230
	LB-IN-SEC^2	0.000204
	LB-FT-SEC^2	0.0000170
MOTOR WEIGHT	KG	1.2
	LBS	2.6
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.090
	LB-IN-SEC^2	0.000080
	LB-FT-SEC^2	0.0000066

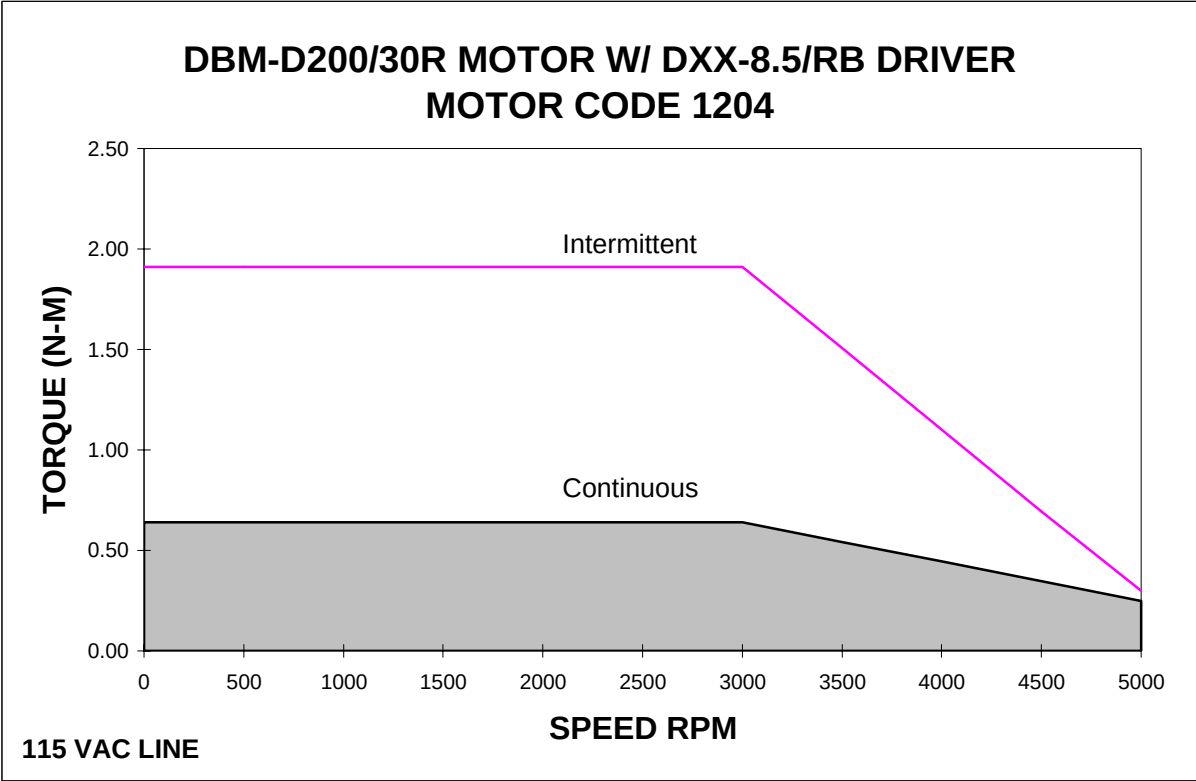
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D200HRA

POWER OUTPUT	WATTS	200
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	0.640
	LB-IN	5.66
	LB-FT	0.47
PEAK TORQUE	N-M	1.91
	LB-IN	16.90
	LB-FT	1.41
ROTOR INERTIA	KG-CM^2	0.230
	LB-IN-SEC^2	0.000204
	LB-FT-SEC^2	0.0000170
MOTOR WEIGHT	KG	1.2
	LBS	2.6
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.090
	LB-IN-SEC^2	0.000080
	LB-FT-SEC^2	0.0000066

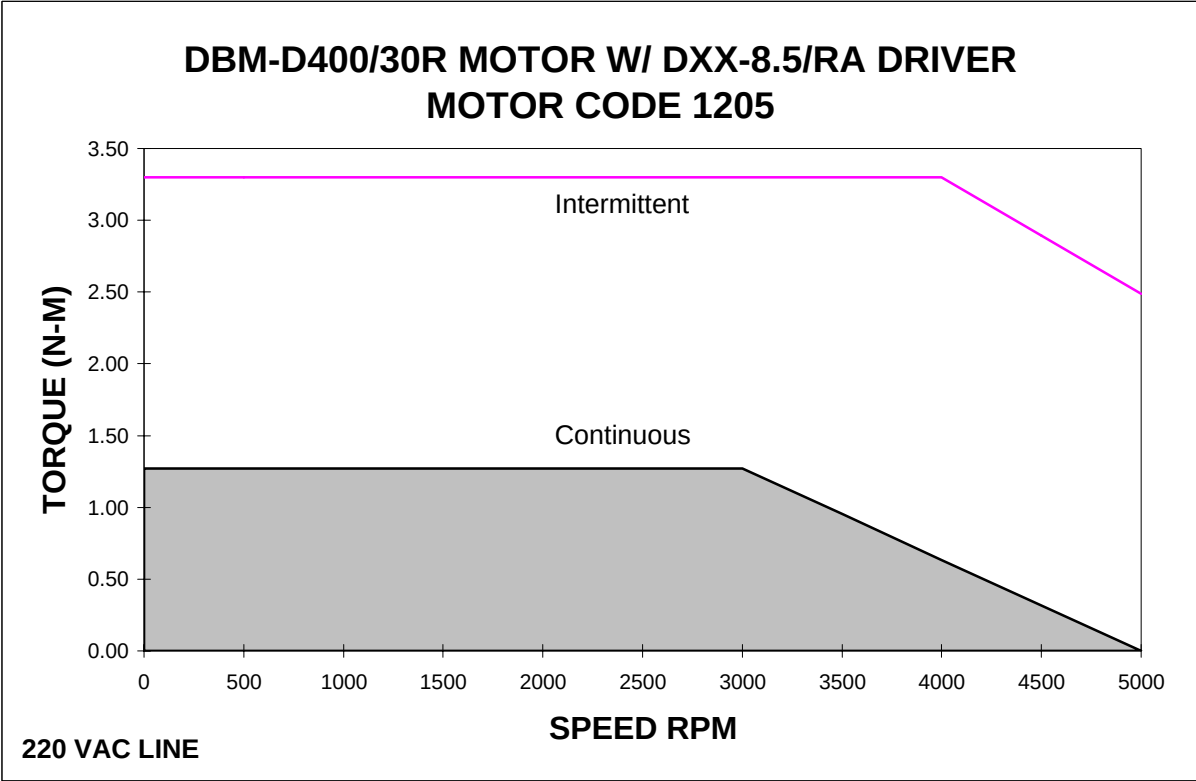
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D200HRB

POWER OUTPUT	WATTS	400
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	1.270
	LB-IN	11.24
	LB-FT	0.94
PEAK TORQUE	N-M	3.30
	LB-IN	29.21
	LB-FT	2.43
ROTOR INERTIA	KG-CM^2	0.390
	LB-IN-SEC^2	0.000345
	LB-FT-SEC^2	0.0000288
MOTOR WEIGHT	KG	1.7
	LBS	3.7
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.090
	LB-IN-SEC^2	0.000080
	LB-FT-SEC^2	0.0000066

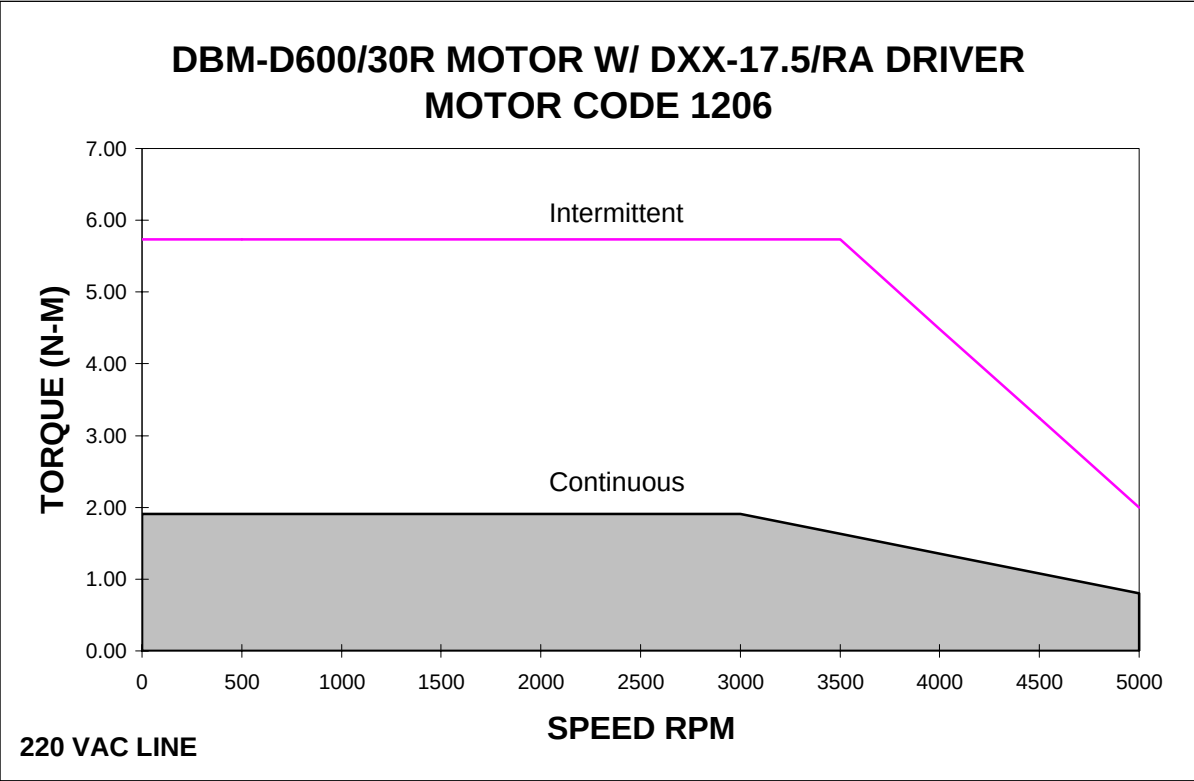
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D400HRA

POWER OUTPUT	WATTS	600
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	1.910
	LB-IN	16.90
	LB-FT	1.41
PEAK TORQUE	N-M	5.73
	LB-IN	50.71
	LB-FT	4.23
ROTOR INERTIA	KG-CM^2	1.040
	LB-IN-SEC^2	0.000920
	LB-FT-SEC^2	0.0000767
MOTOR WEIGHT	KG	2.7
	LBS	6.0
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.360
	LB-IN-SEC^2	0.000319
	LB-FT-SEC^2	0.0000266

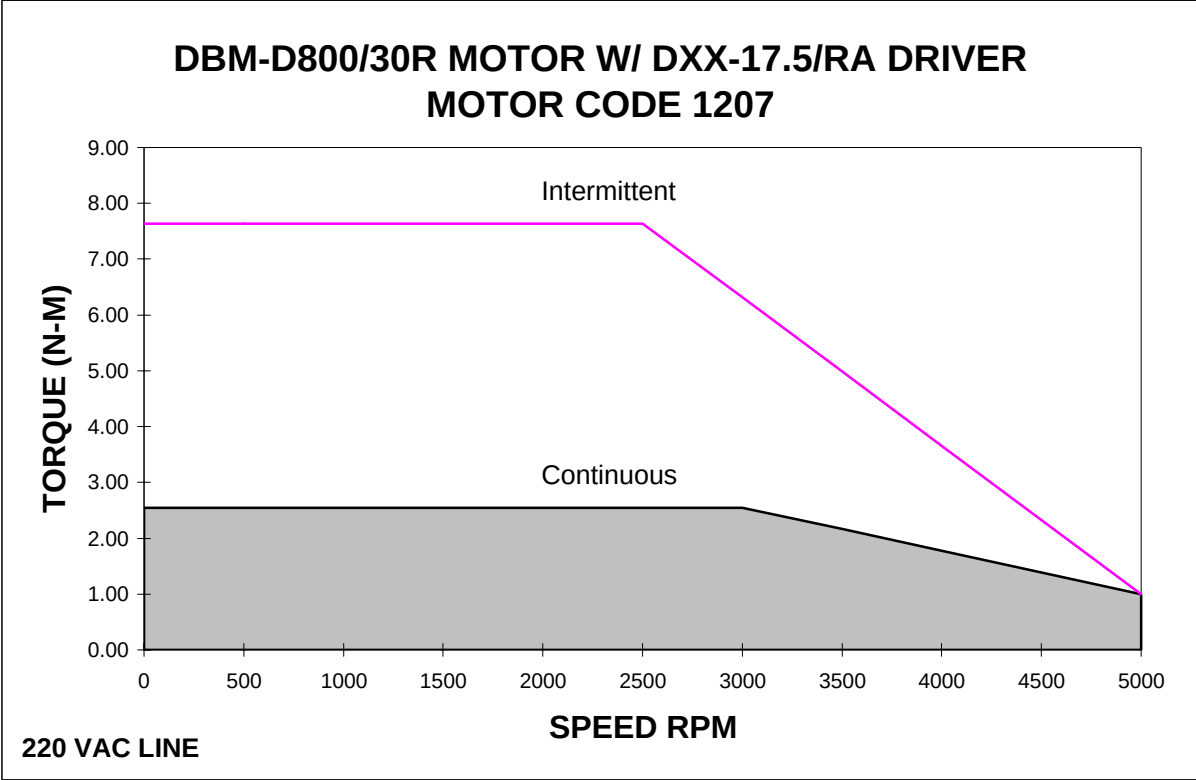
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D600HRA

POWER OUTPUT	WATTS	800
RATED SPEED	RPM	3000
MAX SPEED	RPM	5000
RATED TORQUE	N-M	2.550
	LB-IN	22.57
	LB-FT	1.88
PEAK TORQUE	N-M	7.64
	LB-IN	67.62
	LB-FT	5.63
ROTOR INERTIA	KG-CM^2	1.340
	LB-IN-SEC^2	0.001186
	LB-FT-SEC^2	0.0000988
MOTOR WEIGHT	KG	3.3
	LBS	7.3
RESOLVER	PPR	24000
RESOLVER TYPE	BRCT	2X
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	0.360
	LB-IN-SEC^2	0.000319
	LB-FT-SEC^2	0.0000266

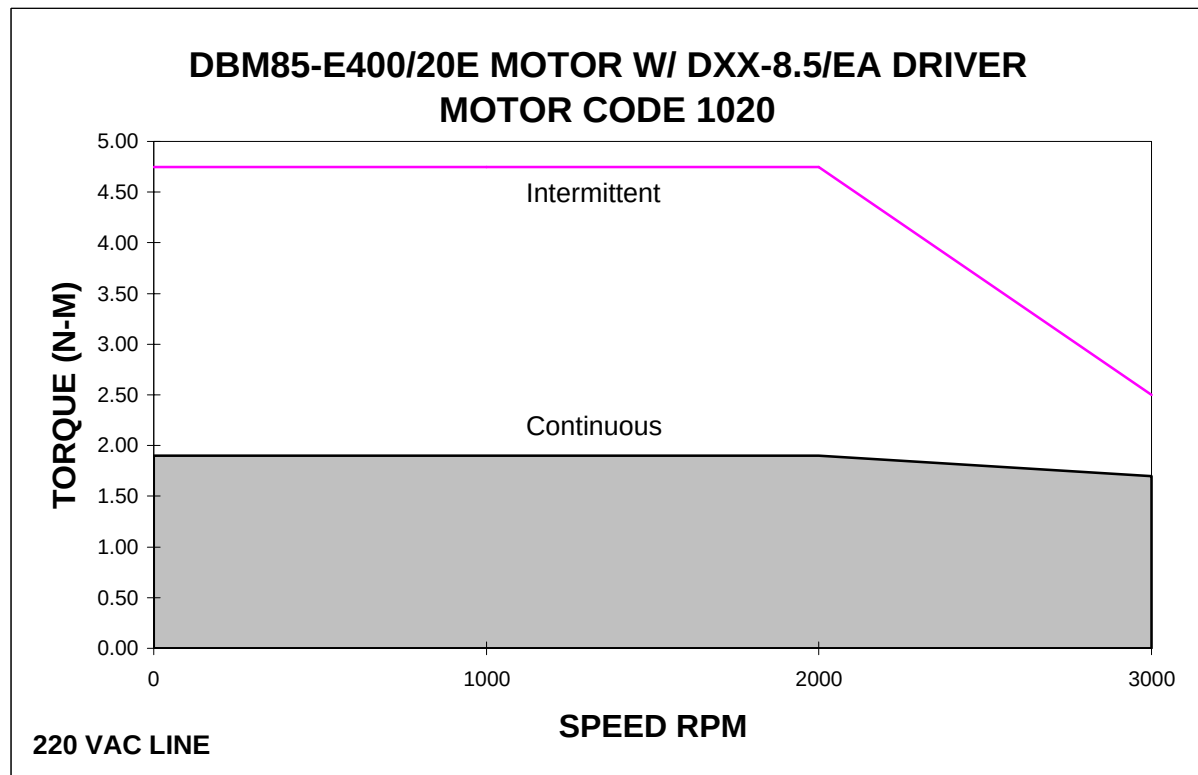
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
D800HRA

POWER OUTPUT	WATTS	400
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	1.90
	LB-IN	16.82
	LB-FT	1.40
PEAK TORQUE	N-M	4.75
	LB-IN	42.04
	LB-FT	3.50
ROTOR INERTIA	KG-CM^2	2.440
	LB-IN-SEC^2	0.002160
	LB-FT-SEC^2	0.0001800
MOTOR WEIGHT	KG	3.0
	LBS	6.6
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

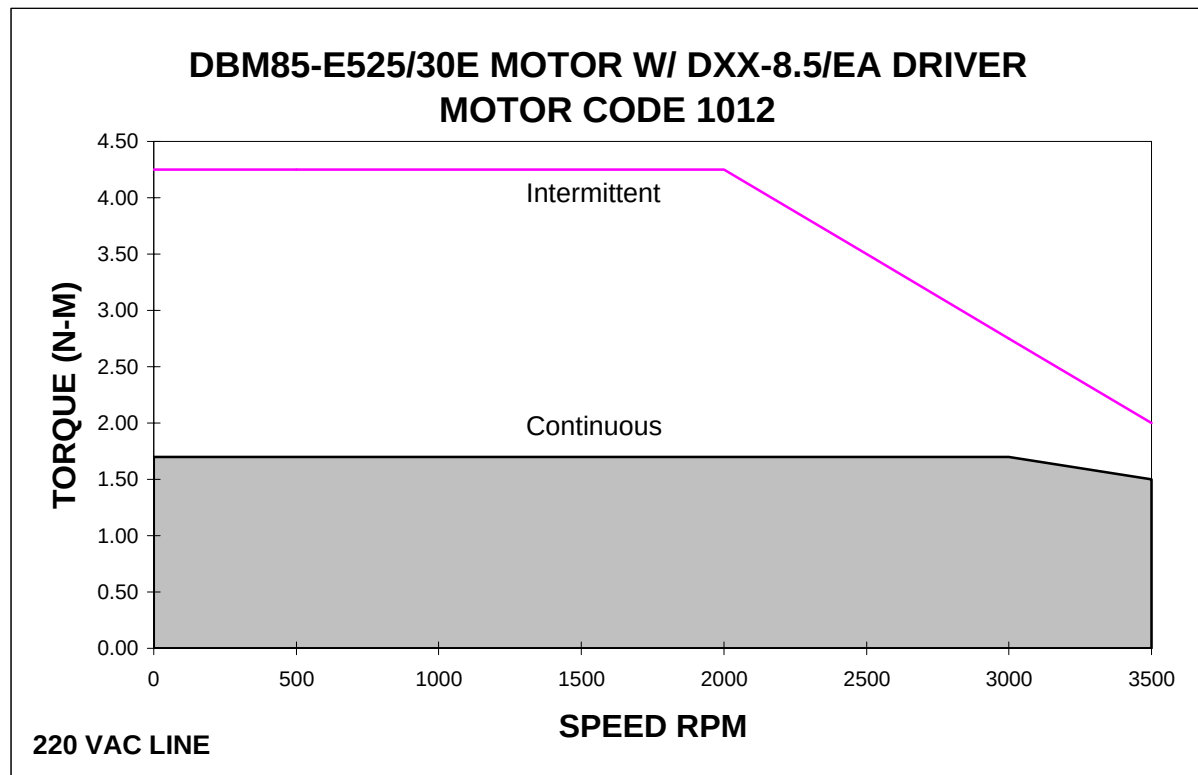


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E400MEA

6/1/03

POWER OUTPUT	WATTS	525
RATED SPEED	RPM	3000
MAX SPEED	RPM	3500
RATED TORQUE	N-M	1.70
	LB-IN	15.05
	LB-FT	1.25
PEAK TORQUE	N-M	4.25
	LB-IN	37.62
	LB-FT	3.13
ROTOR INERTIA	KG-CM^2	2.440
	LB-IN-SEC^2	0.002160
	LB-FT-SEC^2	0.0001800
MOTOR WEIGHT	KG	3.0
	LBS	6.6
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

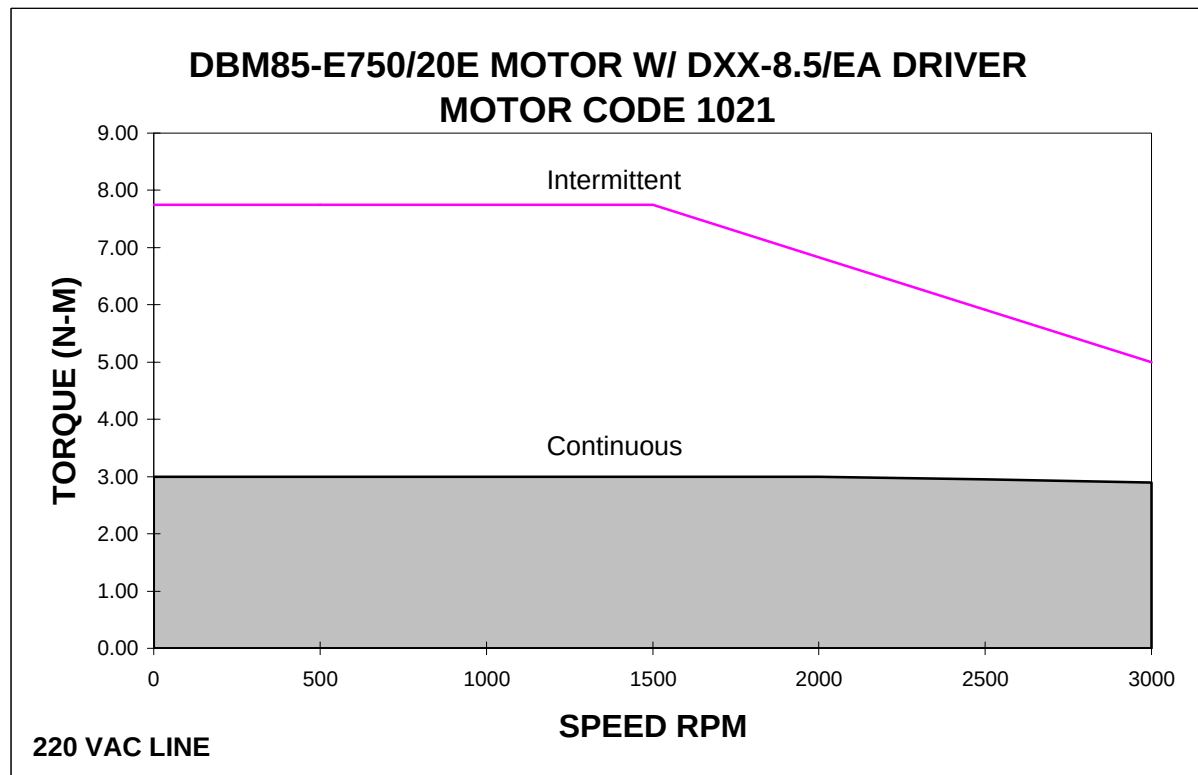


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E525HEA

6/1/03

POWER OUTPUT	WATTS	650
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	3.00
	LB-IN	26.55
	LB-FT	2.21
PEAK TORQUE	N-M	7.75
	LB-IN	68.59
	LB-FT	5.72
ROTOR INERTIA	KG-CM^2	4.200
	LB-IN-SEC^2	0.003717
	LB-FT-SEC^2	0.0003098
MOTOR WEIGHT	KG	5.0
	LBS	11.0
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

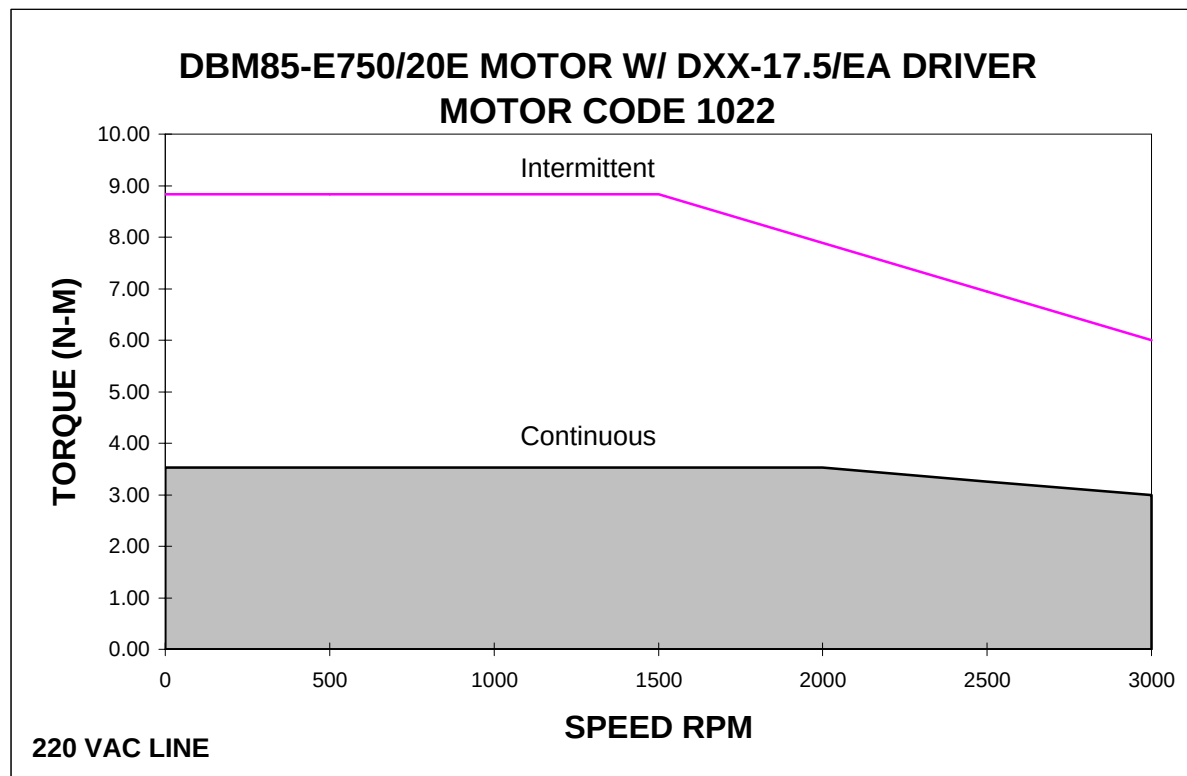


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E650MEA

6/1/03

POWER OUTPUT	WATTS	750
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	3.53
	LB-IN	31.24
	LB-FT	2.60
PEAK TORQUE	N-M	8.83
	LB-IN	78.15
	LB-FT	6.51
ROTOR INERTIA	KG-CM^2	4.200
	LB-IN-SEC^2	0.003717
	LB-FT-SEC^2	0.0003098
MOTOR WEIGHT	KG	5.0
	LBS	11.0
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

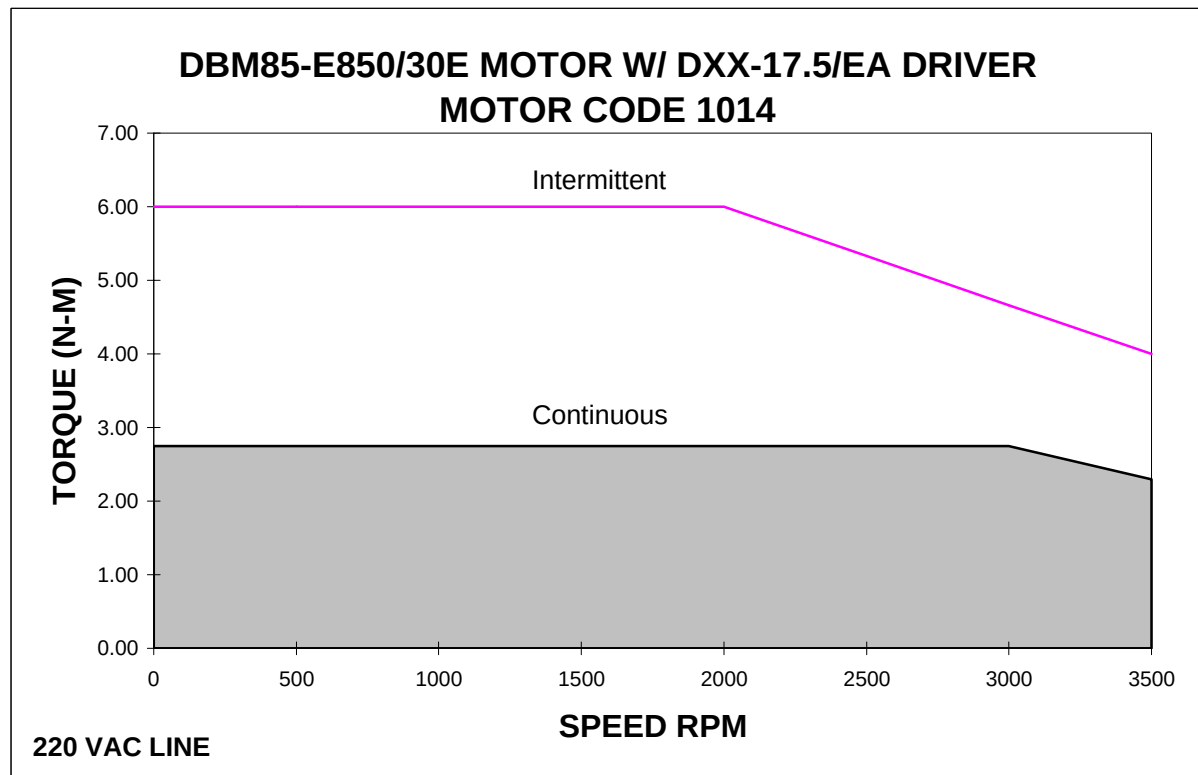


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E750MEA

6/1/03

POWER OUTPUT	WATTS	850
RATED SPEED	RPM	3000
MAX SPEED	RPM	3500
RATED TORQUE	N-M	2.75
	LB-IN	24.34
	LB-FT	2.03
PEAK TORQUE	N-M	6.00
	LB-IN	53.10
	LB-FT	4.43
ROTOR INERTIA	KG-CM^2	4.200
	LB-IN-SEC^2	0.003717
	LB-FT-SEC^2	0.0003098
MOTOR WEIGHT	KG	5.0
	LBS	11.0
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

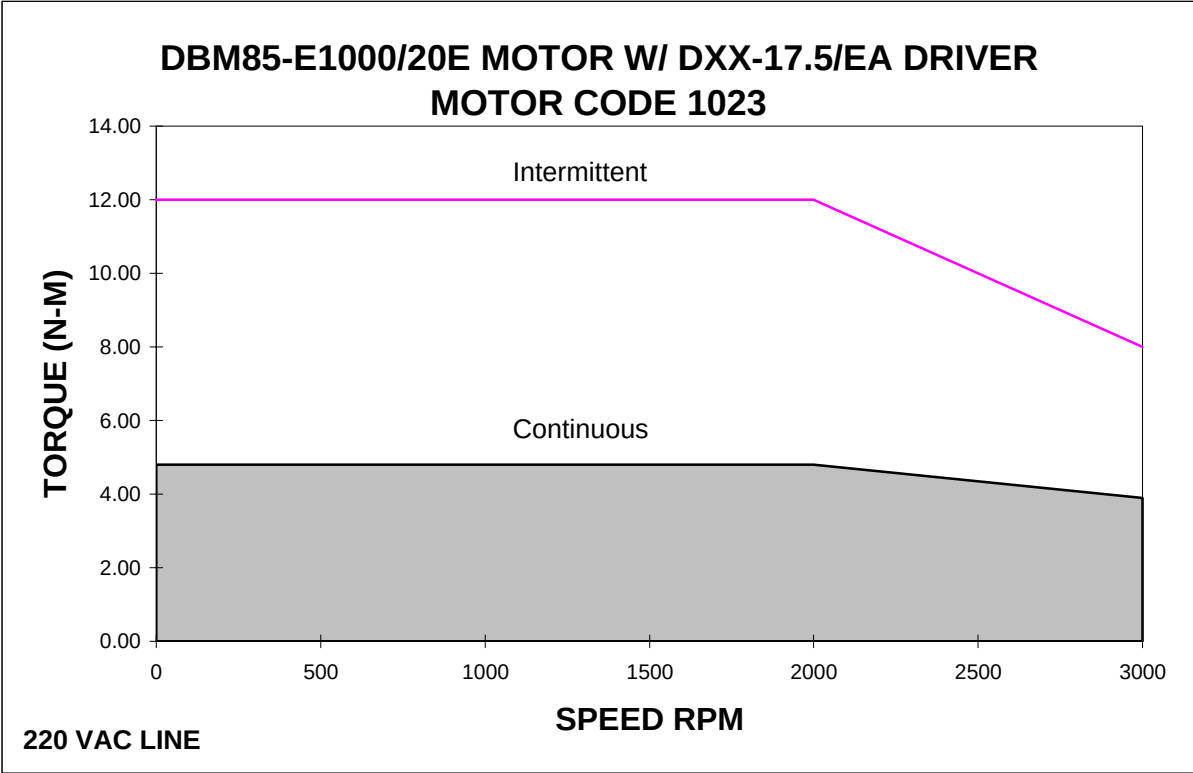


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E850HEA

6/1/03

POWER OUTPUT	WATTS	1000
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	4.80
	LB-IN	42.48
	LB-FT	3.54
PEAK TORQUE	N-M	12.00
	LB-IN	106.21
	LB-FT	8.85
ROTOR INERTIA	KG-CM^2	5.100
	LB-IN-SEC^2	0.004514
	LB-FT-SEC^2	0.0003762
MOTOR WEIGHT	KG	6.0
	LBS	13.2
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

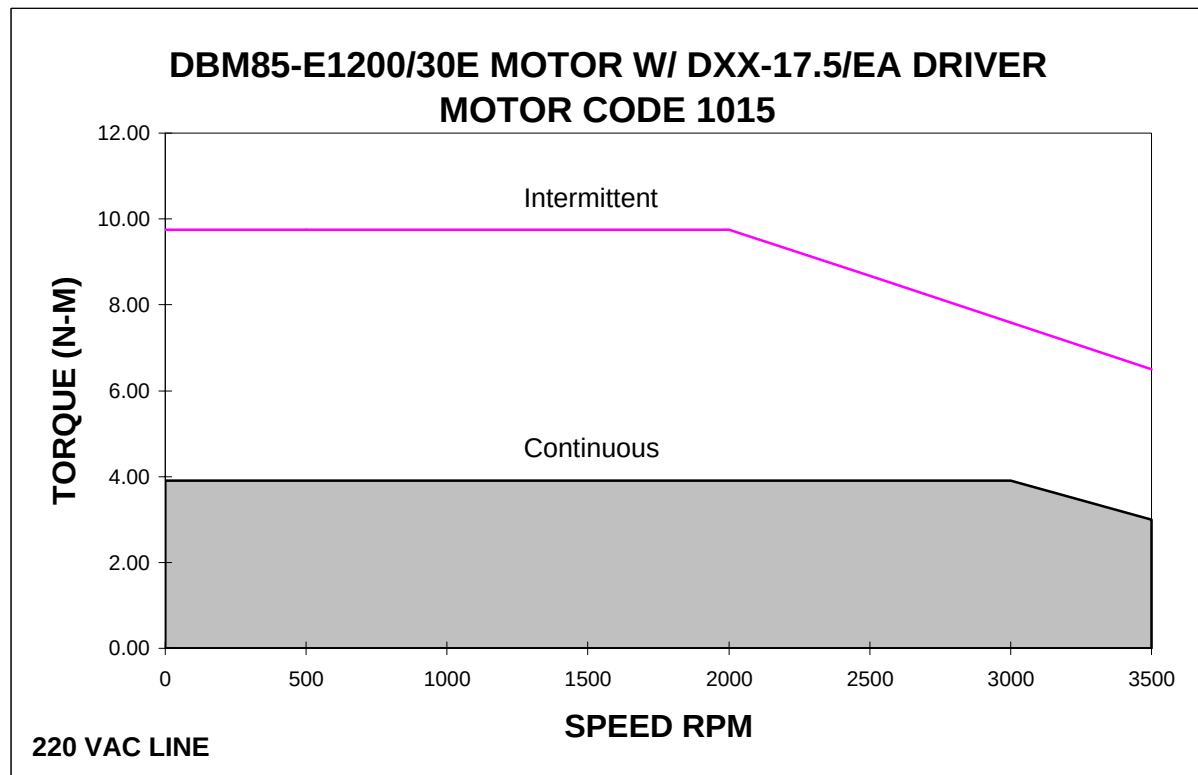
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E1000MEA

POWER OUTPUT	WATTS	1200
RATED SPEED	RPM	3000
MAX SPEED	RPM	3500
RATED TORQUE	N-M	3.90
	LB-IN	34.52
	LB-FT	2.88
PEAK TORQUE	N-M	9.75
	LB-IN	86.29
	LB-FT	7.19
ROTOR INERTIA	KG-CM^2	5.100
	LB-IN-SEC^2	0.004514
	LB-FT-SEC^2	0.0003762
MOTOR WEIGHT	KG	6.0
	LBS	13.2
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

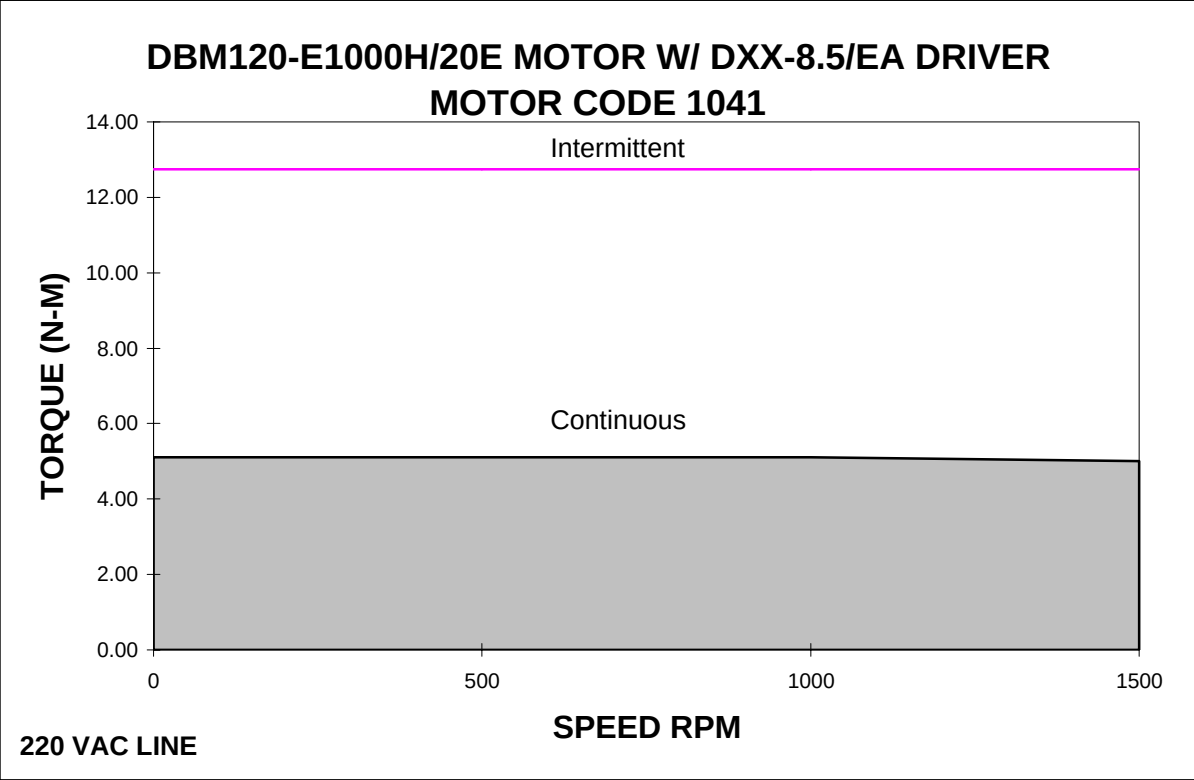


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
85E1200HEA

6/1/03

POWER OUTPUT	WATTS	500
RATED SPEED	RPM	1000
MAX SPEED	RPM	1500
RATED TORQUE	N-M	5.100
	LB-IN	45.14
	LB-FT	3.76
PEAK TORQUE	N-M	12.75
	LB-IN	112.85
	LB-FT	9.40
ROTOR INERTIA	KG-CM^2	5.670
	LB-IN-SEC^2	0.005018
	LB-FT-SEC^2	0.0004182
MOTOR WEIGHT	KG	8.0
	LBS	17.6
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

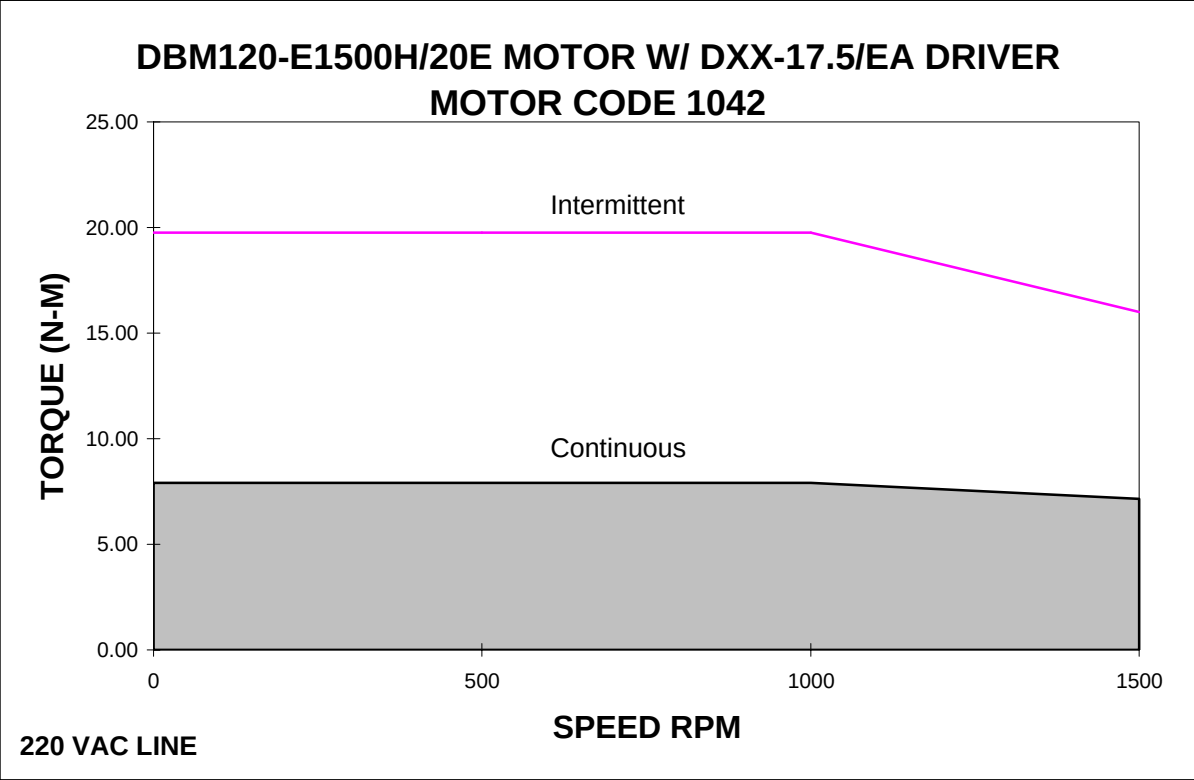


3/24/04

INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E500LEA

POWER OUTPUT	WATTS	750
RATED SPEED	RPM	1000
MAX SPEED	RPM	1500
RATED TORQUE	N-M	7.900
	LB-IN	69.92
	LB-FT	5.83
PEAK TORQUE	N-M	19.75
	LB-IN	174.80
	LB-FT	14.57
ROTOR INERTIA	KG-CM^2	8.200
	LB-IN-SEC^2	0.007258
	LB-FT-SEC^2	0.0006048
MOTOR WEIGHT	KG	9.2
	LBS	20.3
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

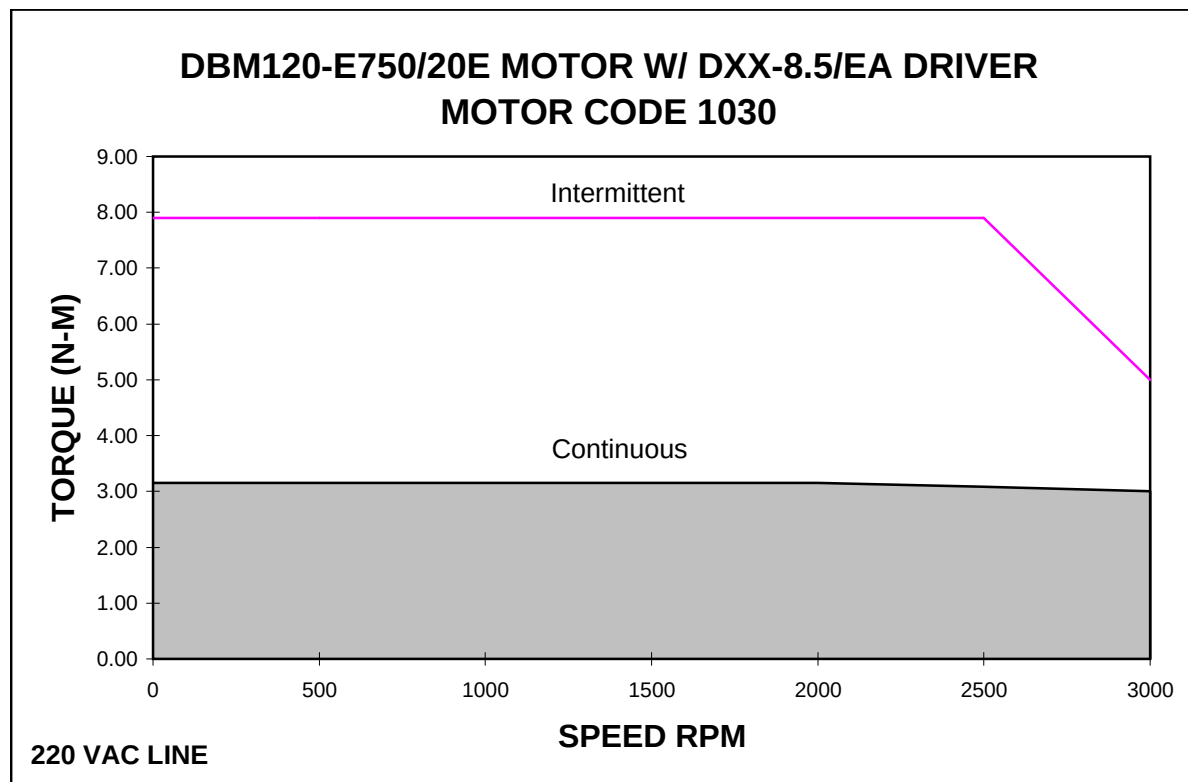
*Specifications subject to change without notice



INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E750LEA

POWER OUTPUT	WATTS	750
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	3.150
	LB-IN	27.88
	LB-FT	2.32
PEAK TORQUE	N-M	7.90
	LB-IN	69.92
	LB-FT	5.83
ROTOR INERTIA	KG-CM^2	3.630
	LB-IN-SEC^2	0.003213
	LB-FT-SEC^2	0.0002677
MOTOR WEIGHT	KG	6.0
	LBS	13.2
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

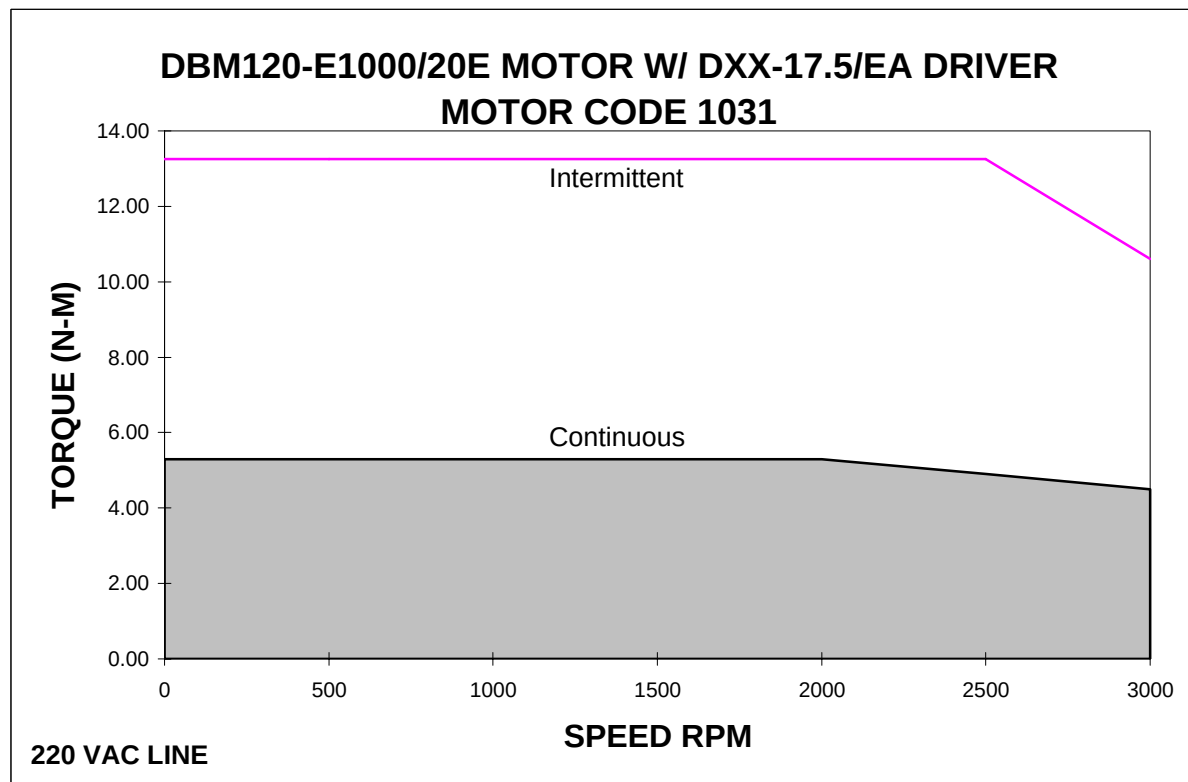


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E750MEA

4/21/05

POWER OUTPUT	WATTS	1000
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	5.300
	LB-IN	46.91
	LB-FT	3.91
PEAK TORQUE	N-M	13.25
	LB-IN	117.27
	LB-FT	9.77
ROTOR INERTIA	KG-CM^2	5.670
	LB-IN-SEC^2	0.005018
	LB-FT-SEC^2	0.0004182
MOTOR WEIGHT	KG	8.0
	LBS	17.6
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

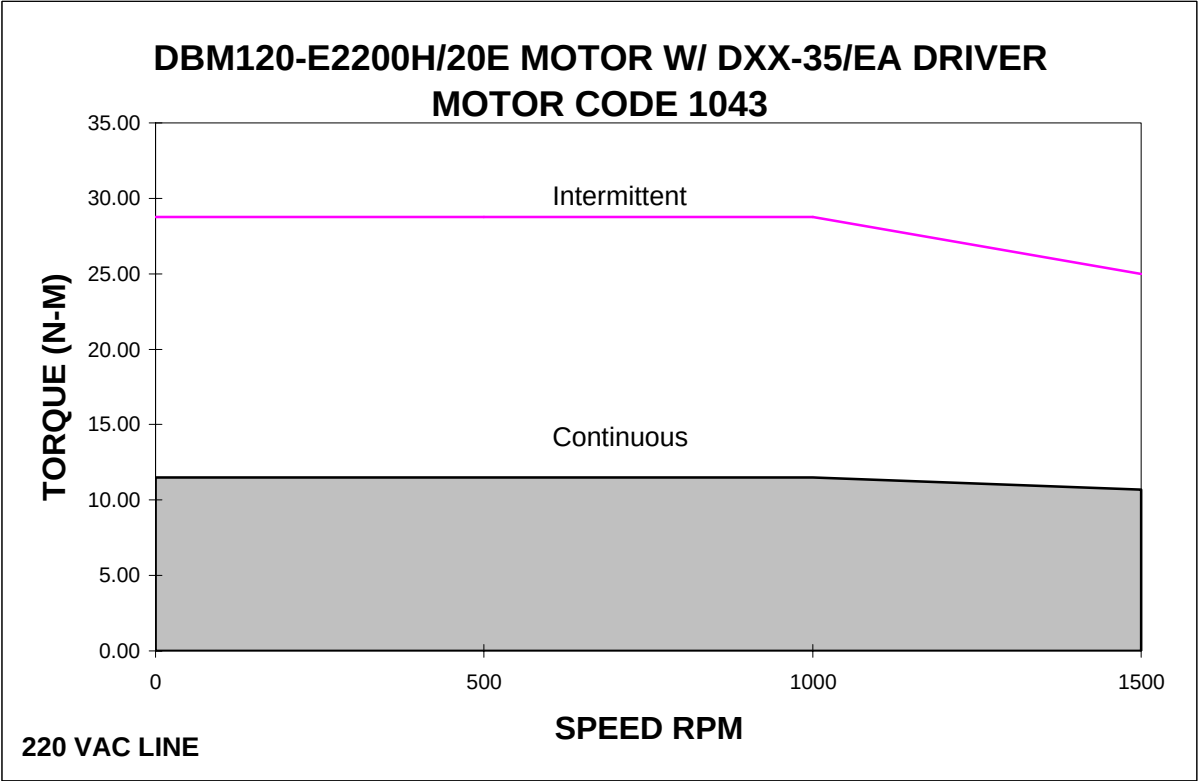


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E1000MEA

3/24/04

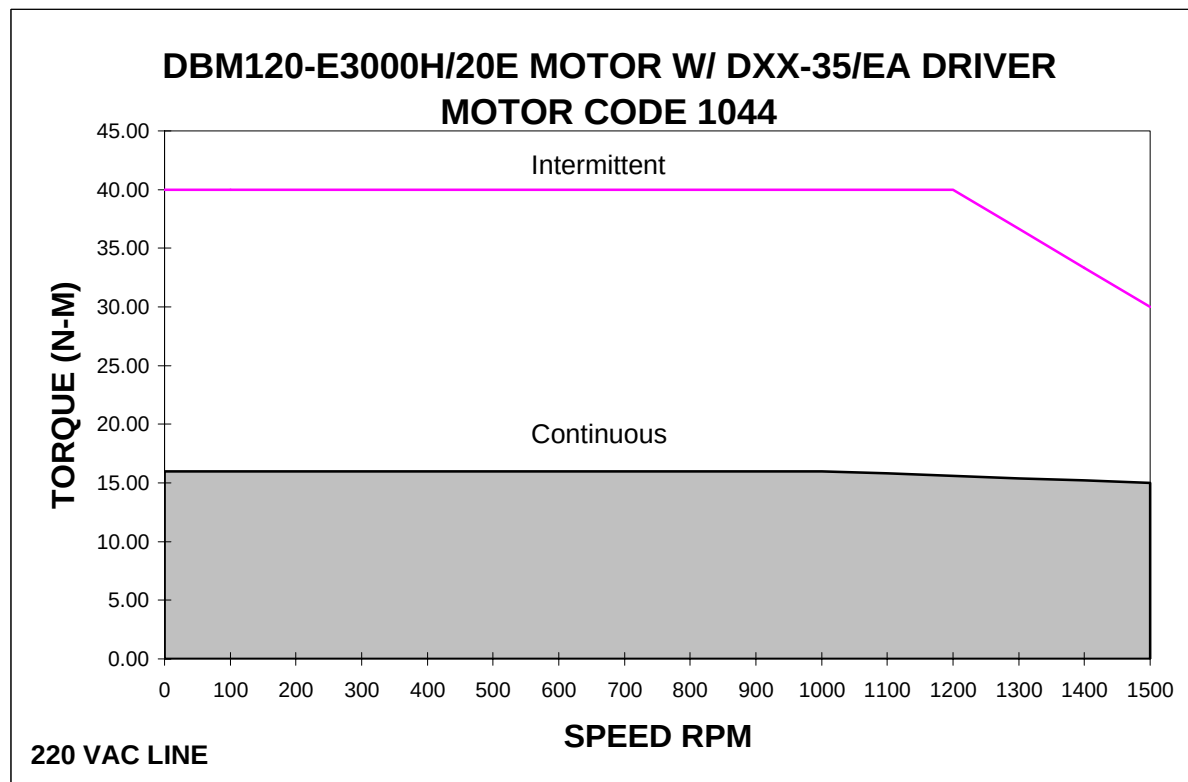
POWER OUTPUT	WATTS	1100
RATED SPEED	RPM	1000
MAX SPEED	RPM	1500
RATED TORQUE	N-M	11.500
	LB-IN	101.78
	LB-FT	8.48
PEAK TORQUE	N-M	28.75
	LB-IN	254.46
	LB-FT	21.20
ROTOR INERTIA	KG-CM^2	11.700
	LB-IN-SEC^2	0.010355
	LB-FT-SEC^2	0.0008629
MOTOR WEIGHT	KG	12.2
	LBS	26.9
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice



POWER OUTPUT	WATTS	1500
RATED SPEED	RPM	1000
MAX SPEED	RPM	1500
RATED TORQUE	N-M	16.000
	LB-IN	141.61
	LB-FT	11.80
PEAK TORQUE	N-M	40.00
	LB-IN	354.03
	LB-FT	29.50
ROTOR INERTIA	KG-CM^2	15.800
	LB-IN-SEC^2	0.013984
	LB-FT-SEC^2	0.0011653
MOTOR WEIGHT	KG	15.0
	LBS	33.1
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

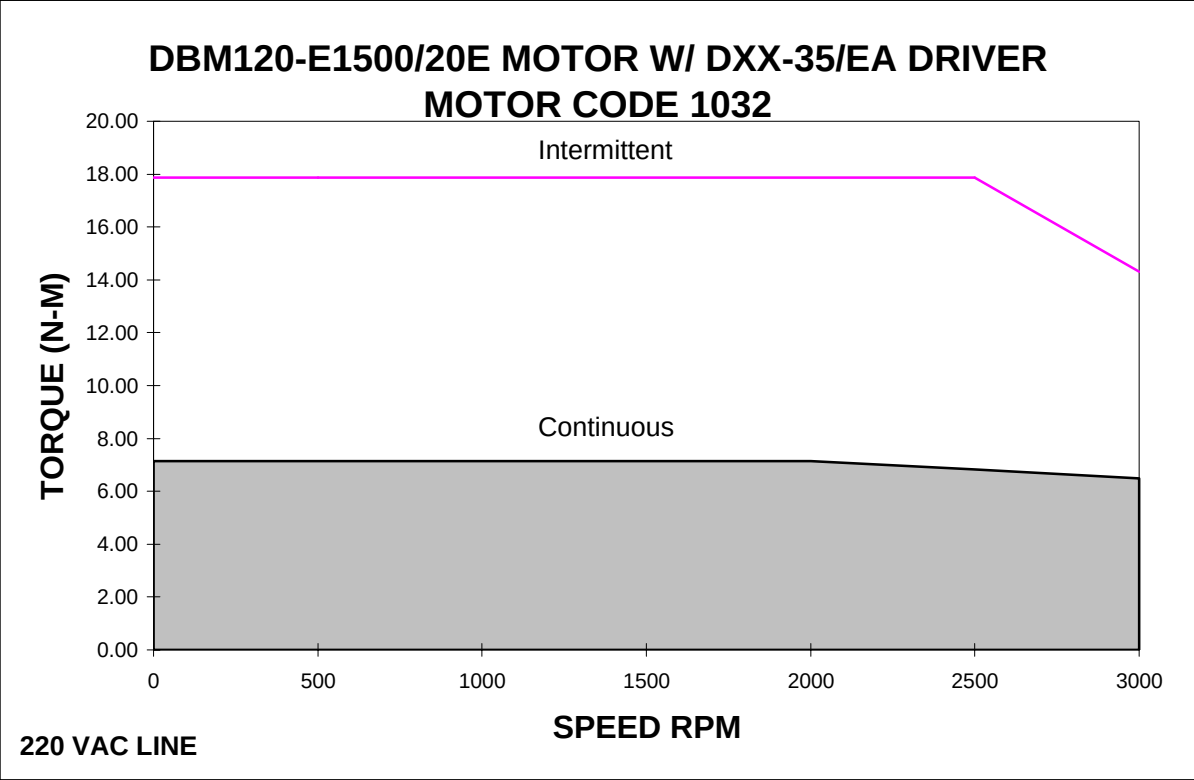


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E1500LEA

3/24/04

POWER OUTPUT	WATTS	1500
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	7.150
	LB-IN	63.28
	LB-FT	5.27
PEAK TORQUE	N-M	17.87
	LB-IN	158.16
	LB-FT	13.18
ROTOR INERTIA	KG-CM^2	8.200
	LB-IN-SEC^2	0.007258
	LB-FT-SEC^2	0.0006048
MOTOR WEIGHT	KG	9.2
	LBS	20.3
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

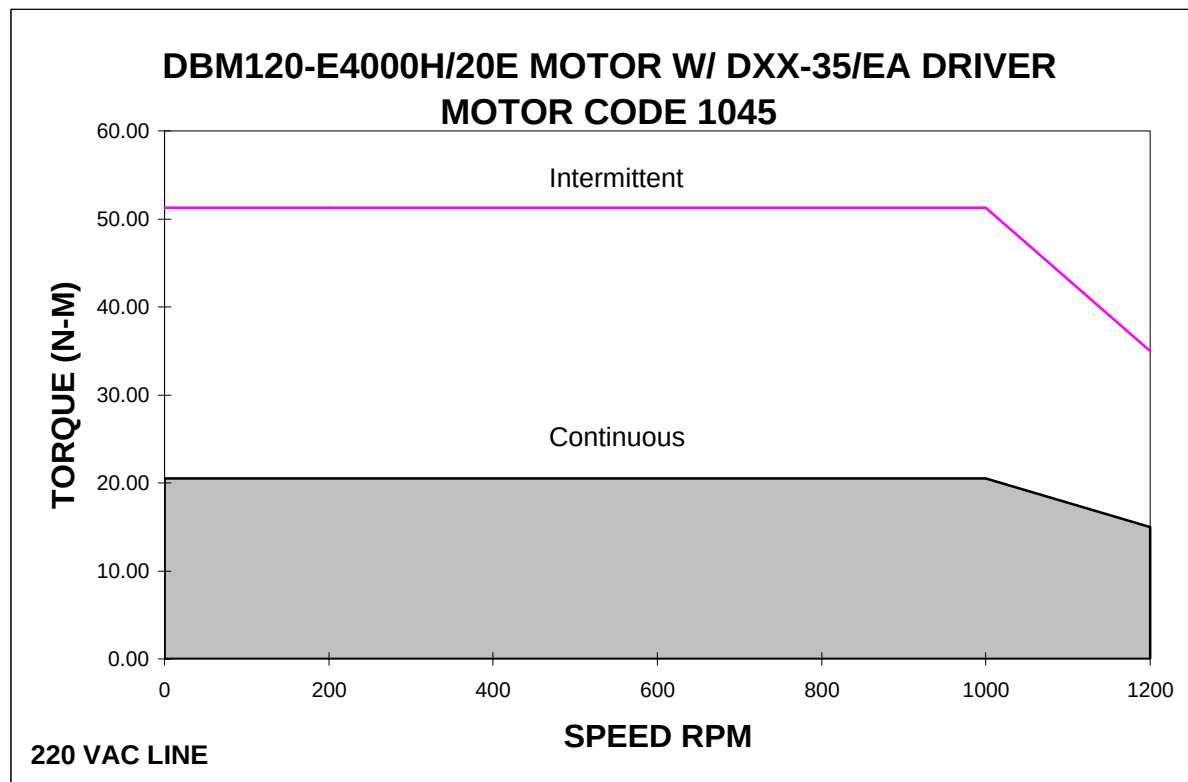


3/24/04

INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E1500MEA

POWER OUTPUT	WATTS	2000
RATED SPEED	RPM	1000
MAX SPEED	RPM	1200
RATED TORQUE	N-M	20.500
	LB-IN	181.44
	LB-FT	15.12
PEAK TORQUE	N-M	51.25
	LB-IN	453.60
	LB-FT	37.80
ROTOR INERTIA	KG-CM^2	20.800
	LB-IN-SEC^2	0.018410
	LB-FT-SEC^2	0.0015341
MOTOR WEIGHT	KG	18.0
	LBS	39.7
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

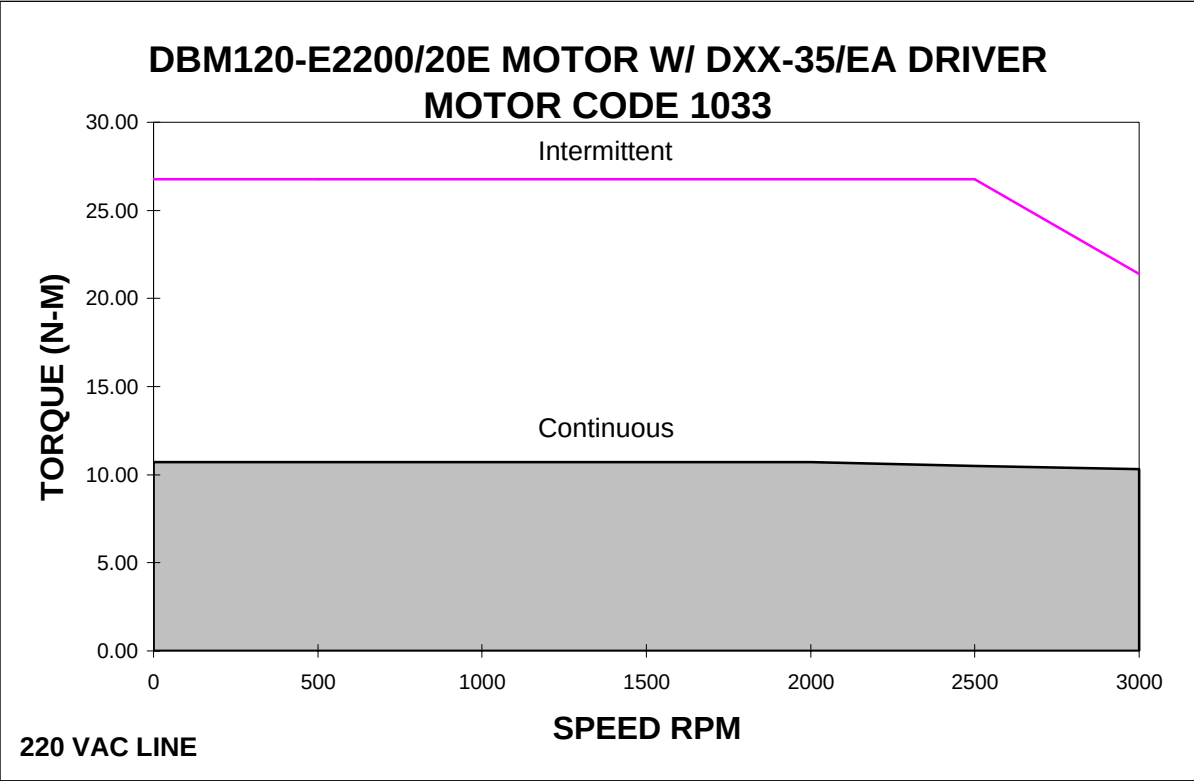


INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E2000LEA

3/24/04

POWER OUTPUT	WATTS	2200
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	10.700
	LB-IN	94.70
	LB-FT	7.89
PEAK TORQUE	N-M	26.75
	LB-IN	236.76
	LB-FT	19.73
ROTOR INERTIA	KG-CM^2	11.700
	LB-IN-SEC^2	0.010355
	LB-FT-SEC^2	0.0008629
MOTOR WEIGHT	KG	11.0
	LBS	24.3
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

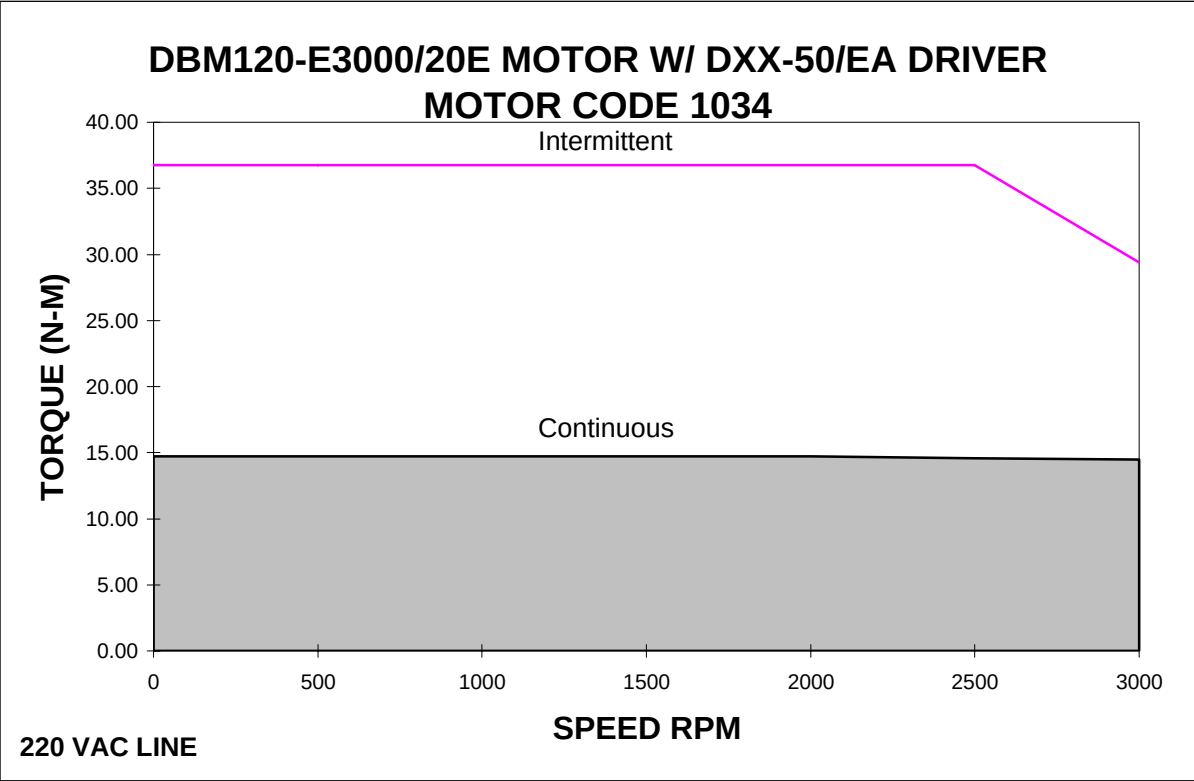


3/24/04

INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E2200MEA

POWER OUTPUT	WATTS	3000
RATED SPEED	RPM	2000
MAX SPEED	RPM	3000
RATED TORQUE	N-M	14.700
	LB-IN	130.11
	LB-FT	10.84
PEAK TORQUE	N-M	36.75
	LB-IN	325.27
	LB-FT	27.11
ROTOR INERTIA	KG-CM^2	15.810
	LB-IN-SEC^2	0.013993
	LB-FT-SEC^2	0.0011661
MOTOR WEIGHT	KG	15.0
	LBS	33.1
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice

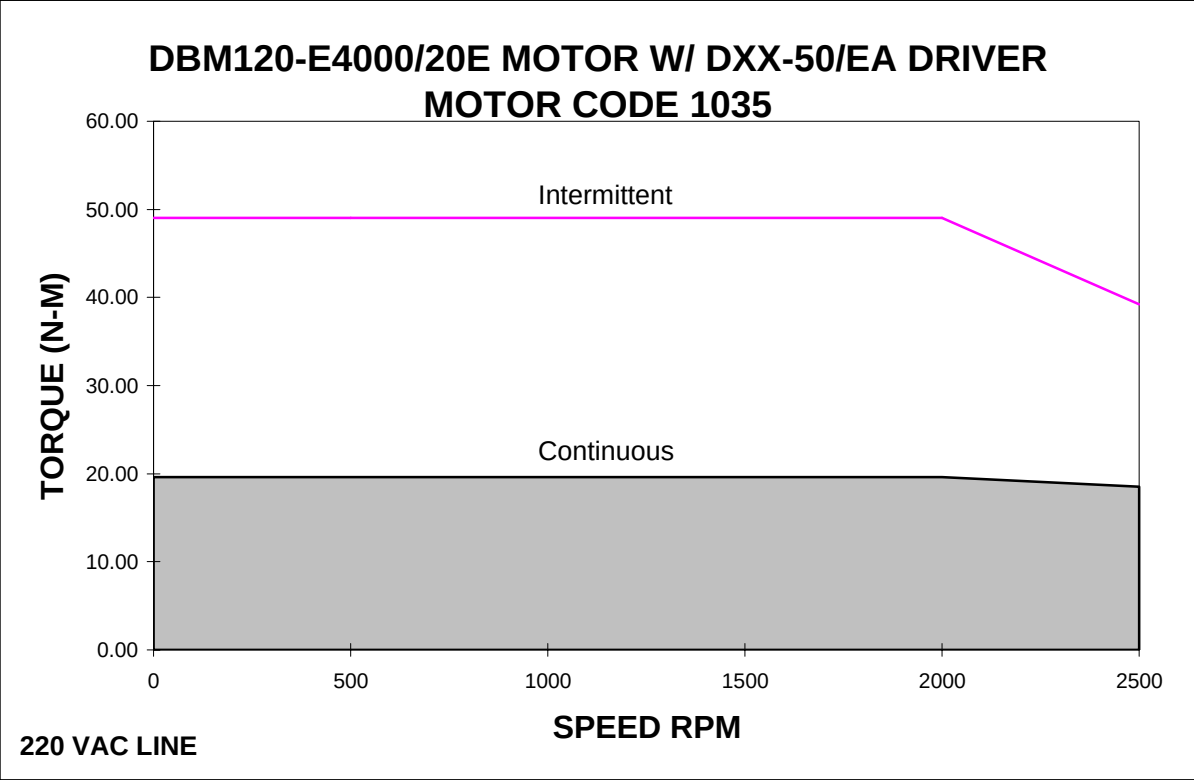


3/24/04

INDUSTRIAL INDEXING SYSTEMS
DELTA PACKAGE
120E3000MEA

POWER OUTPUT	WATTS	4000
RATED SPEED	RPM	2000
MAX SPEED	RPM	2500
RATED TORQUE	N-M	19.600
	LB-IN	173.47
	LB-FT	14.46
PEAK TORQUE	N-M	49.00
	LB-IN	433.69
	LB-FT	36.14
ROTOR INERTIA	KG-CM^2	20.810
	LB-IN-SEC^2	0.018418
	LB-FT-SEC^2	0.0015349
MOTOR WEIGHT	KG	18.0
	LBS	39.7
ENCODER	PPR	10000
MARKER		1
AMBIENT TEMP	°C	40
BRAKE Jm ADDER	KG-CM^2	N/A
	LB-IN-SEC^2	N/A
	LB-FT-SEC^2	N/A

*Specifications subject to change without notice



A.5 DRIVER MOUNTING AND DIMENSIONS

DRAWING NUMBER

DESCRIPTION

DELTA DRIVERS

DSD-1.5/RA & RB	Delta Series Drive
DSD-4.25/RA & RB	Delta Series Drive
DSD-8.5/RA & RB	Delta Series Drive
DSD-17.5/RA	Delta Series Drive
DSD-35/RA	Delta Series Drive
DSD-50/RA	Delta Series Drive
DSD-70/RA	Delta Series Drive
DSD-115/RA	Delta Series Drive

DELTAMAX DRIVERS

DMAX-1.5/RA & RB	Delta Series Drive
DMAX-4.25/RA & RB	Delta Series Drive
DMAX-8.5/RA & RB	Delta Series Drive
DMAX-17.5/RA	Delta Series Drive
DMAX-35/RA	Delta Series Drive
DMAX-50/RA	Delta Series Drive
DMAX-70/RA	Delta Series Drive
DMAX-115/RA	Delta Series Drive

DELTAPRO DRIVERS

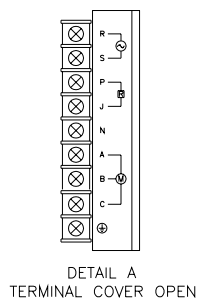
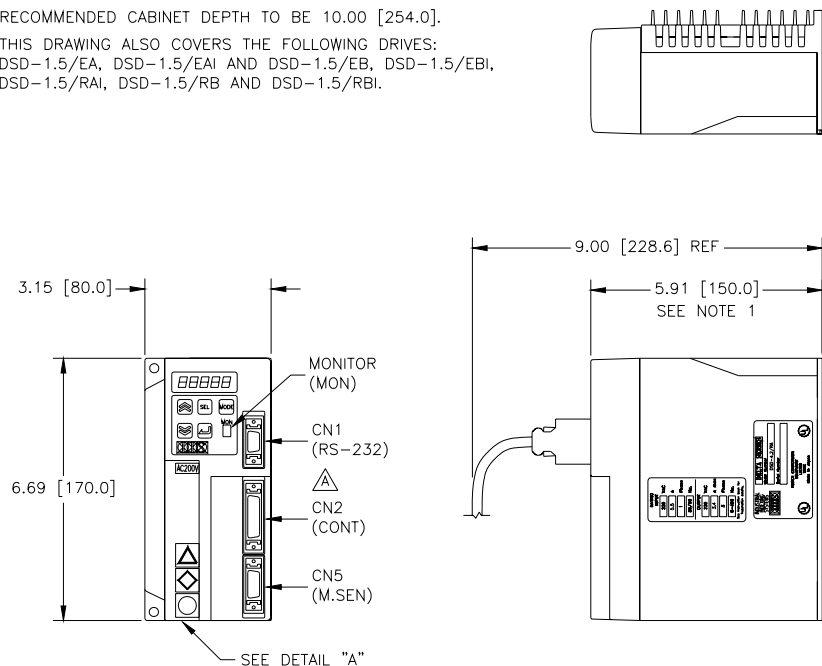
DPRO-1.5/RA & RB	Delta Series Drive
DPRO-4.25/RA & RB	Delta Series Drive
DPRO-8.5/RA & RB	Delta Series Drive
DPRO-17.5/RA	Delta Series Drive
DPRO-35/RA	Delta Series Drive
DPRO-50/RA	Delta Series Drive
DPRO-70/RA	Delta Series Drive
DPRO-115/RA	Delta Series Drive

DELTA S DRIVERS

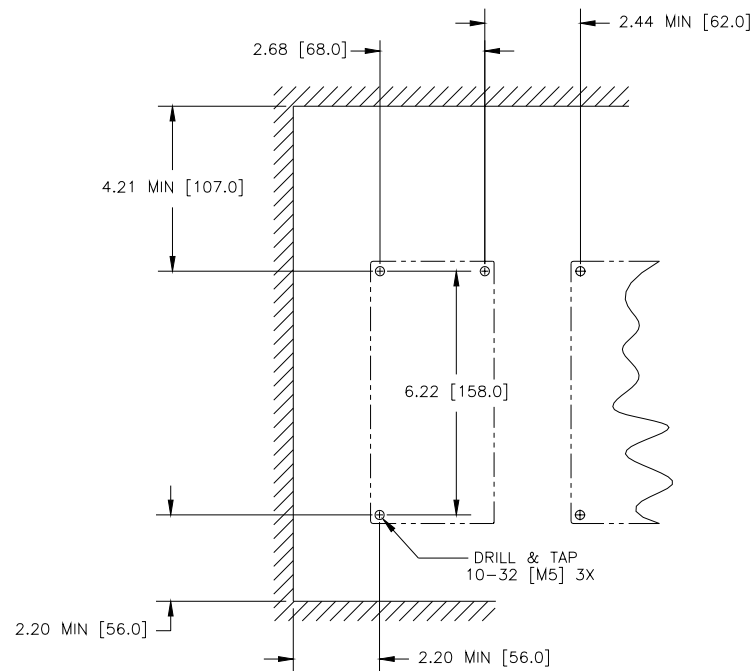
DS-1.5/RA & RB	Delta Series Drive
DS-4.25/RA & RB	Delta Series Drive
DS-8.5/RA & RB	Delta Series Drive
DS-17.5/RA	Delta Series Drive
DS-35/RA	Delta Series Drive
DS-50/RA	Delta Series Drive
DS-70/RA	Delta Series Drive
DS-115/RA	Delta Series Drive

NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-1.5/EA, DSD-1.5/EAI AND DSD-1.5/EB, DSD-1.5/EBI,
DSD-1.5/RAI, DSD-1.5/RB AND DSD-1.5/RBI.



MOUNTING AND SPACING REQUIREMENTS

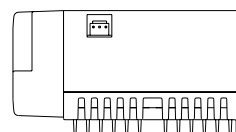
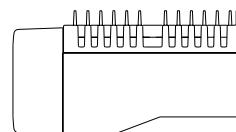
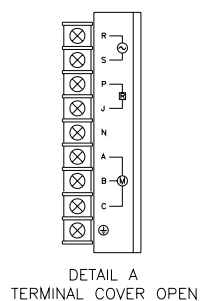
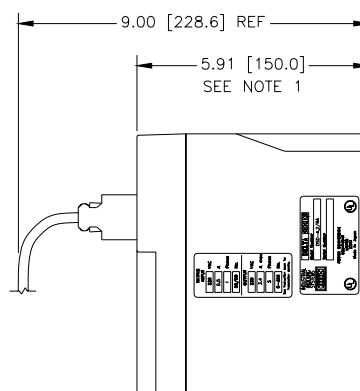
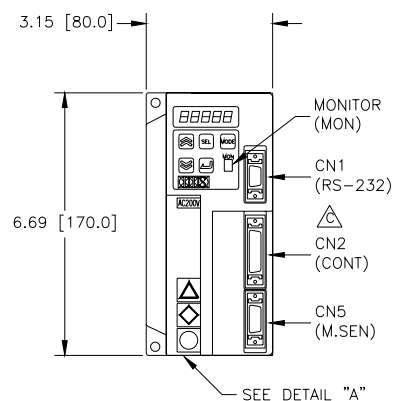


 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.	
		TITLE DRIVE, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DSD-1.5/RA	
TOLERANCES X.X ± .005 X.XX ± 0.01 X.XXX ± 0.005	AUTOCAD FILE LOCATION Q:\CURRENT DWGS DATE 10AUG00	SCALE NTS	SHEET NO. 1 OF 1
ANGULAR ± 0°30'	REVISION A		

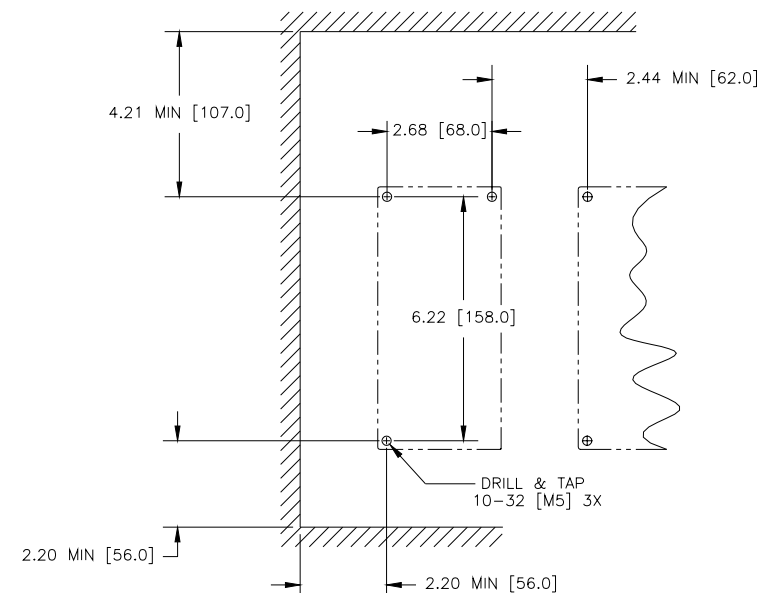
DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	C	PER ECN 01-303	CWB	EB	CDR

NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-4.25/EA, DSD-4.25/EB AND DSD-4.25/RB.



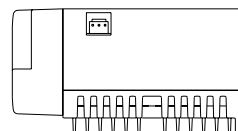
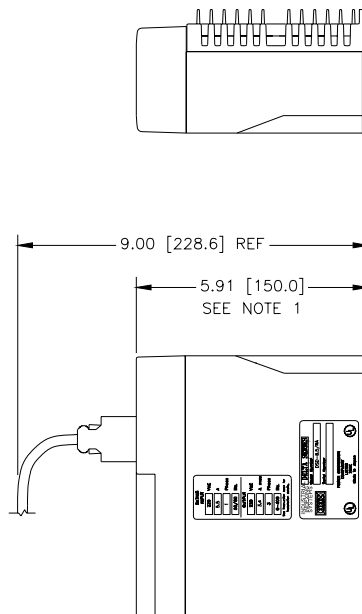
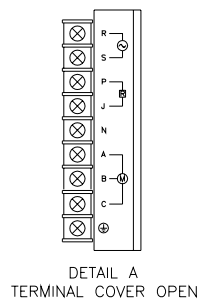
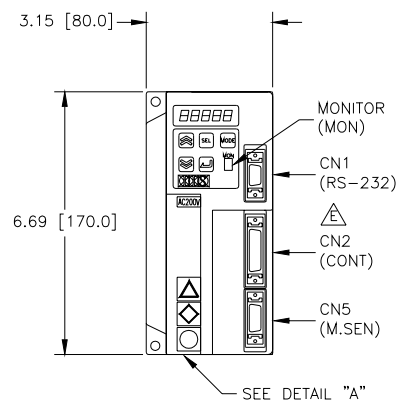
MOUNTING AND SPACING REQUIREMENTS



 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.	
		TITLE DRIVE, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DSD-4.25/RA	
TOLERANCES X.X ± 0.01 X.XXX ± 0.005	ANGLE ± 0°30'	AutoCAD FILE LOCATION Q:\CURRENT DWGS DATE 16FEB00	SCALE NTS
		SHEET NO. 1 OF 1	REVISION C

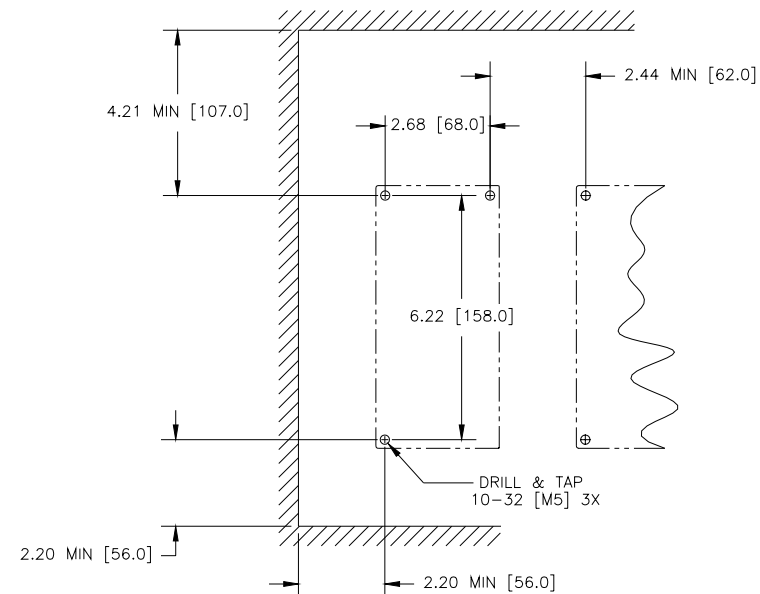
NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-8.5/EA, DSD-8.5/EAI, DSD-8.5/EB, DSD-8.5/EBI,
DSD-8.5/RAI, DSD-8.5/RB AND DSD-8.5/RBI.



DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR

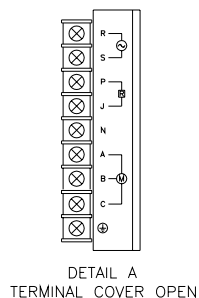
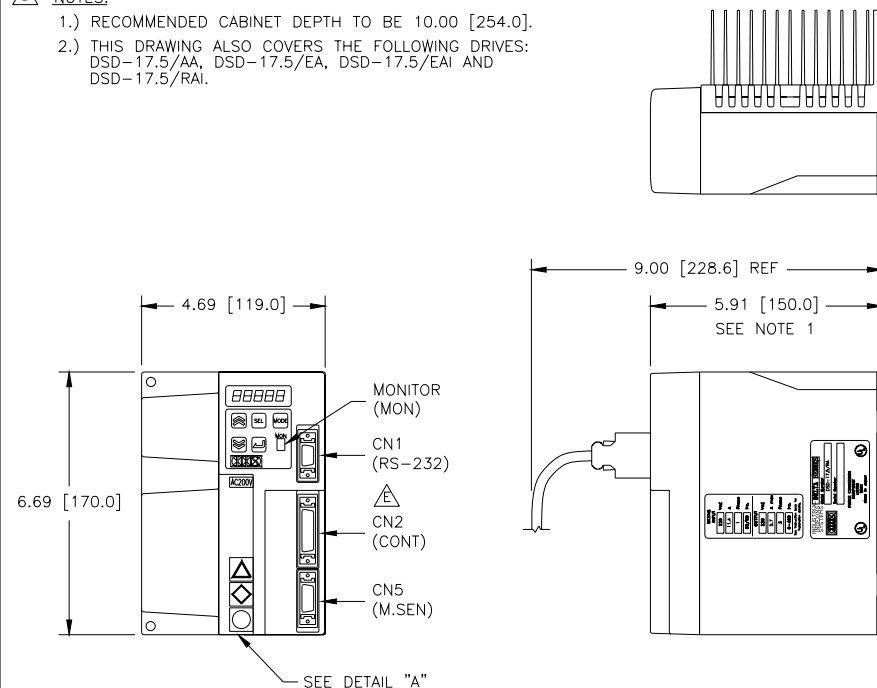
MOUNTING AND SPACING REQUIREMENTS



 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.	
		TITLE DRIVE, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DSD-8.5/RA	
TOLERANCES X.X ± 0.01 X.XXX ± 0.005	AutoCAD FILE LOCATION Q:\CURRENT DWGS DATE 09APR96	SCALE NTS	SHEET NO. 1 OF 1
ANGULAR ± 0°30'	REVISION E		

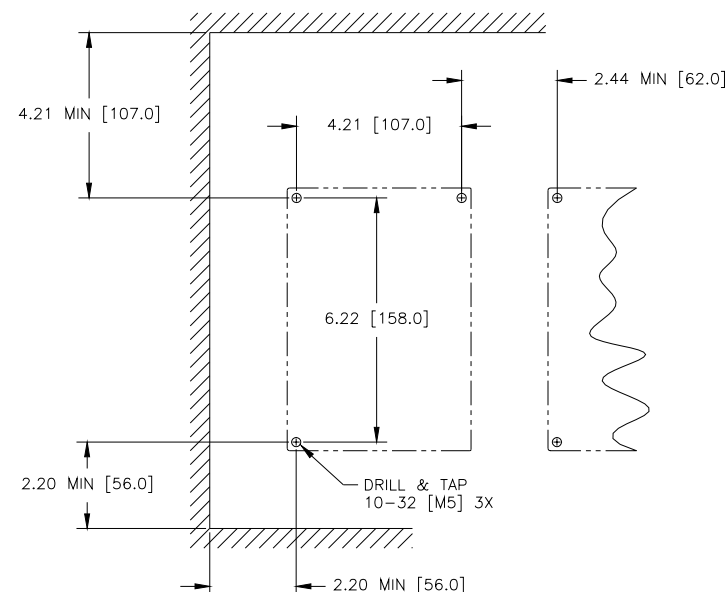
NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-17.5/AA, DSD-17.5/EA, DSD-17.5/EAI AND
DSD-17.5/RAI.



DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR

MOUNTING AND SPACING REQUIREMENTS



 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE DRIVE, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DSD-17.5/RA	
TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DATE 09APR96	
ANGULAR ± 0°30'		SCALE NTS		SHEET NO. 1 OF 1	
				REVISION E	

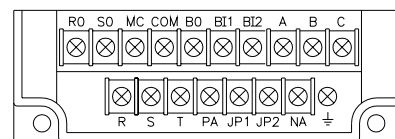
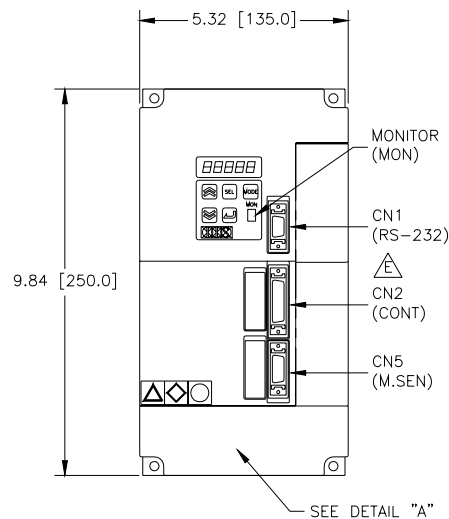
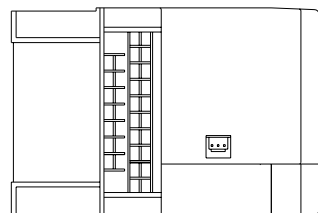
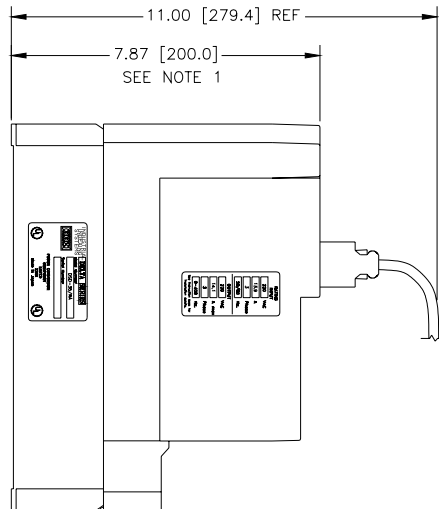
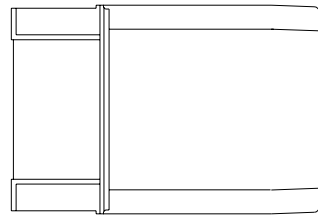
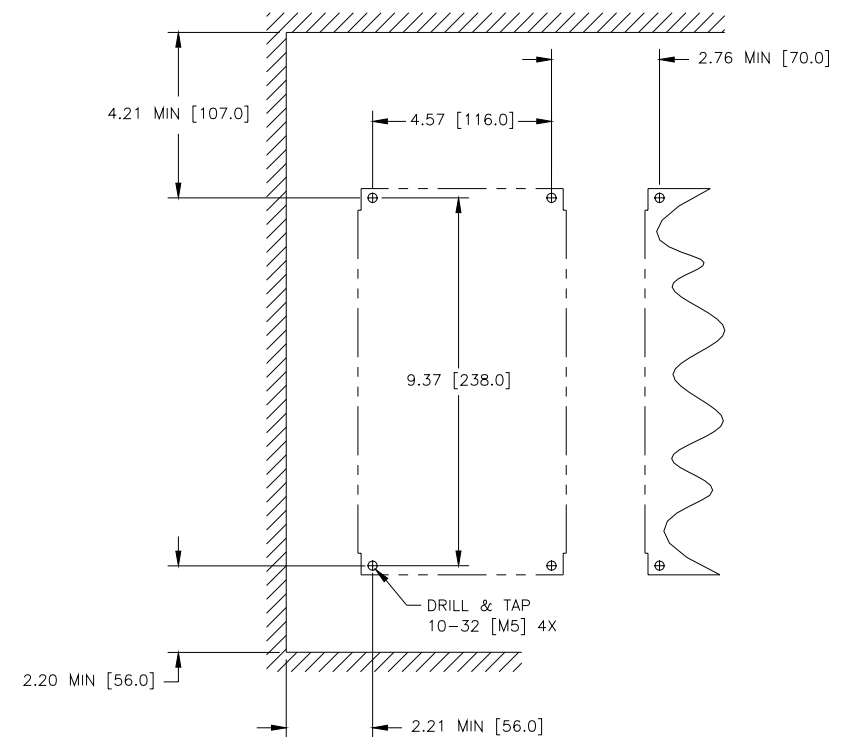
DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR



NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-35/EA, DSD-35/EAI AND DSD-35/RAI.

MOUNTING AND SPACING REQUIREMENTS

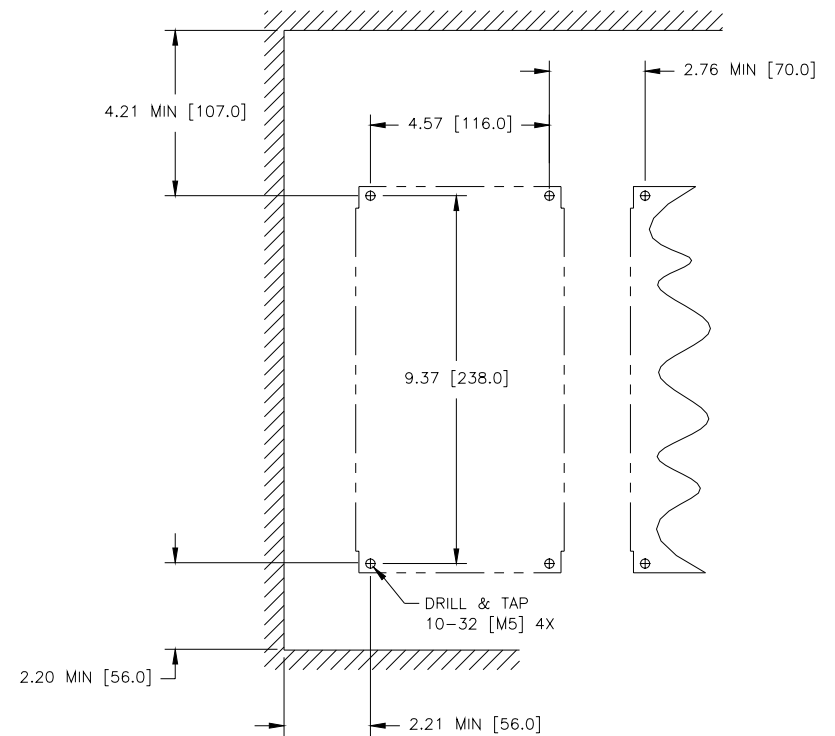


DETAIL A
PROTECTIVE COVER REMOVED

		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
DRIVE, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DSD-35/RA	
X.X ± ---	ANGULAR ± 0°30'	DATE 03APR96	SCALE NTS	SHEET NO. 1 OF 1	REVISION E

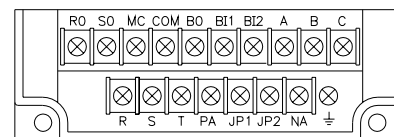
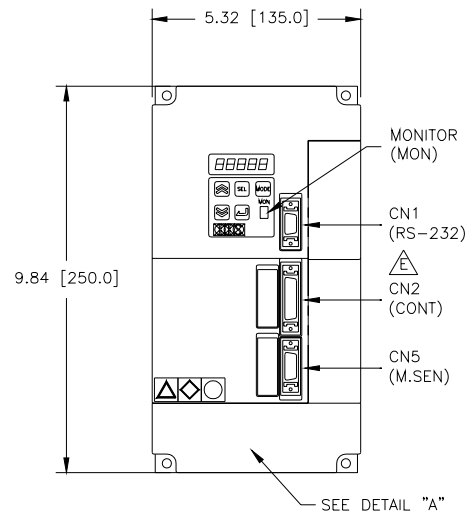
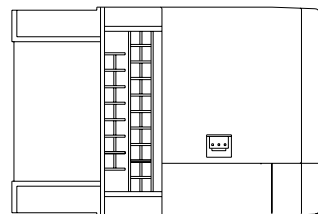
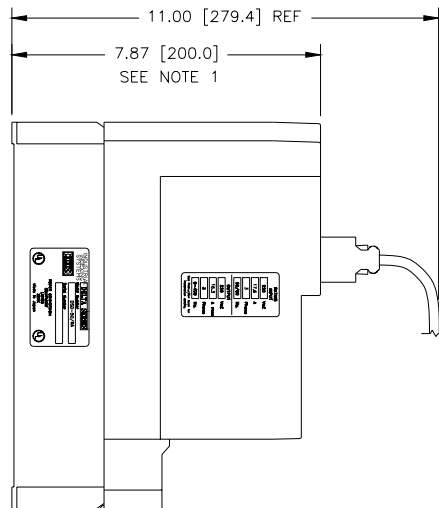
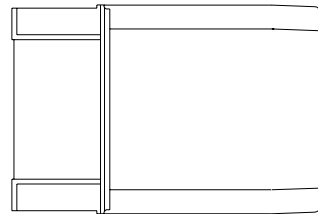
DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR

MOUNTING AND SPACING REQUIREMENTS



NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-50/EA, DSD-50/EAI AND DSD-50/RAI.



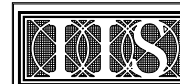
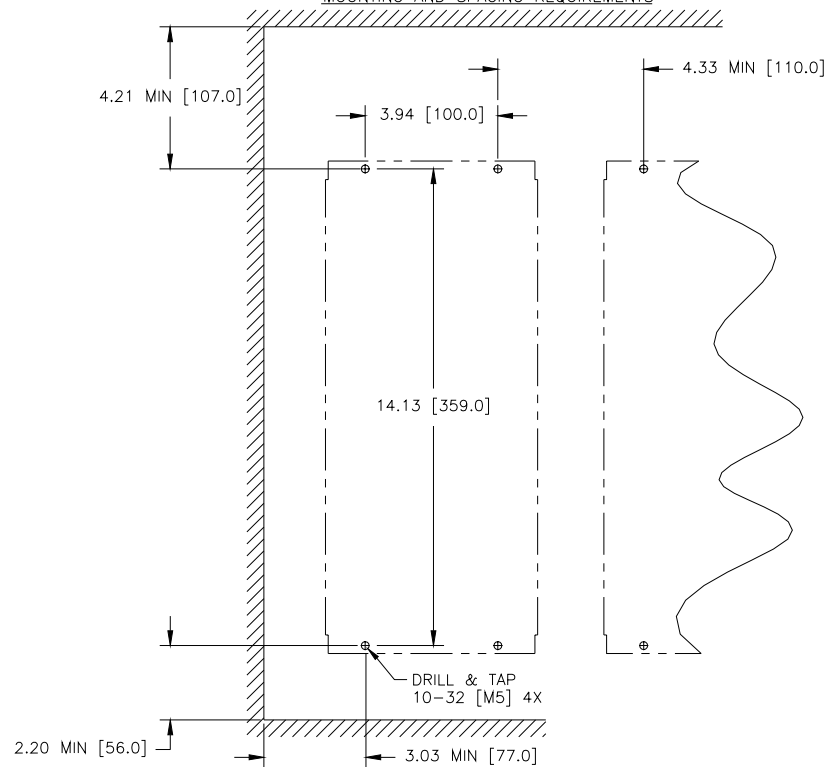
DETAIL A
PROTECTIVE COVER REMOVED

		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE		DRIVE, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DSD-50/RA	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS		
X.X ± ---	ANGULAR ± 0°30'	DATE 03APR96	SCALE NTS
X.XX ± 0.01		SHEET NO. 1 OF 1	REVISION E
X.XXX ± 0.005			

**NOTES:**

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-70/EA, DSD-70/EAI AND DSD-70/RAI.

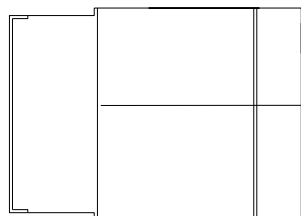
DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR

MOUNTING AND SPACING REQUIREMENTS**INDUSTRIAL INDEXING SYSTEMS, Inc.**

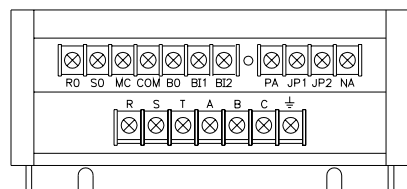
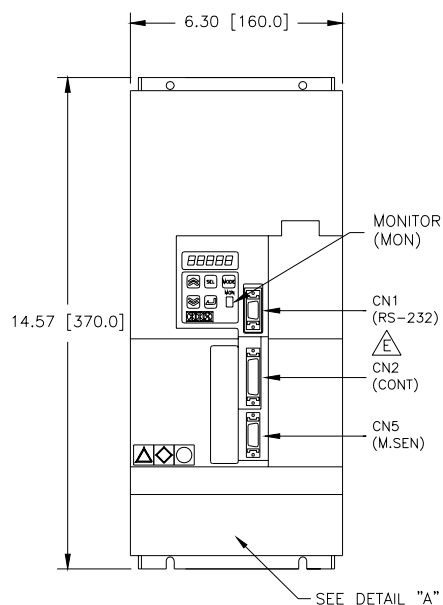
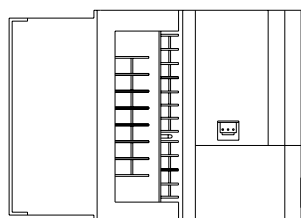
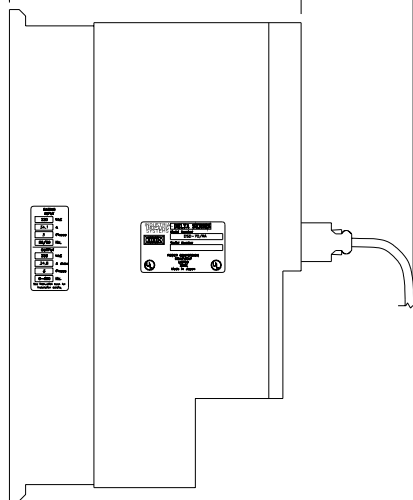
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		DRAWN BY		DRAWING NUMBER	
DRIVE, DELTA SERIES		BOWMAN		DSD-70/RA	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		AutoCAD FILE LOCATION		SHEET NO.	
TOLERANCES		Q:\CURRENT DWGS		REVISION	
X.X ± .01	ANGULAR	DATE	SCALE	1 OF 1	
X.XXX ± 0.005	± 0° 30'	08APR98	NTS	E	



12.00 [304.8] REF
8.66 [220.0]
SEE NOTE 1

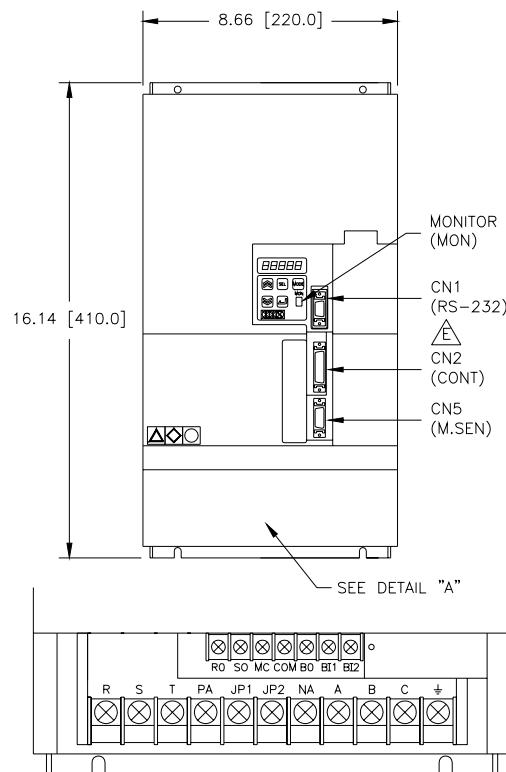
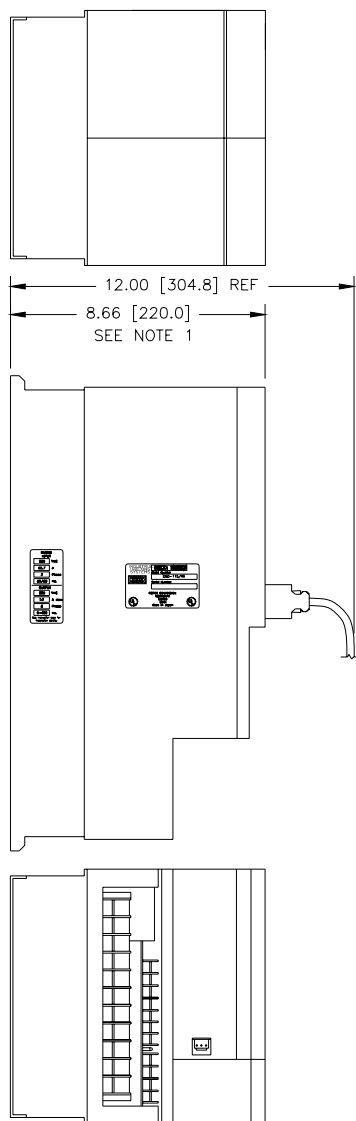


DETAIL A
PROTECTIVE COVER REMOVED



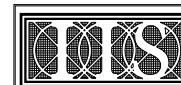
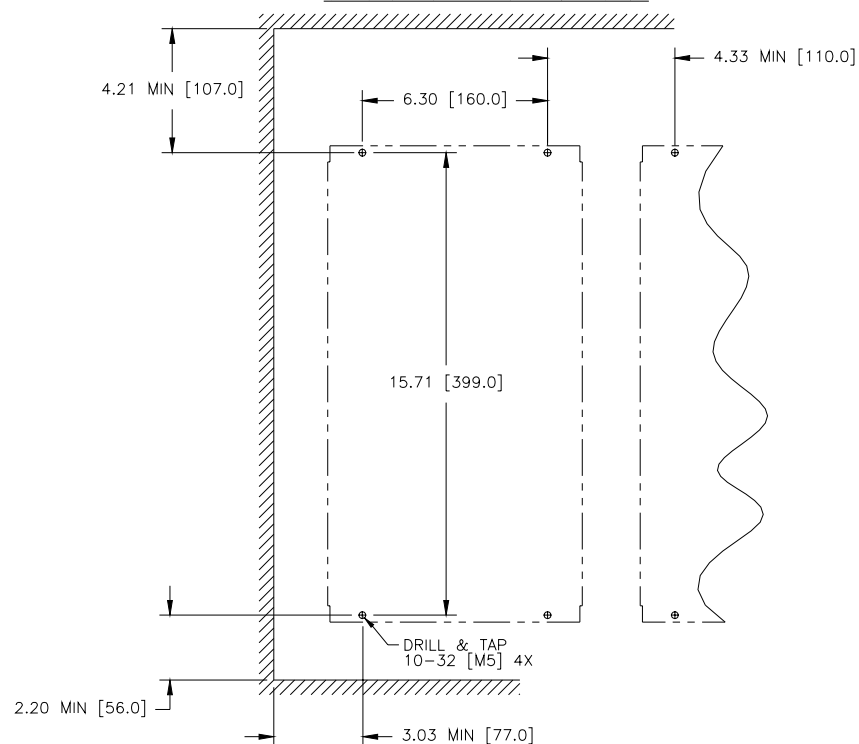
NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS THE FOLLOWING DRIVES:
DSD-115/EA, DSD-115/EAI AND DSD-115/RAI.



DATE	SYM	REVISION RECORD	DR	CK	CK
13SEP01	E	PER ECN 01-303	CWB	EB	CDR

MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

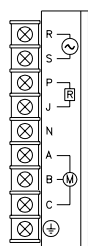
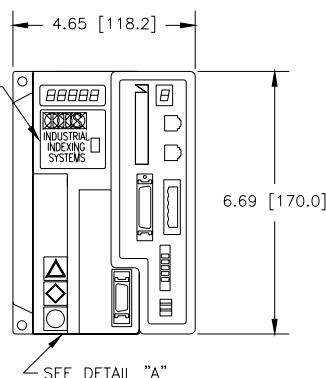
TITLE		DRIVE, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY		DRAWING NUMBER		
	BOWMAN		DSD-115/RA		
TOLERANCES		AutoCAD FILE LOCATION		DATE	
X.X ± ---		Q:\CURRENT DWGS		SCALE	
X.XX ± 0.01		DATE		SHEET NO.	
X.XXX ± 0.005		09APR98		1 OF 1	
ANGULAR		NTS		REVISION	
± 0°30'		B		E	

NOTES:

- 1.) MINIMUM CABINET DEPTH TO BE 12.00 [304.7].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-1.5/EA, DMAX-1.5/RAC, DMAX-1.5/RACS,
DMAX-1.5/RAD, DMAX-1.5/RAS AND DMAX-1.5/RB,
DMAX-1.5/RBD, DPRO-1.5/EA AND DPRO-1.5/EB,
DPRO-1.5/RAS AND DPRO-1.5/RB.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.

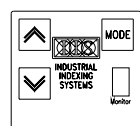


SEE NOTE 3

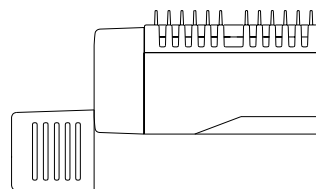
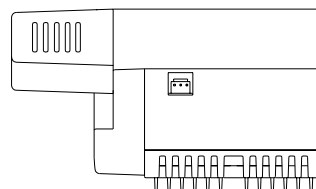
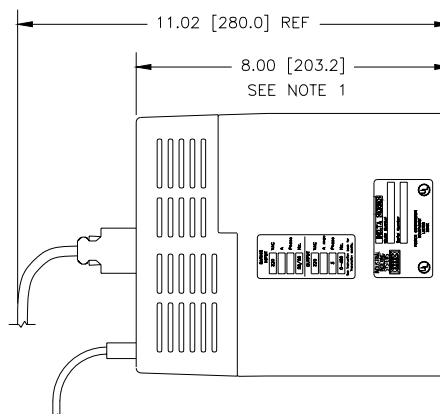


DETAIL A

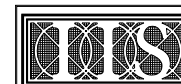
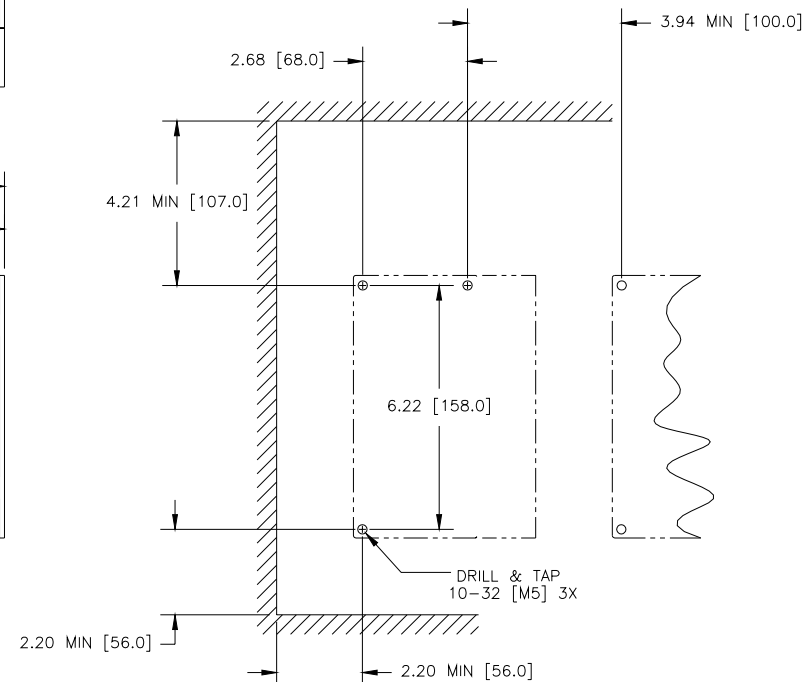
TERMINAL COVER OPEN



DETAIL B 



MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

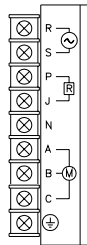
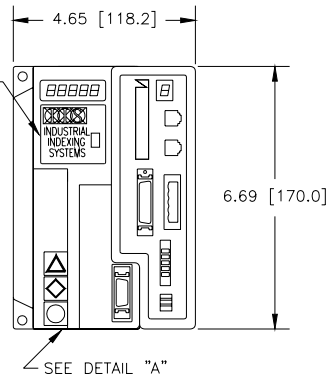
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
DELTAMAX/DELTAPRO SERIES					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	10AUG00	1 OF 1	A
X.XXX ± 0.005					

NOTES:

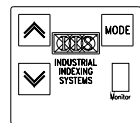
- 1.) MINIMUM CABINET DEPTH TO BE 12.00 [304.7].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-4.25/RAS, DMAX-4.25/RB, DMAX-4.25/RBS,
DPRO-4.25/EA, DPRO-4.25/EB AND DPRO-4.25/RB.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.

 SEE NOTE 3

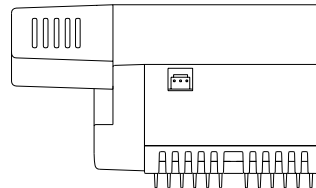
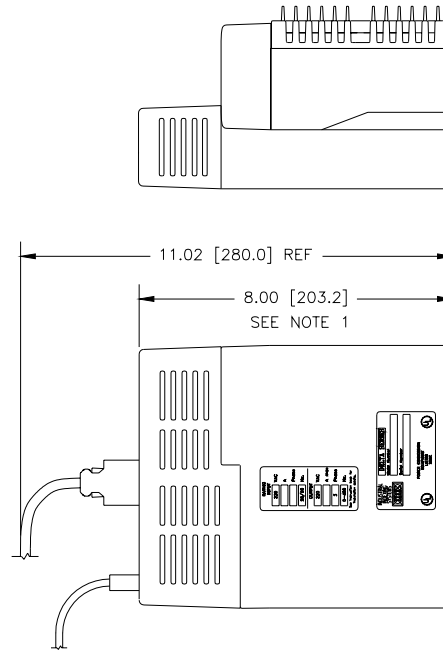


DETAIL A

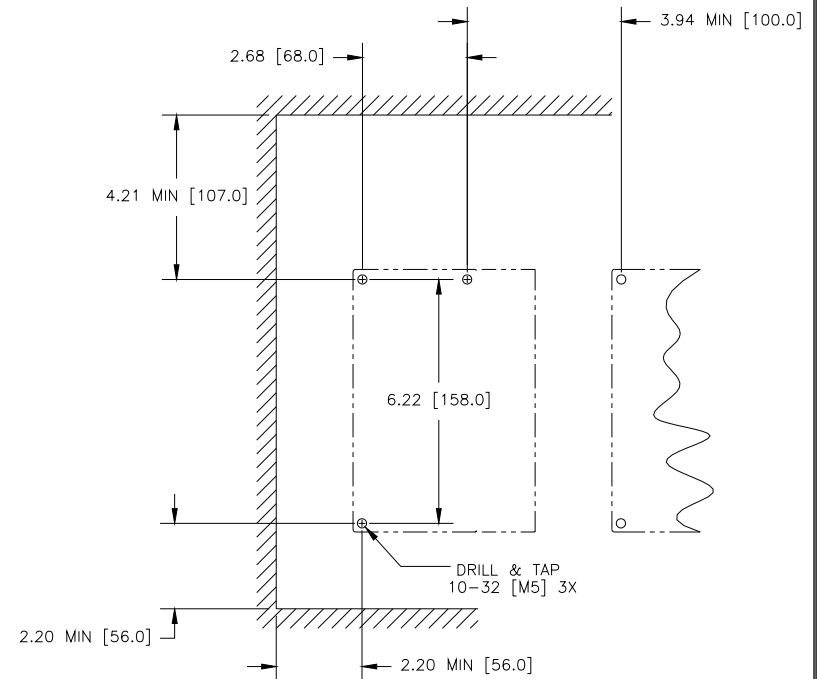
TERMINAL COVER OPEN



DETAIL B 



MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
DELTAMAX/DELTAPRO SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT		DWGS	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	04APR00	---	1 OF 1
X.XXX ± 0.005					B

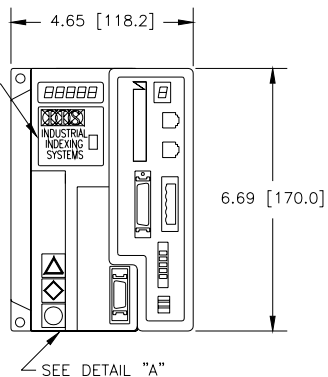
DMAX/DPRO-4.25/RA

NOTES:

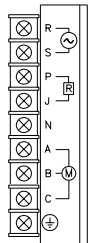
- 1.) MINIMUM CABINET DEPTH TO BE 12.00 [304.7].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-8.5/EA, DMAX-8.5/RAC, DMAX-8.5/RACS,
DMAX-8.5/RAD, DMAX8.5/RAS, DMAX-8.5/RB,
DMAX-8.5/RBD, DPRO-8.5/EA, DPRO-8.5/EB,
DPRO-8.5/RAS AND DPRO-8.5/RB.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.



SEE NOTE 3

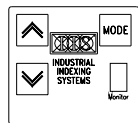


SEE DETAIL "A"

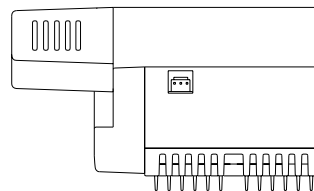
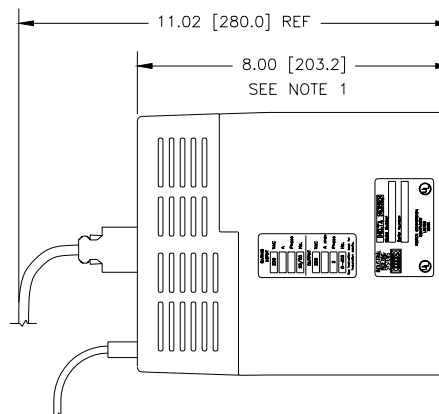


DETAIL A

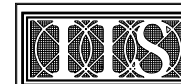
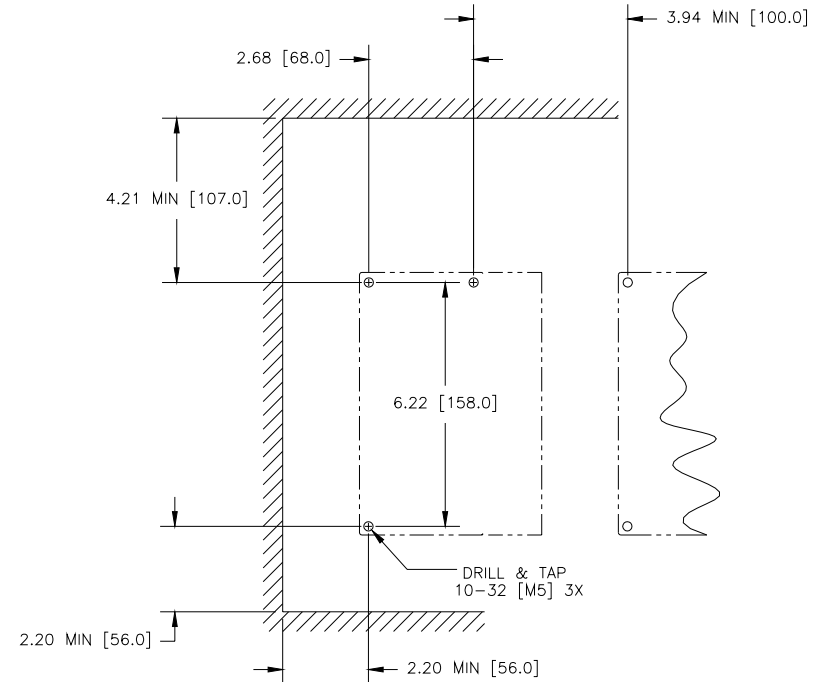
TERMINAL COVER OPEN



DETAIL B



MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

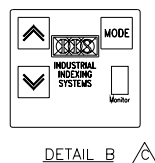
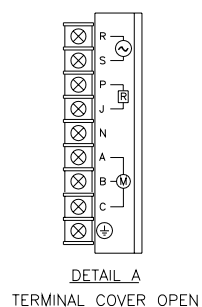
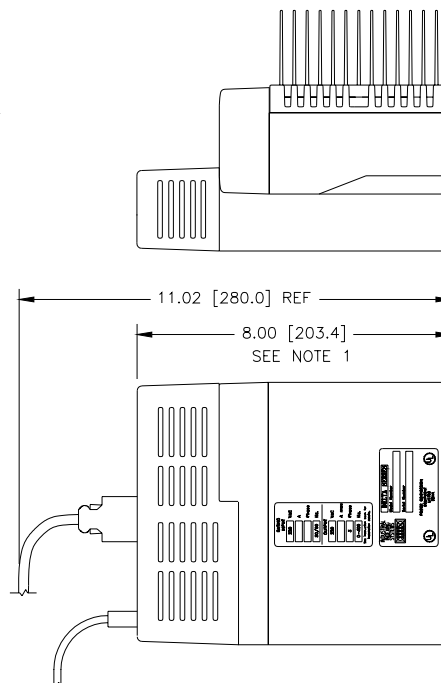
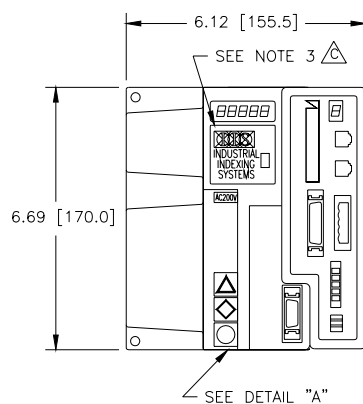
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

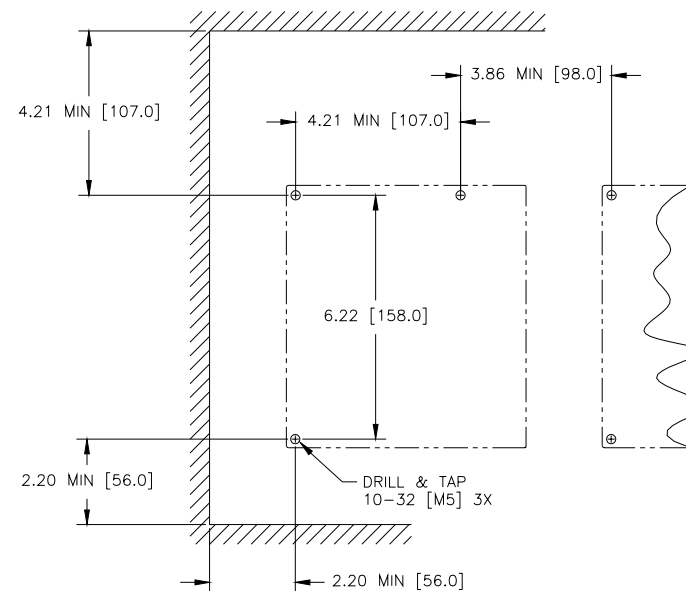
TITLE					
DELTAMAX/DELTAPRO SERIES					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT		DWGS DMAX/DPRO-8.5/RA	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	15MAY97	1 OF 1	C
X.XXX ± 0.005					

NOTES:

- 1.) MINIMUM CABINET DEPTH TO BE 12.00 [304.7].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-17.5/AA, DMAX-17.5/EA, DMAX-17.5/RAD,
DMAX-17.5/RAHS, DMAX-17.5/RAS AND DPRO-17.5/EA.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.

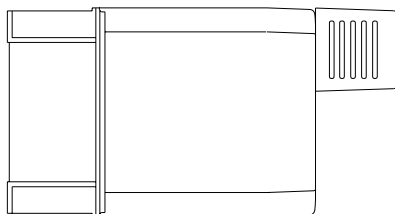


MOUNTING AND SPACING REQUIREMENTS



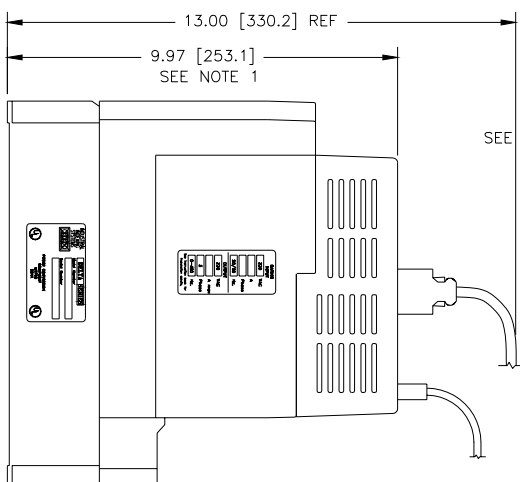
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE DELTAMAX/DELTAPRO SERIES			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR ± 0°30'	DATE 15MAY97	SCALE ---
X.XX ± 0.01		SHEET NO. 1 OF 1	REVISION C
X.XXX ± 0.005		DRAWING NUMBER DMAX/DPRO-17.5/RA	

DATE	SYM	REVISION RECORD	DR	CK	CK
17JUL01	C	PER ECN 01-235	CWB	EB	CDR

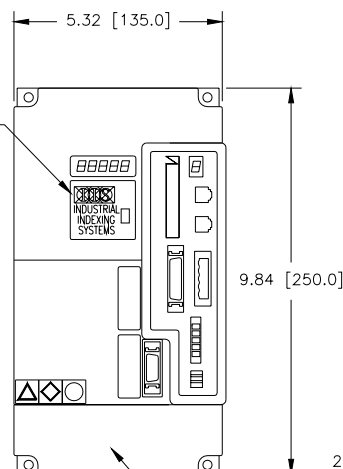


NOTES:

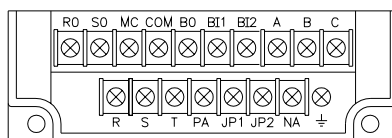
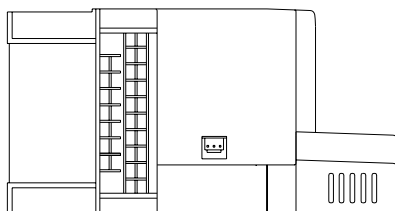
- 1.) MINIMUM CABINET DEPTH TO BE 14.00 [355.5].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-35/EA, DMAX-35/RAD, DPRO-35/EA
AND DPRO-35/RAS.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.



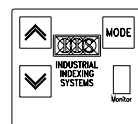
SEE NOTE 3



SEE DETAIL "A"



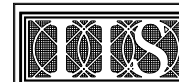
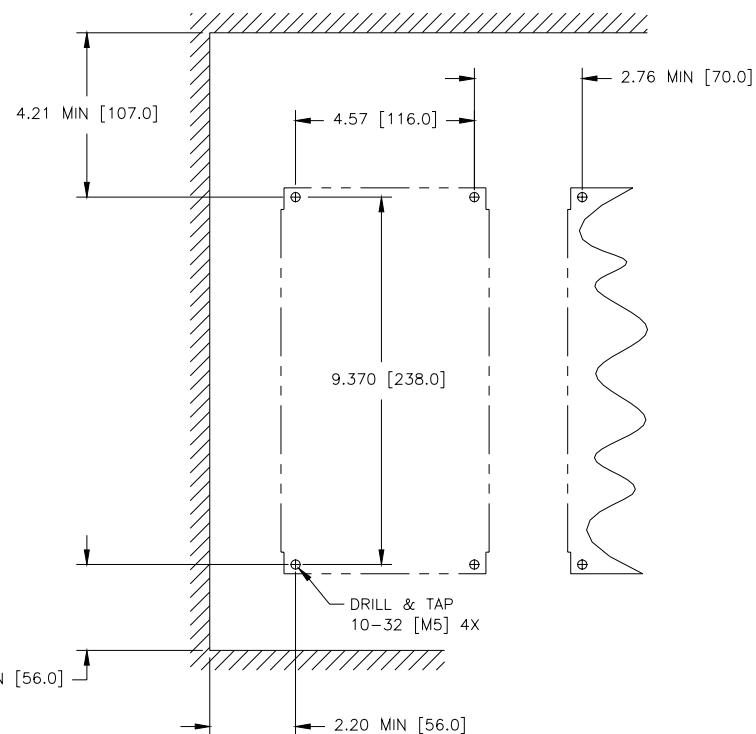
DETAIL A PROTECTIVE COVER REMOVED



DETAIL B

DATE	SYM	REVISION RECORD	DR	CK	CK
17JUL01	D	PER ECN 01-235	CWB	EB	CDR

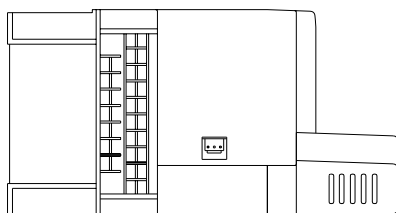
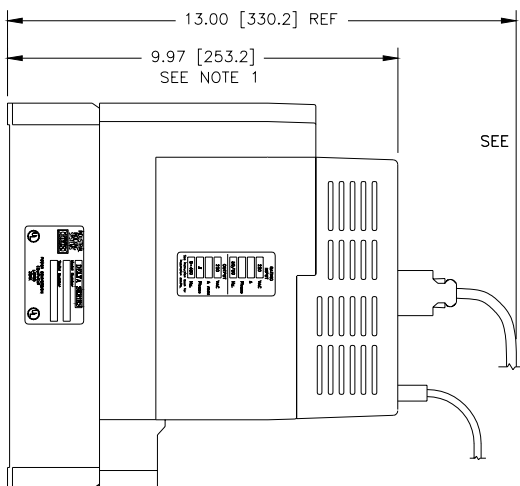
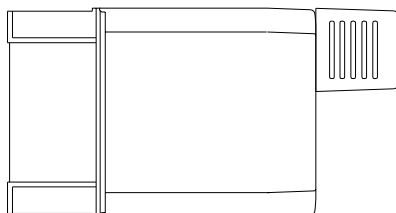
MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

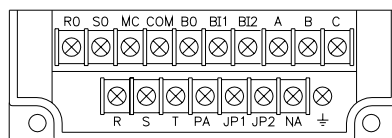
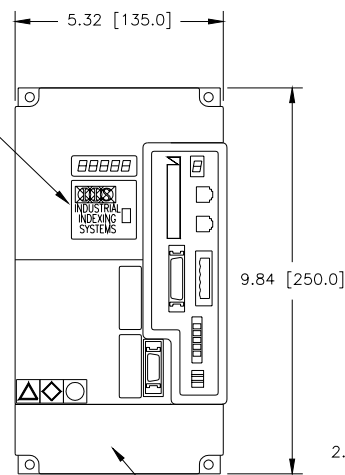
TITLE					
DELTAMAX/DELTAPRO SERIES					
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT		DWGS DMAX/DPRO-35/RA	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	15MAY97	1 OF 1	D
X.XXX ± 0.005					



NOTES:

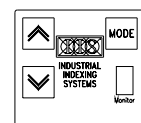
- 1.) MINIMUM CABINET DEPTH TO BE 14.00 [355.5].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-50/EA, DMAX-50/RAD, DMAX-50/RAS,
DPRO-50/EA AND DPRO-50/RAS.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.

SEE NOTE 3



DETAIL A 
PROTECTIVE COVER REMOVED

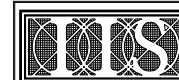
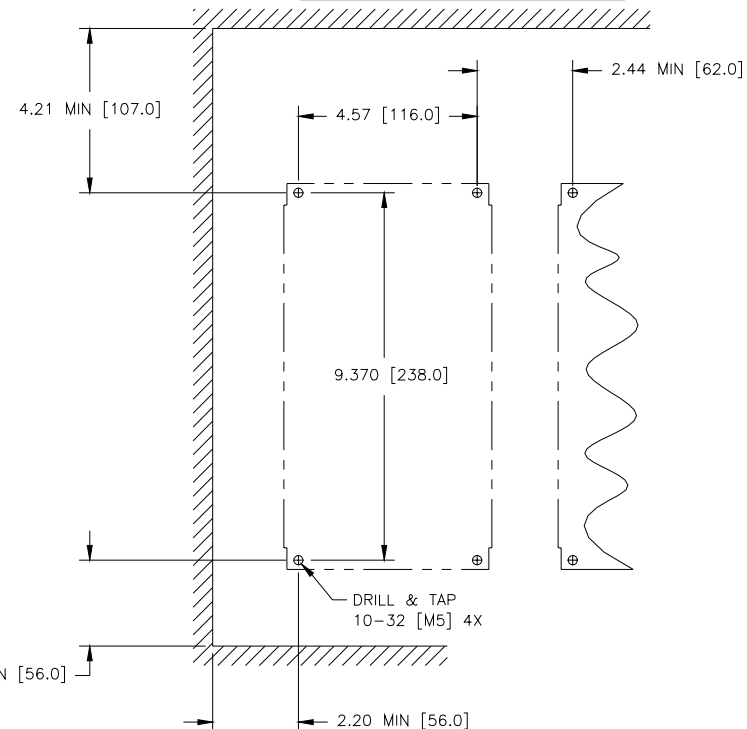
2.20 MIN [56.0]



DETAIL B 

DATE	SYM	REVISION RECORD	DR	CK	CK
17JUL01	D	PER ECN 01-235	CWB	EB	CDR

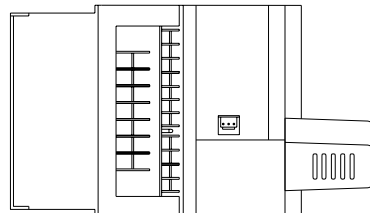
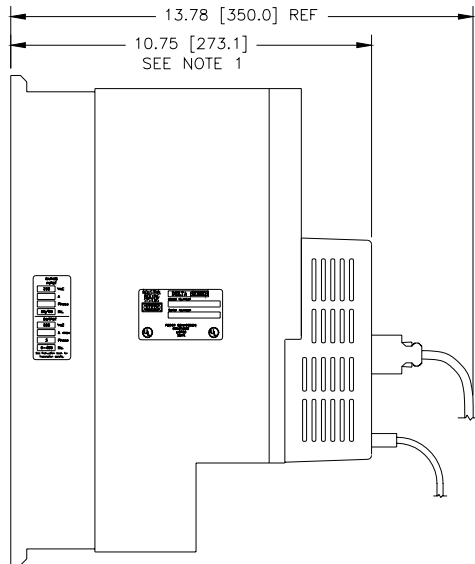
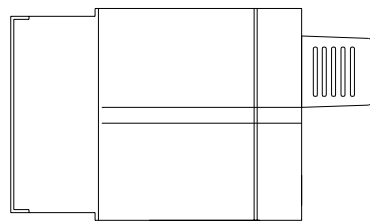
MOUNTING AND SPACING REQUIREMENTS



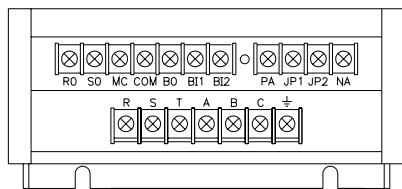
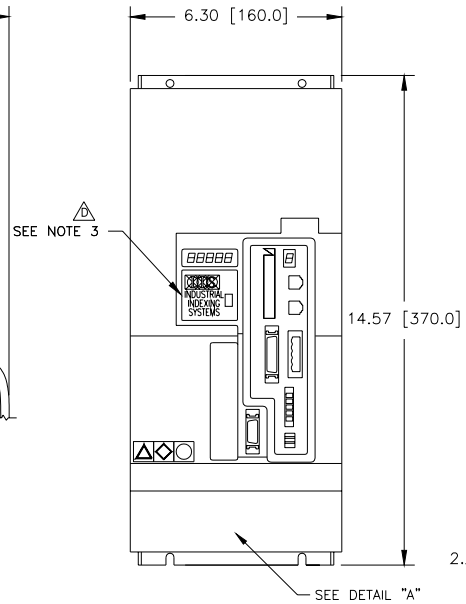
INDUSTRIAL INDEXING SYSTEMS, Inc.
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

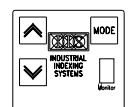
TITLE DELTAMAX/DELTAPRO SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DMAX/DPRO-50/RA	
X.X ± ---	ANGULAR ± 0°30'	DATE 15MAY97	SCALE ---	SHEET NO. 1 OF 1	REVISION D



- NOTES:  
- 1.) MINIMUM CABINET DEPTH TO BE 16.00 [406.3].
 - 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-70/EA, DMAX-70/RAD AND DPRO-70/EA.
 - 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.



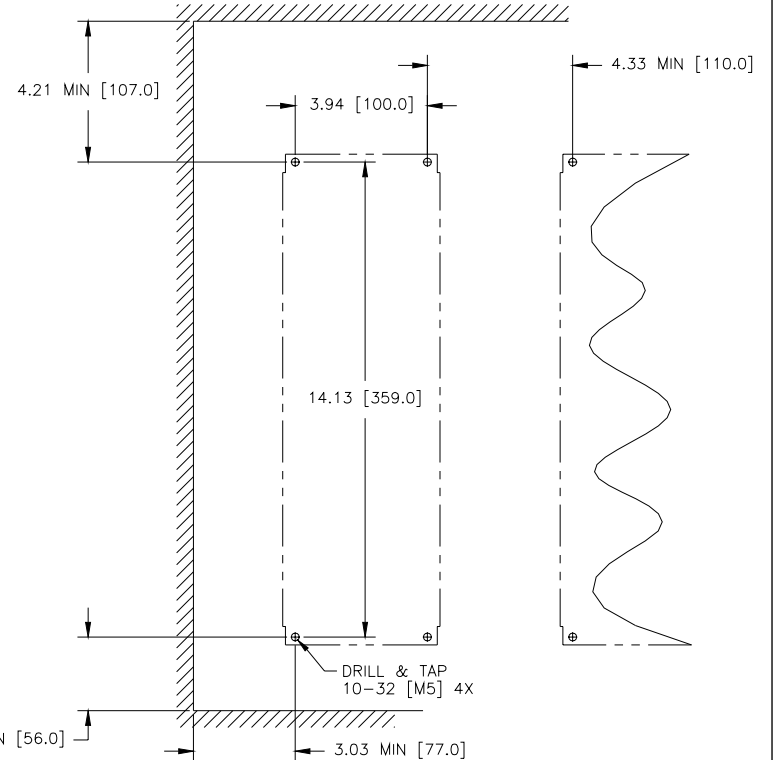
DETAIL A 
PROTECTIVE COVER REMOVED



DETAIL B 

DATE	SYM	REVISION RECORD	DR	CK	CK
17JUL01	D	PER ECN 01-235	CWB	EB	CDR

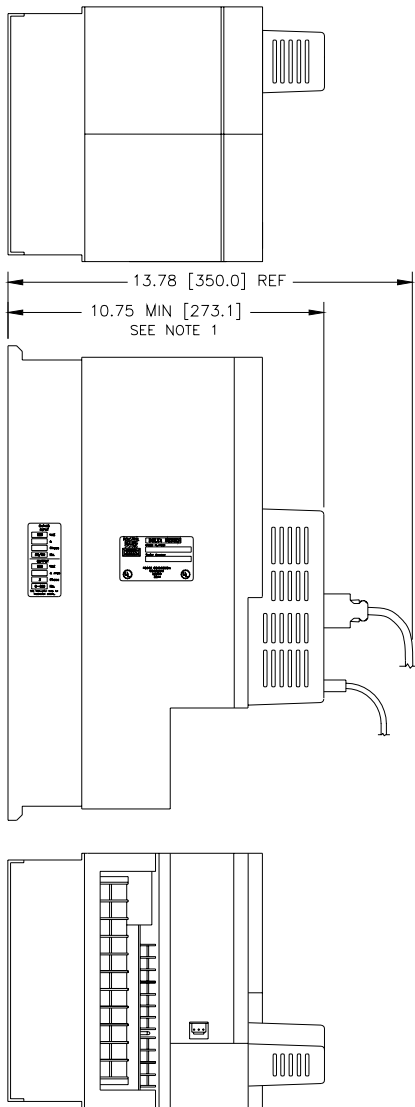
MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		DELTAMAX/DELTAPRO SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY	DRAWING NUMBER
TOLERANCES		BOWMAN	
X.X ± ---	ANGULAR	AutoCAD FILE LOCATION	Q:\CURRENT DWGS
X.XX ± 0.01	DATE	15MAY97	SCALE
X.XXX ± 0.005	± 0°30'		
		SHEET NO.	REVISION
		1 OF 1	D

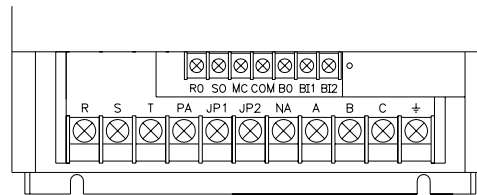


NOTES:

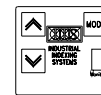
- 1.) MINIMUM CABINET DEPTH TO BE 16.00 [406.3].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DMAX-115/EA, DMAX-115/EAD, DMAX-115/RAD,
DMAX-115/RAI, DMAX-115/RAS AND DPRO-115/EA.
- 3.) KEYPAD OVERLAY SHOWN IS FOR DELTAPRO.
SEE DETAIL B FOR DELTAMAX KEYPAD.

SEE NOTE 3

SEE DETAIL "A"



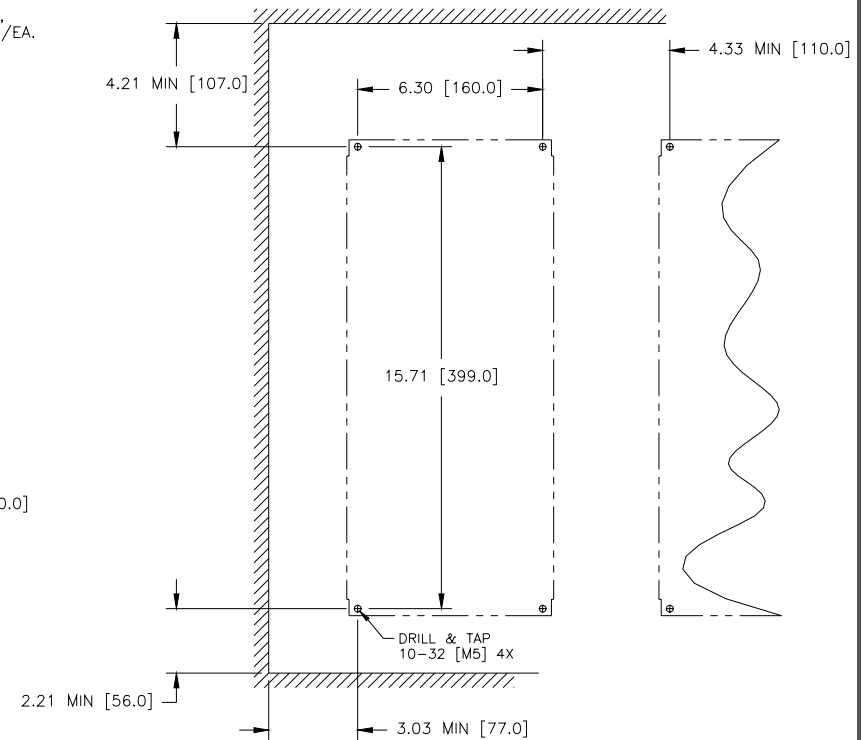
DETAIL A
PROTECTIVE COVER REMOVED



DETAIL B

DATE	SYM	REVISION RECORD	DR	CK	CK
17JUL01	D	PER ECN 01-235	CWB	EB	CDR

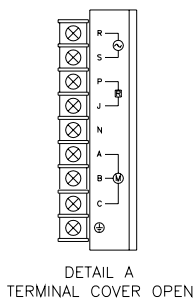
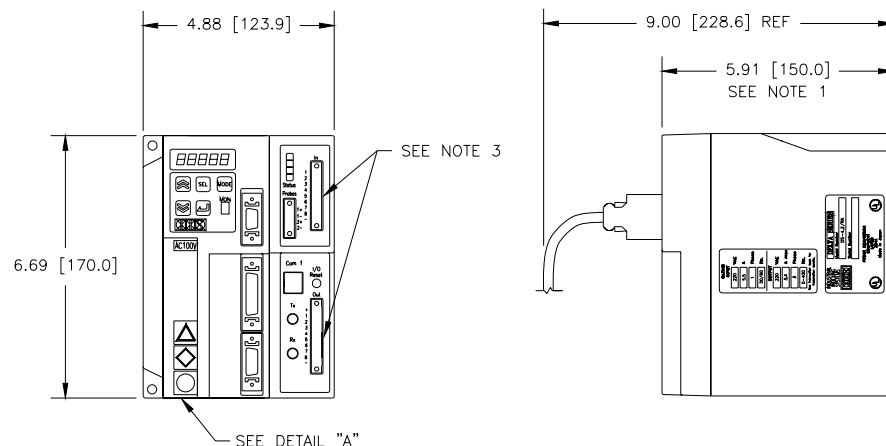
MOUNTING AND SPACING REQUIREMENTS



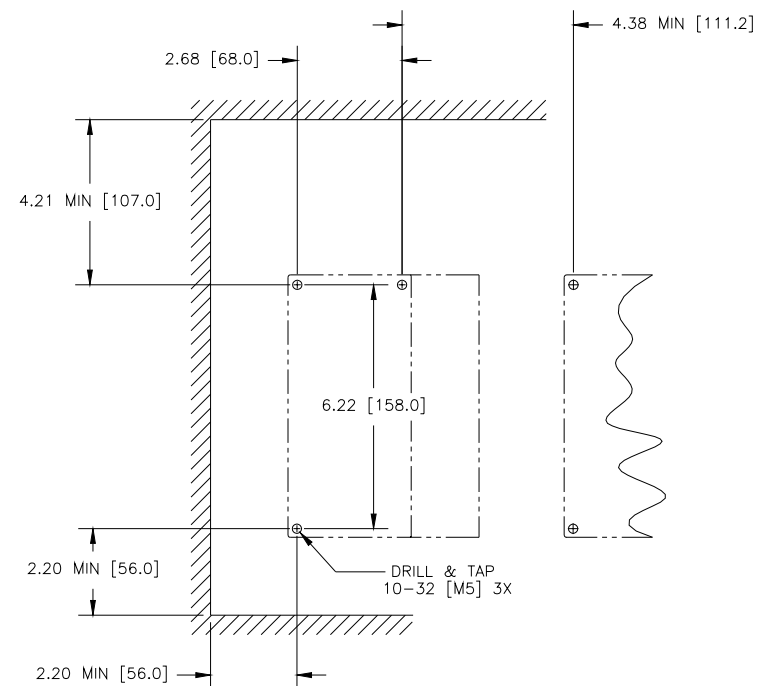
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
DELTAMAX/DELTAPRO SERIES			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY	
TOLERANCES		BOWMAN	
X.X ± ---		AutoCAD FILE LOCATION	
X.XX ± 0.01		Q:\CURRENT DWGS	
X.XXX ± 0.005		DMAX/DPRO-115/RA	
ANGULAR		DATE	
± 0°30'		B 15MAY97	
		SCALE	
		--- --	
		SHEET NO.	
		1 OF 1	
		REVISION	
		D	

NOTES: A

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-1.5/RAI, DS-1.5/RAJ, DS-1.5/RAK, DS-1.5/RAJ & DS-1.5/RAIK
DS-1.5/RB, DS-1.5/RBI, DS-1.5/RBJ, DS-1.5/RBK, DS-1.5/RBIJ &
DS-1.5/RBIK
DS-1.5/EA, DS-1.5/EAI, DS-1.5/EAJ, DS-1.5/EAK, DS-1.5/EAIJ &
DS-1.5/EAIK
DS-1.5/EB, DS-1.5/EBI, DS-1.5/EBJ, DS-1.5/EBK, DS-1.5/EBIJ &
DS-1.5/EBIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



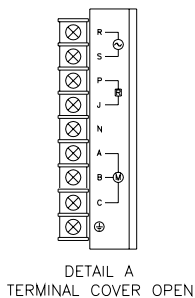
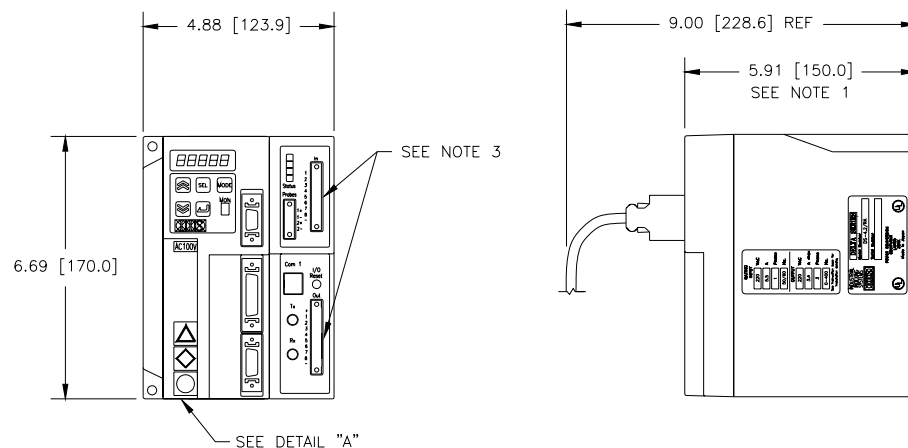
MOUNTING AND SPACING REQUIREMENTS



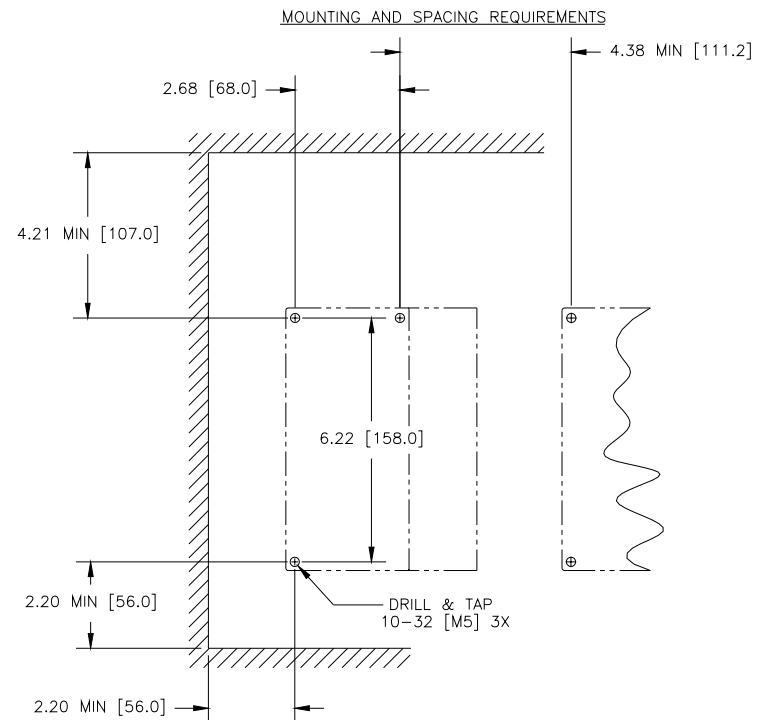
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE		DRIVE, DELTA S SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)	DRAWN BY	DRAWING NUMBER	
TOLERANCES	AutoCAD FILE LOCATION	DS-1.5/RA	
X.X ± ---	Q:\CURRENT DWGS		
X.XX ± 0.01	DATE	SHEET NO.	REVISION
X.XXX ± 0.005	10AUG00	1 OF 1	A

NOTES:  

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
 DS-4.25/RAI, DS-4.25/RAJ, DS-4.25/RAK, DS-4.25/RAIJ & DS-4.25/RAIK
 DS-4.25/RB, DS-4.25/RBI, DS-4.25/RBJ, DS-4.25/RBK, DS-4.25/RBIJ &
 DS-4.25/RBIK
 DS-4.25/EA, DS-4.25/EAI, DS-4.25/EAJ, DS-4.25/EAK, DS-4.25/EAIJ &
 DS-4.25/EAIK
 DS-4.25/EB, DS-4.25/EBI, DS-4.25/EBJ, DS-4.25/EBK, DS-4.25/EBIJ &
 DS-4.24/EBIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



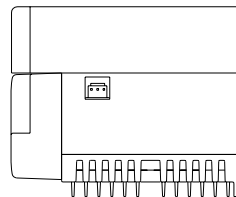
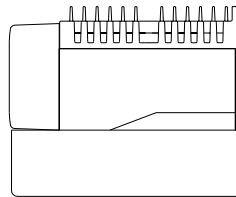
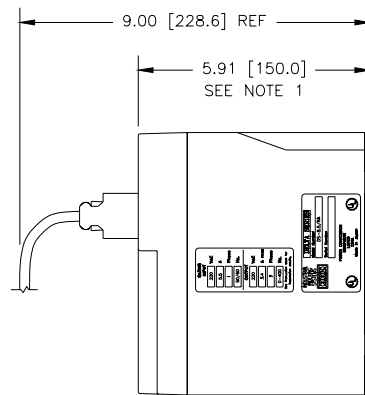
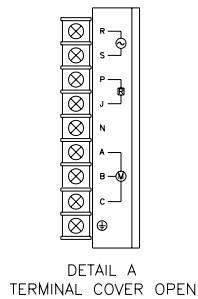
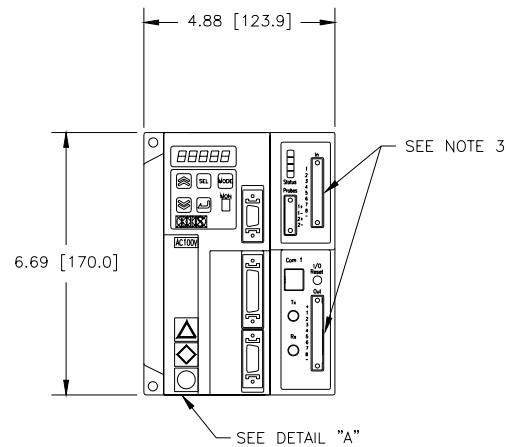
DATE	SYM	REVISION RECORD	DR	CK	CK
20JAN03	B	PER ECN 02-327	CWB		



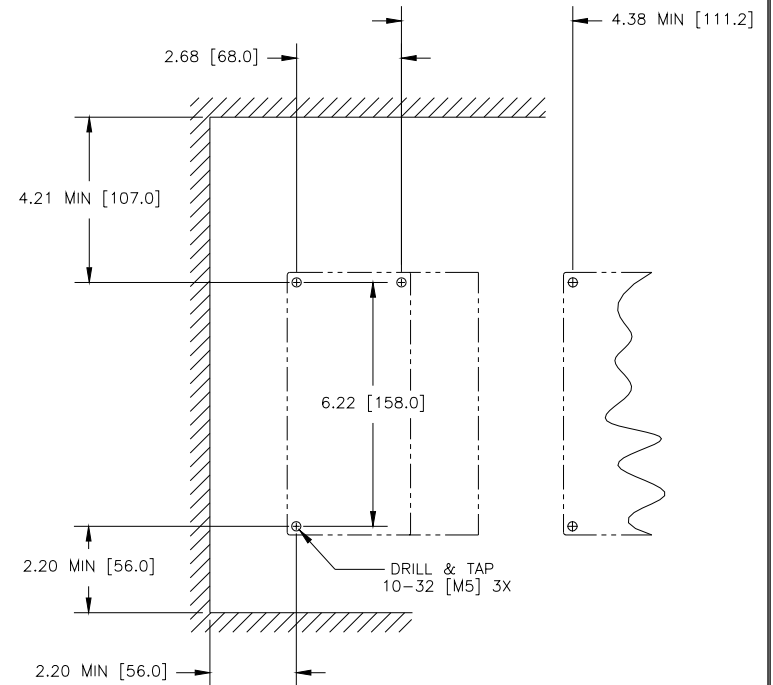
 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.	
		TITLE DRIVE, DELTA S SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DS-4.25/RA	
TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005	ANGLAR ± 0°30'	AutoCAD FILE LOCATION Q:\CURRENT DWGS DATE 17MAR00	SCALE --- SHEET NO. 1 OF 1 REVISION B

NOTES:

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-8.5/RAI, DS-8.5/RAJ, DS-8.5/RAK, DS-8.5/RAIJ & DS-8.5/RAIK
DS-8.5/RB, DS-8.5/RBI, DS-8.5/RBJ, DS-8.5/RBK, DS-8.5/RBIJ &
DS-8.5/RBIK
DS-8.5/EA, DS-8.5/EAI, DS-8.5/EAJ, DS-8.5/EAK, DS-8.5/EAIJ &
DS-8.5/EAIK
DS-8.5/EB, DS-8.5/EBI, DS-8.5/EBJ, DS-8.5/EBK, DS-8.5/EBIJ &
DS-8.5/EBIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



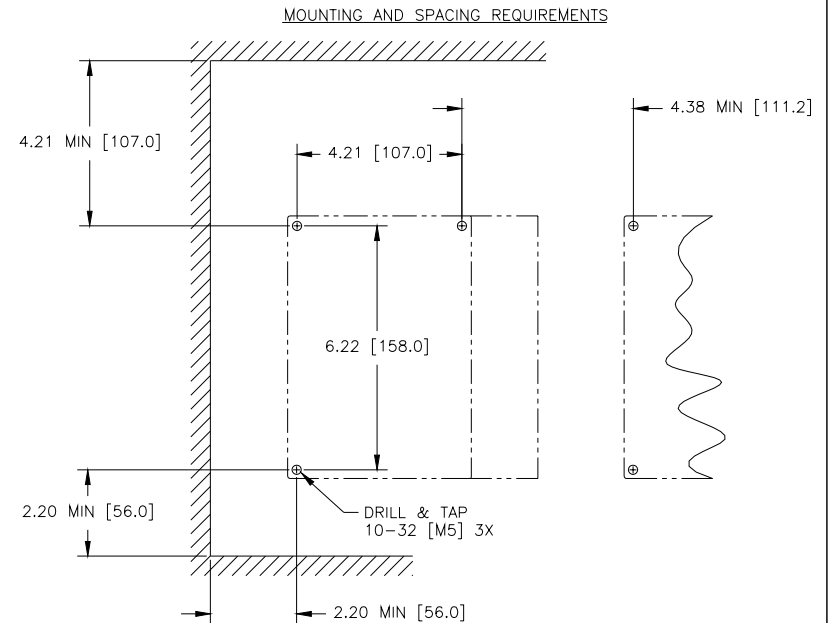
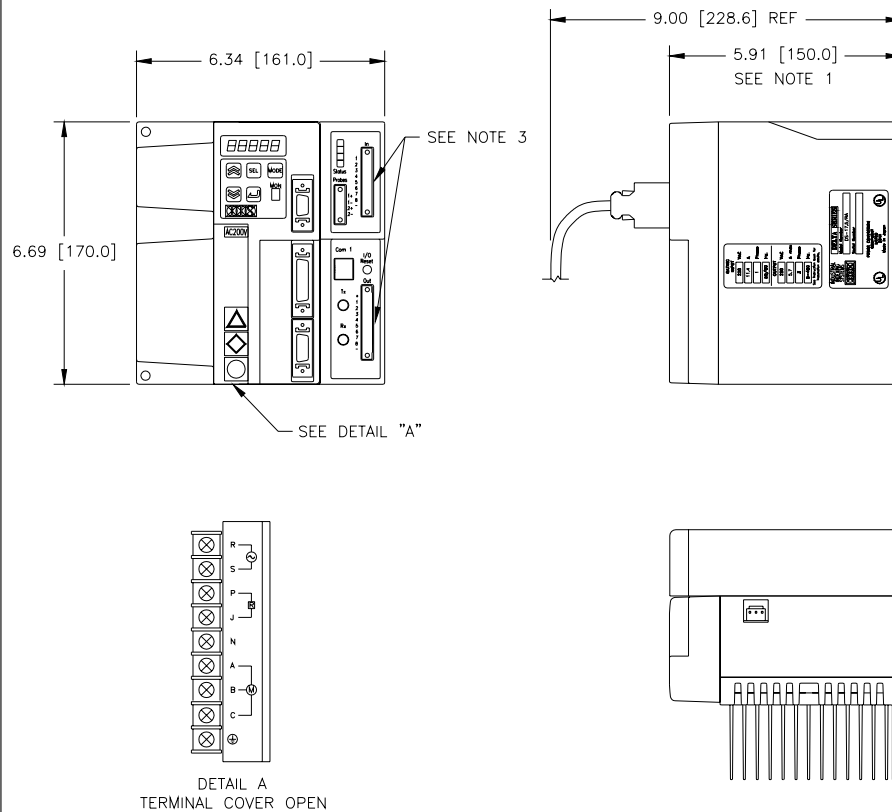
MOUNTING AND SPACING REQUIREMENTS



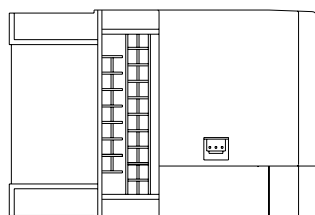
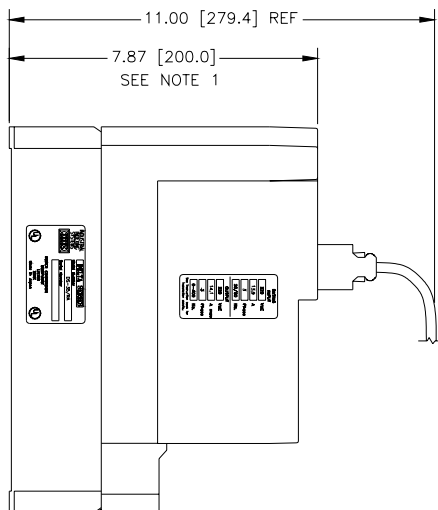
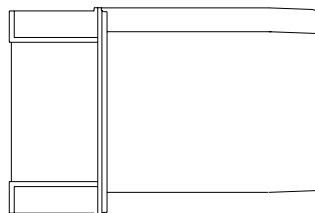
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE DRIVE, DELTA S SERIES			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± .001	ANGULAR ± 0°30'	DATE 20JUL00	SCALE ---
		DRAWING NUMBER DS-8.5/RA	
		SHEET NO. 1 OF 1	
		REVISION B	

NOTES: A B

- 1.) RECOMMENDED CABINET DEPTH TO BE 10.00 [254.0].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-17.5/RAI, DS-17.5/RAJ, DS-17.5/RAK, DS-17.5/RAIJ &
DS-17.5/RAIK
DS-17.5/EA, DS-17.5/EAI, DS-17.5/EAJ, DS-17.5/EAK,
DS-17.5/EAIJ & DS-17.5/EAIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").

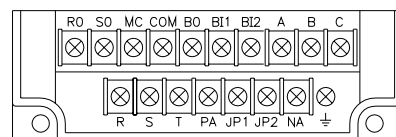
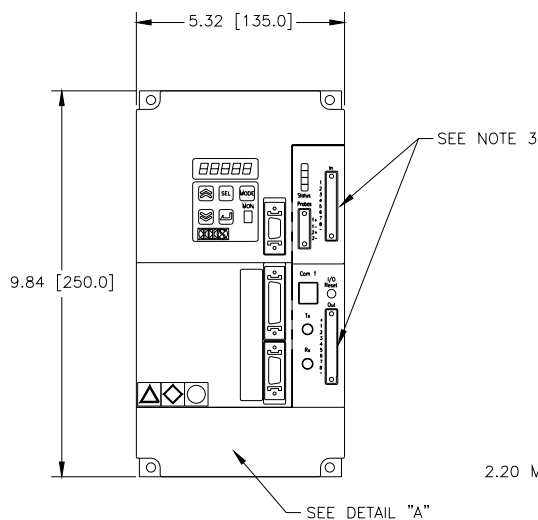


		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
DRIVE, DELTA S SERIES			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR ± 0°30'	DATE 17MAR00	
X.XX ± 0.01		SCALE ---	
X.XXX ± 0.005		SHEET NO. 1 OF 1	
		REVISION B	



NOTES:

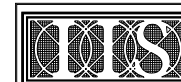
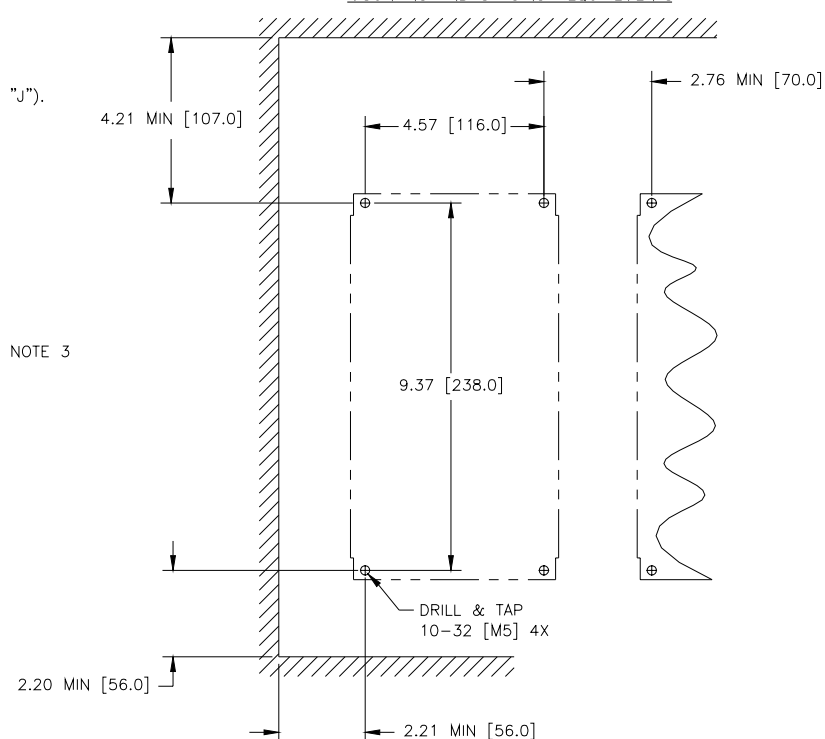
- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-35/RAI, DS-35/RAJ, DS-35/RAK, DS-35/RAIJ &
DS-35/RAIK
DS-35/EA, DS-35/EAI, DS-35/EAJ, DS-35/EAK,
DS-35/EAIJ & DS-35/EAIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



DETAIL A PROTECTIVE COVER REMOVED

DATE	SYM	REVISION RECORD	DR	CK	CK
20JAN03	B	PER ECN 02-237	CWB		

MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

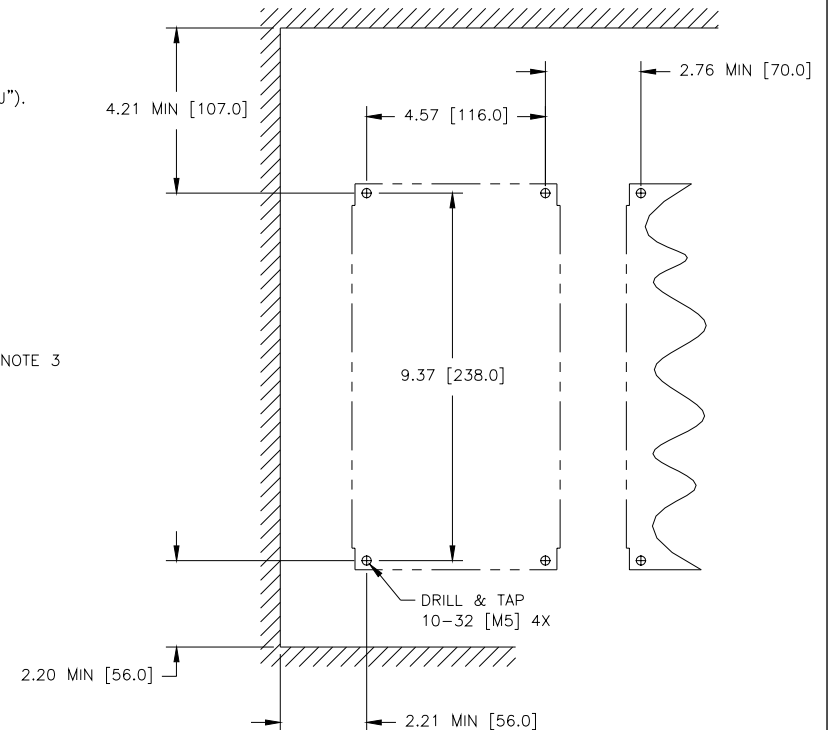
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		DRIVE, DELTA S SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY	DRAWING NUMBER
TOLERANCES		BOWMAN	
X.X ± ---	ANGULAR	AutoCAD FILE LOCATION	DS-35/RA
X.XX ± 0.01	± 0°30'	Q:\CURRENT	DWGS
X.XXX ± 0.005		DATE	SCALE
		17MAR00	---
		SHEET NO.	REVISION
		1 OF 1	B

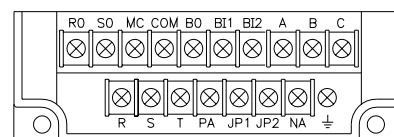
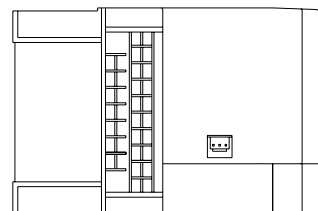
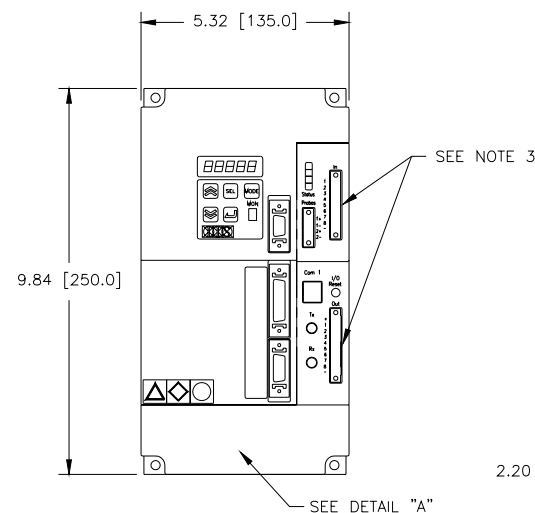
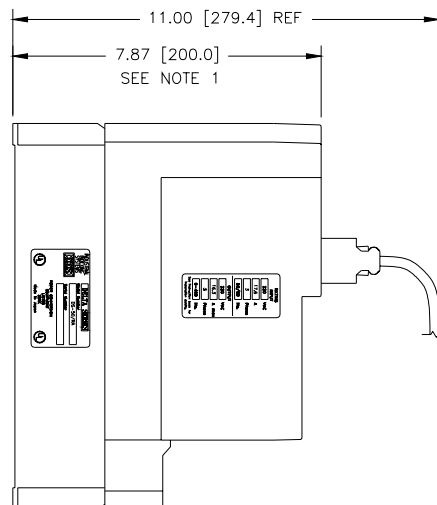
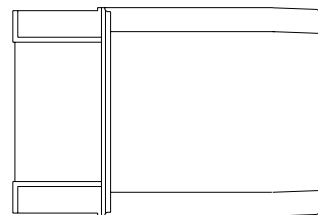
DATE	SYM	REVISION RECORD	DR	CK	CK
20JAN03	B	PER ECN 02-327	CWB		

MOUNTING AND SPACING REQUIREMENTS



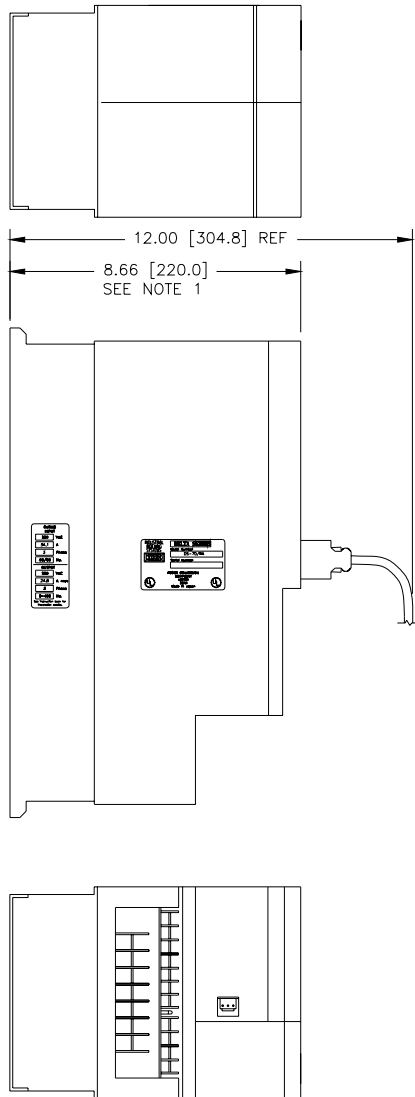
NOTES: A B

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-50/RAI, DS-50/RAJ, DS-50/RAK, DS-50/RAIJ &
DS-50/RAIK
DS-50/EAI, DS-50/EAJ, DS-50/EAK, DS-50/EAIJ &
DS-50/EAIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



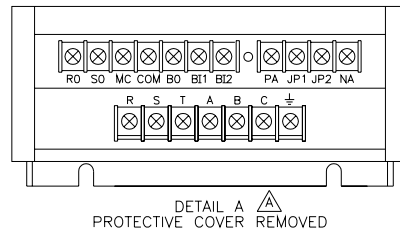
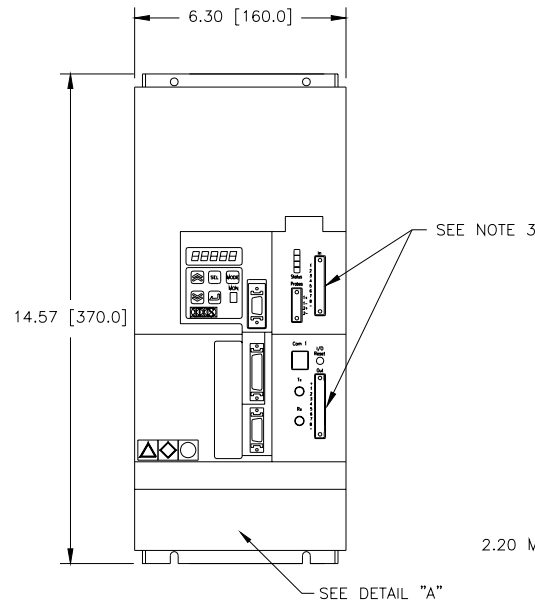
DETAIL A
PROTECTIVE COVER REMOVED

		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE		DRIVE, DELTA S SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR ± 0°30'	DATE 17MAR00	SCALE ---
X.XX ± 0.01		SHEET NO. 1 OF 1	REVISION B
X.XXX ± 0.005			

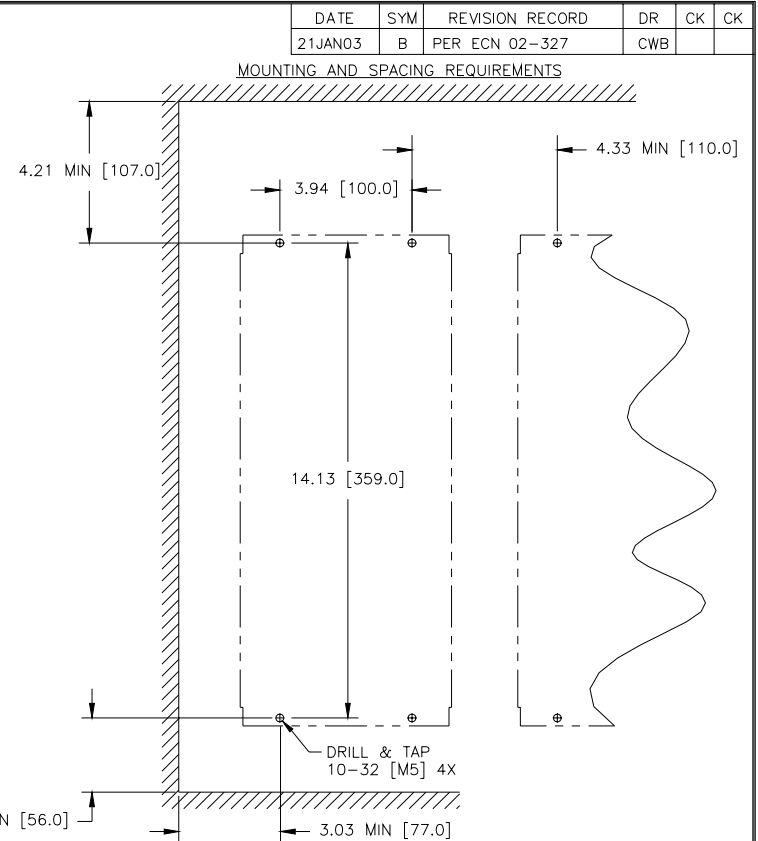


NOTES: $\triangle$ $\triangle$

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-70/RAI, DS-70/RAJ, DS-70/RAK, DS-70/RAIJ &
DS-70/RAIK
DS-70/EA, DS-70/EAI, DS-70/EAIJ, DS-70/EAK,
DS-70/EAIJ & DS-70/EAIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



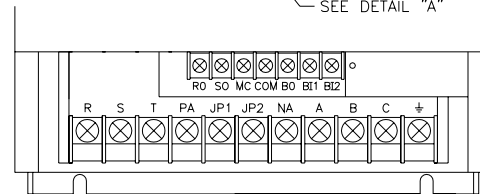
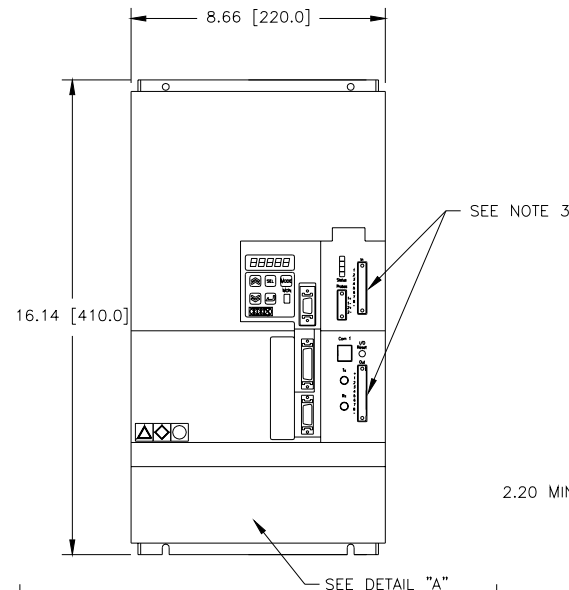
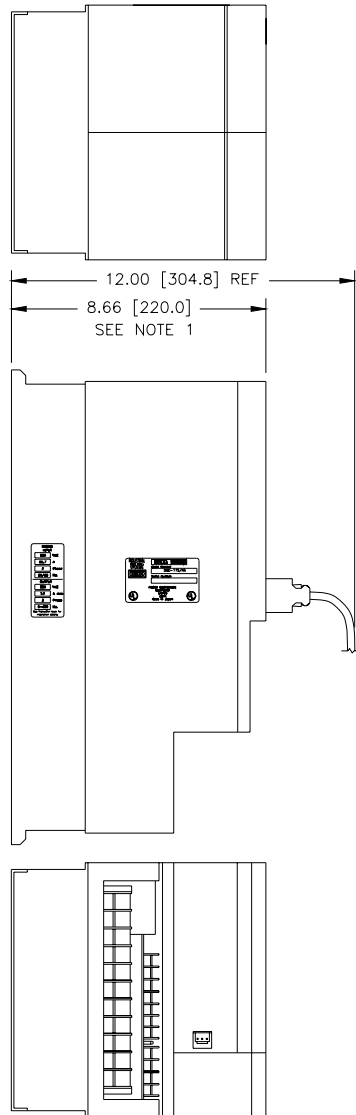
DETAIL A $\triangle$
PROTECTIVE COVER REMOVED



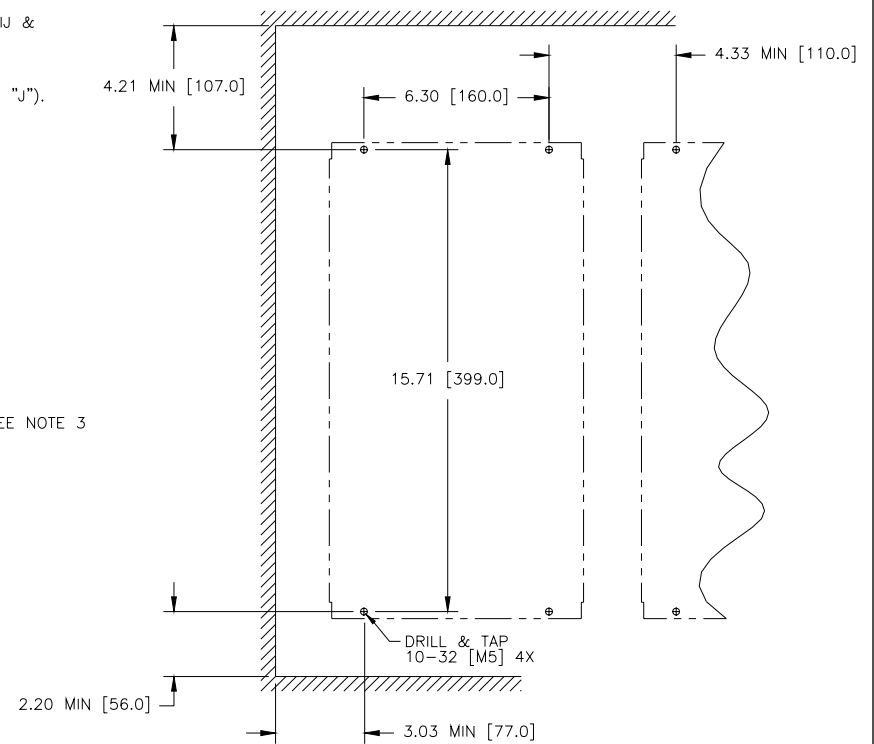
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
DRIVE, DELTA S SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DS-70/RA	
X.XX ± 0.01	± 0°30'	DATE 17MAR00	
X.XXX ± 0.005		SCALE ---	
		SHEET NO. 1 OF 1	
		REVISION B	

NOTES: $\triangle$ / $\triangle$

- 1.) RECOMMENDED CABINET DEPTH TO BE 12.00 [304.8].
- 2.) THIS DRAWING ALSO COVERS PRODUCTS:
DS-115/RAI, DS-115/RAJ, DS-115/RAK, DS-115/RAU &
DS-115/RAIK
DS-115/EA, DS-115/EAI, DS-115/EAJ, DS-115/EAK,
DS-115/EAIJ & DS-115/EAIK
- 3.) SHOWN WITH OPTIONAL I/O BOARD INSTALLED (OPTION "J").



MOUNTING AND SPACING REQUIREMENTS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		DRIVE, DELTA S SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DS-115/RA
X.X ± ---	ANGULAR	DATE	SHEET NO.
X.XX ± 0.01	± 0°30'	17MAR00	1 OF 1
X.XXX ± 0.005		SCALE	REVISION
		---	B

A.6 RESOLVER MOTOR DIMENSIONS

DRAWING NUMBER

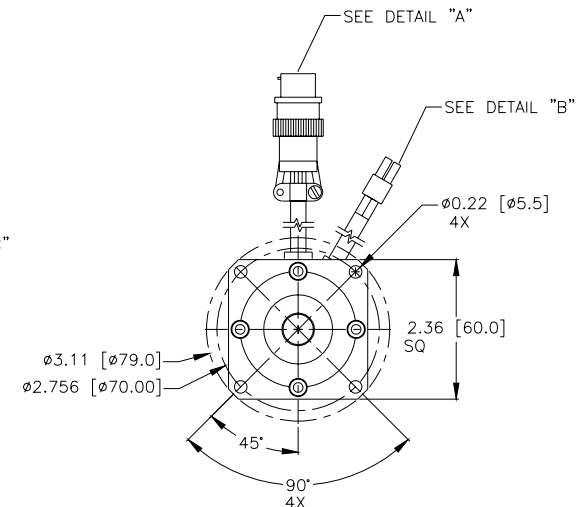
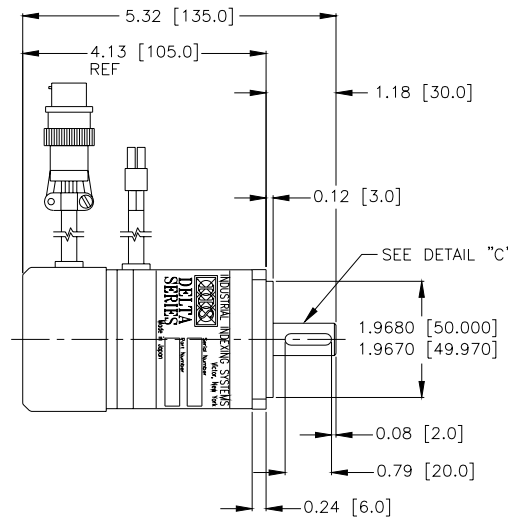
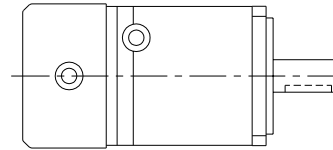
DESCRIPTION

DBM-120/30R	Brushless Delta Series Motor
DBM-200/30R	Brushless Delta Series Motor
DBM-400/15R	Brushless Delta Series Motor
DBM-400/30R	Brushless Delta Series Motor
DBM-500/30R	Brushless Delta Series Motor
DBM-800/15R	Brushless Delta Series Motor
DBM-800/30R	Brushless Delta Series Motor
DBM-800/30RA	Brushless Delta Series Absolute Motor
DBM-1000/15R	Brushless Delta Series Motor
DBM-1360/30R	Brushless Delta Series Motor
DBM-1400/30R	Brushless Delta Series Motor
DBM-1500/15R	Brushless Delta Series Motor
DBM-1500/15R1X	Brushless Delta Series Motor
DBM-1800/30R	Brushless Delta Series Motor
DBM-2400/30R	Brushless Delta Series Motor
DBM-2600/15R	Brushless Delta Series Motor
DBM-3700/15R	Brushless Delta Series Motor
DBM-3700/30R	Brushless Delta Series Motor
DBM-3740/20R1X	Brushless Delta Series Motor
DBM-4200/20R	Brushless Delta Series Motor
DBM-5000/15R	Brushless Delta Series Motor
DBM-5500/30R	Brushless Delta Series Motor
DBM-6100/10R	Brushless Delta Series Motor
DBM-6500/30R	Brushless Delta Series Motor
DBM-7500/20R	Brushless Delta Series Motor
DBM-8600/22R	Brushless Delta Series Motor
DBM-10000/20R	Brushless Delta Series Motor
DBM-10300/15R	Brushless Delta Series Motor
DBM-13500/15R	Brushless Delta Series Motor
DBM-14300/13R	Brushless Delta Series Motor
DBM-B380/30R	Brushless Delta Series Motor
DBM-B380/30R1X	Brushless Delta Series Motor
DBM-B630/30R	Brushless Delta Series Motor
DBM-B630/30R1X	Brushless Delta Series Motor
DBM-B800/30R	Brushless Delta Series Motor
DBM-B1060/30R	Brushless Delta Series Motor
DBM-B1600/30R	Brushless Delta Series Motor
DBM-B1900/30R	Brushless Delta Series Motor
DBM-B3000/30R	Brushless Delta Series Motor
DBM-B3950/20R	Brushless Delta Series Motor
DBM-B4400/30R	Brushless Delta Series Motor
DBM-B5600/30R	Brushless Delta Series Motor
DBM-D30/30R	Brushless Delta Series Motor
DBM-D50/30R	Brushless Delta Series Motor
DBM-D100/30R	Brushless Delta Series Motor
DBM-D200/30R	Brushless Delta Series Motor
DBM-D400/30R	Brushless Delta Series Motor
DBM-D600/30R	Brushless Delta Series Motor
DBM-D800/30R	Brushless Delta Series Motor

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR

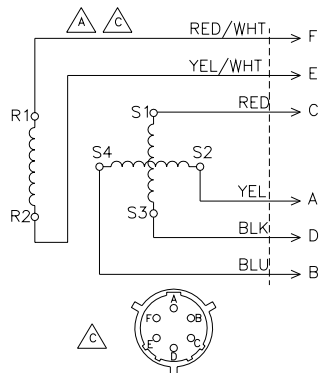
NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 1.1 KG 2.4 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 49 N 11 LBS
- 6.) RADIAL LOAD 147 N 33 LBS
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-30 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12"±2" [305±50].



DETAIL A

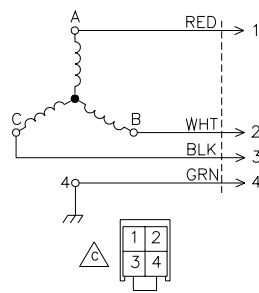
RESOLVER CONNECTION
ITT/CANON KPT01 J10 6P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F-10-6S

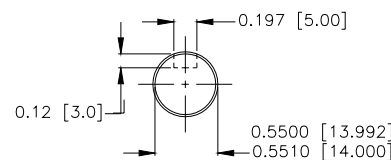
DETAIL B

ARMATURE CONNECTION
MOLEX 39-01-3049



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: 39-01-2045

DETAIL C

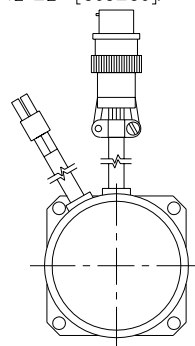


		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		DRAWING NUMBER	
X.X ± ---	ANGULAR	DBM-120/30R	
X.XX ± 0.01	± 0°30'	AutoCAD FILE LOCATION	
X.XXX ± 0.005		Q:\CURRENT DWGS	
B		DATE	SCALE
24APR96		NTS	SHEET NO.
		1 OF 1	REVISION
			E

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR

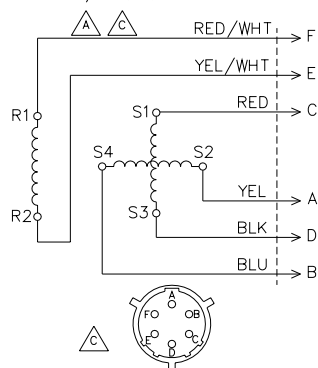
NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 1.4 KG 3.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 74 N 16 LBS
- 6.) RADIAL LOAD 186 N 41 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-30 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12"±2" [305±50].



DETAIL A

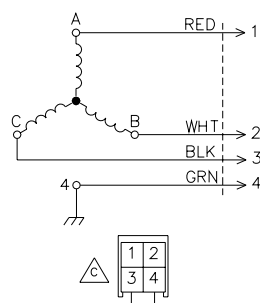
RESOLVER CONNECTION
ITT/CANON KPT01 J10 6P



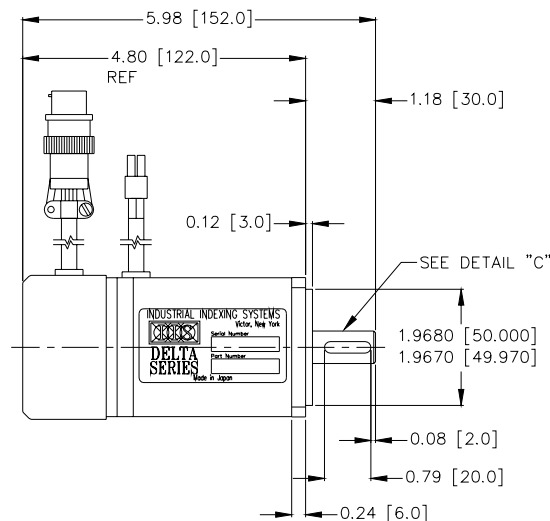
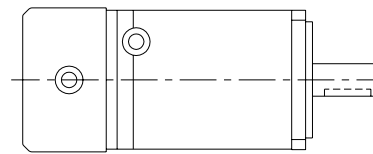
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F-10-6S

DETAIL B

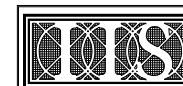
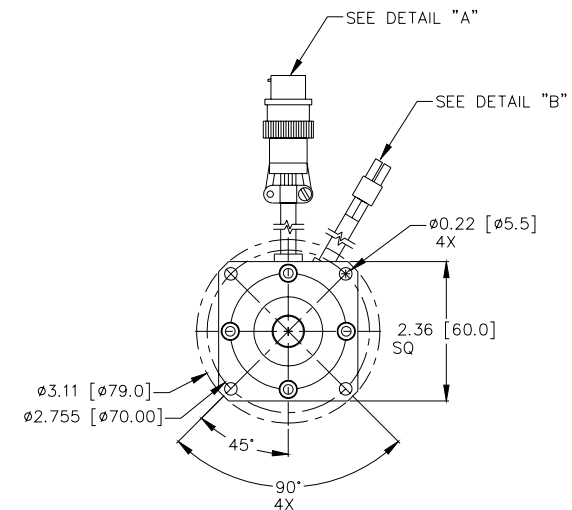
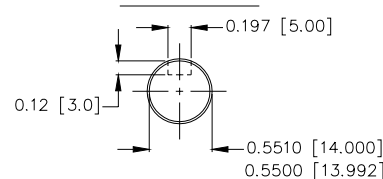
ARMATURE CONNECTION
MOLEX 39-01-3049



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: 39-01-2045



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

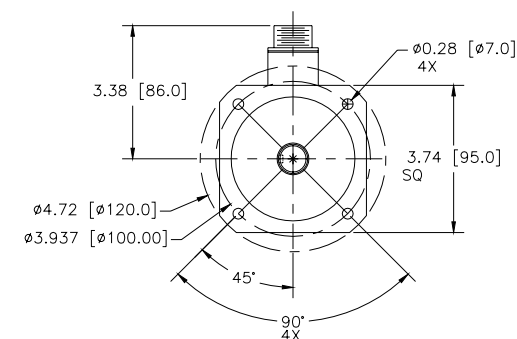
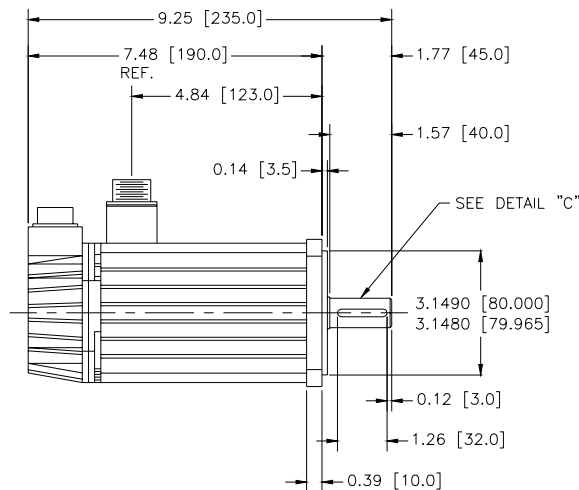
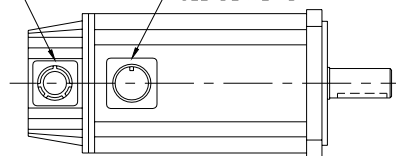
TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-200/30R	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X±---	ANGULAR	DATE 24APR96	SCALE NTS	REVISION E	
X.XX±0.01	± 0° 30'				
X.XXX±0.005					

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 4.5 KG 9.9 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 559 N 126 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

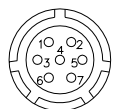
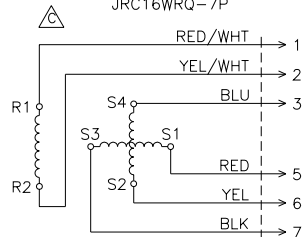
SEE DETAIL "A"

SEE DETAIL "B"



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

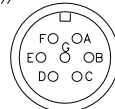
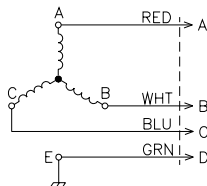


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

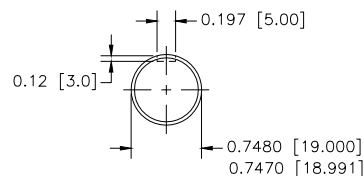
ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR

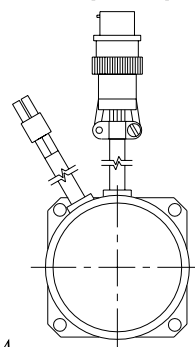


THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-400/15R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B 15FEB96	NTS	1 OF 1	E
X.XXX ± 0.005					

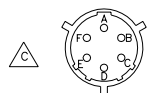
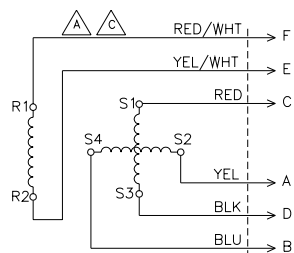
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 2.0 KG 4.4 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 84 N 18 LBS
- 6.) RADIAL LOAD 196 N 44 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-30 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12 ± 2 [305±50].



DETAIL A

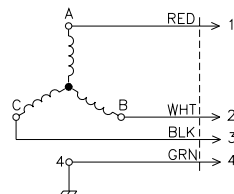
RESOLVER CONNECTION
ITT/CANON KPT01 J10 6P



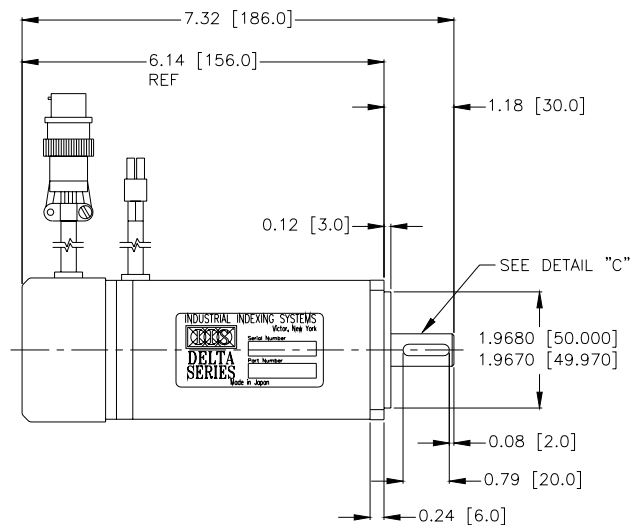
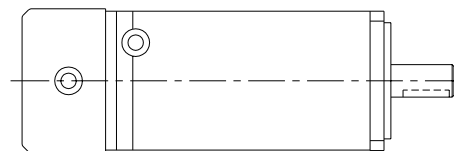
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F-10-6S

DETAIL B

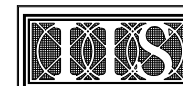
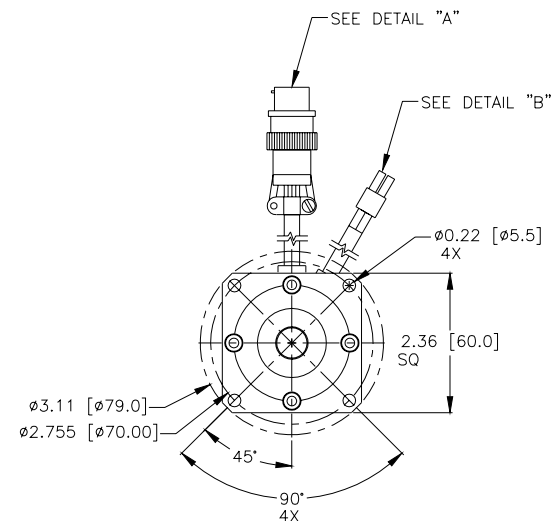
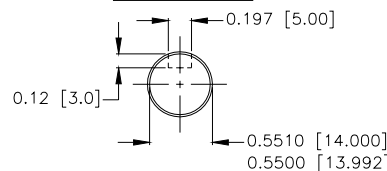
ARMATURE CONNECTION
MOLEX 39-01-3049



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: 39-01-2045



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

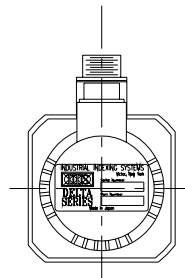
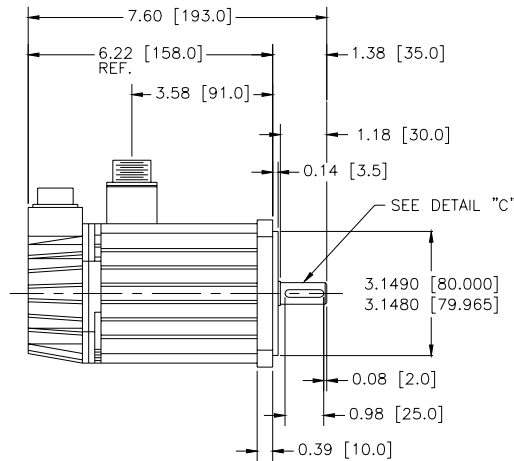
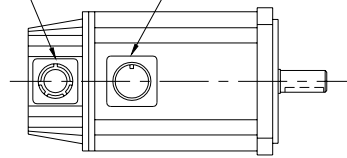
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-400/30R
X.X±---	ANGULAR	DATE	SCALE
X.XX±0.01	± 0° 30'	24APR96	NTS
X.XXX±0.005			
		SHEET NO.	REVISION
		1 OF 1	E

NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 3.2 KG 7.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 49 N 11 LBS
- 6.) RADIAL LOAD 284 N 64 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

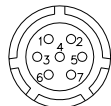
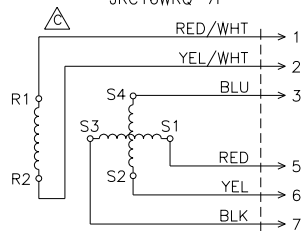
SEE DETAIL "A"

SEE DETAIL "B"



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

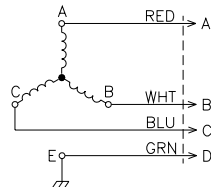


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

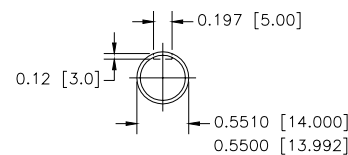
ARMATURE CONNECTION
MS3102A16S-1P



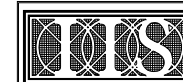
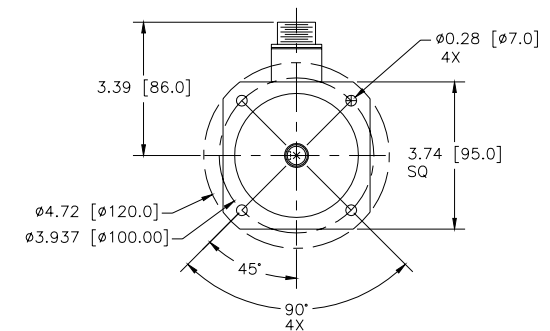
VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

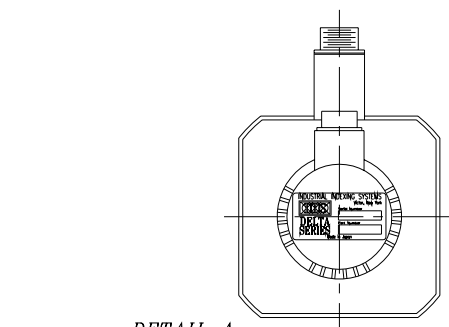
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-500/30R	
X.X ± .001	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	20FEB96	NTS	1 OF 1	E
X.XXX ± 0.005					

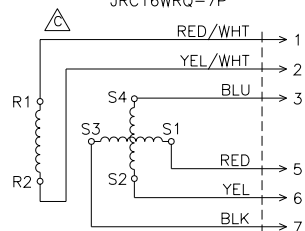
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 6.2 KG 13.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 27 LBS
- 6.) RADIAL LOAD 647 N 145 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

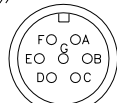
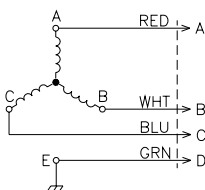
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR

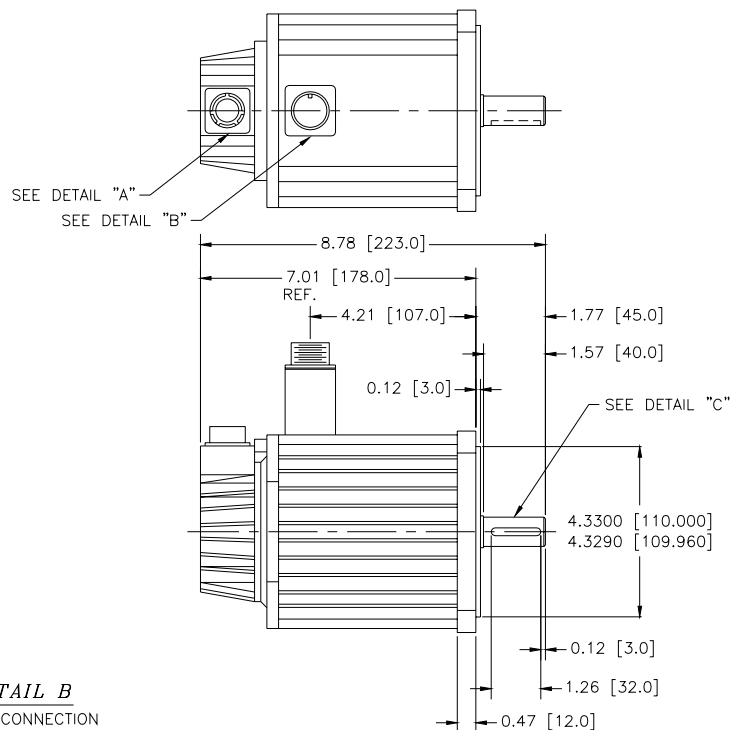
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B
ARMATURE CONNECTION
JA3102A20-15PC-F0

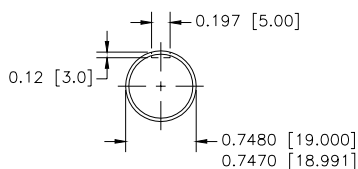


VIEW OF CONNECTOR

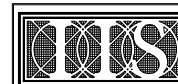
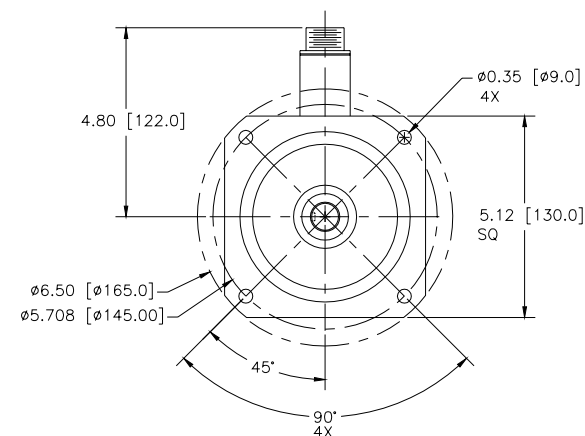
MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

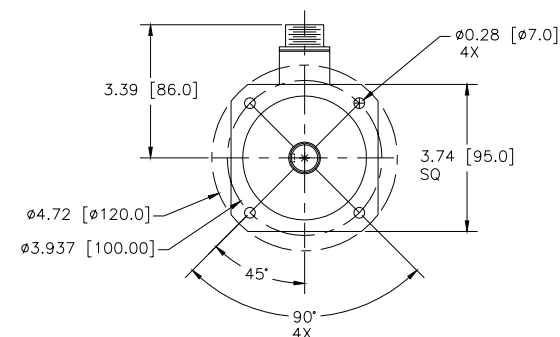
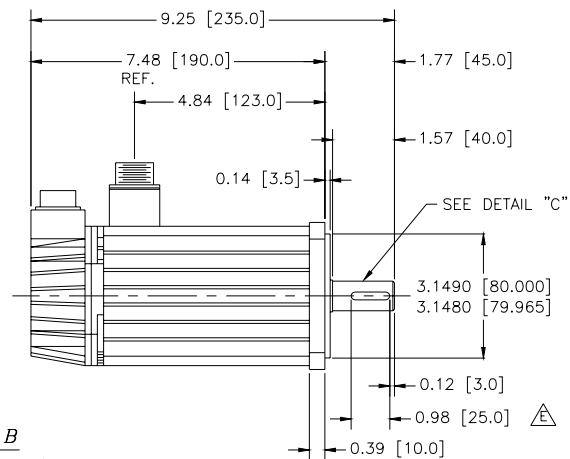
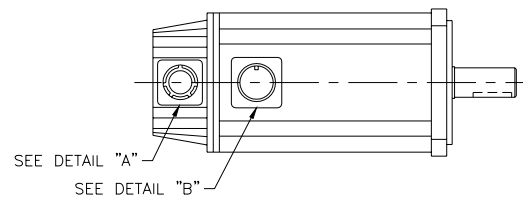
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-800/15R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	NTS	1 OF 1	E
X.XXX ± 0.005		20FEB96			

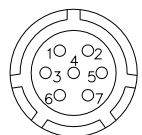
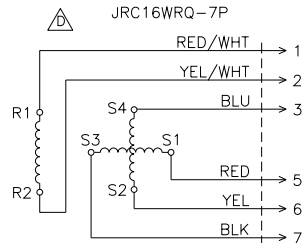
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 4.5 KG 9.9 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 88 N 20 LBS
- 6.) RADIAL LOAD 441 N 99 LBS
- 7.) RESOLVER 2X 24000 PPR,
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

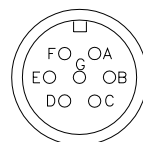
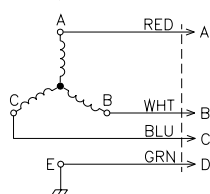
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

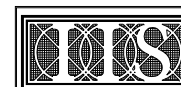
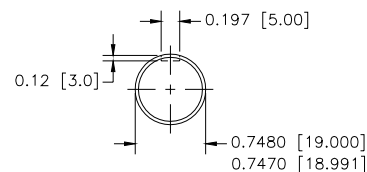
DETAIL B

ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

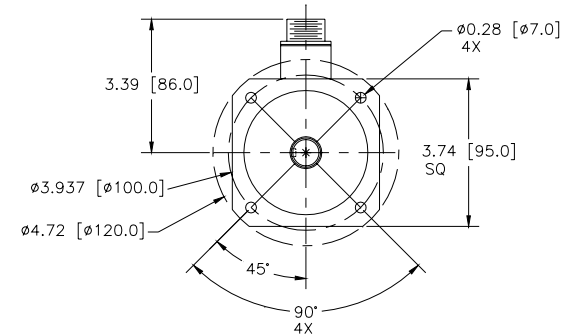
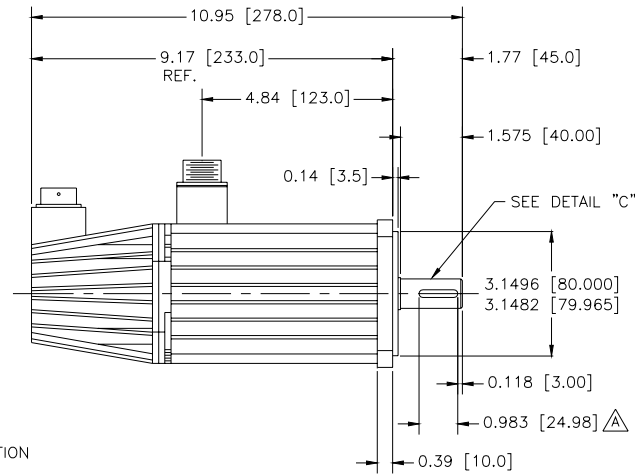
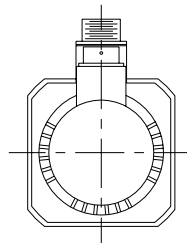
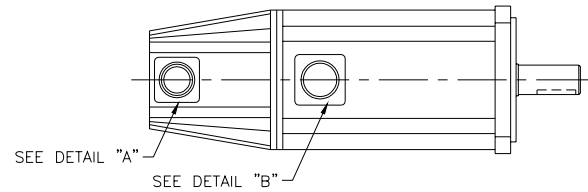
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

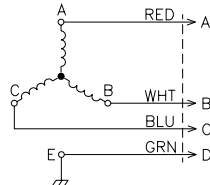
TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-800/30R	
X.X±---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX±0.01	± 0°30'	B	NTS	1 OF 1	H
X.XXX±0.005		21FEB96			

NOTES:

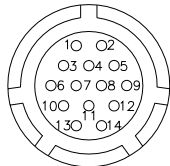
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 4.7 KG 10.3 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 88 N 20 LBS
- 6.) RADIAL LOAD 441 N 99 LBS



DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P

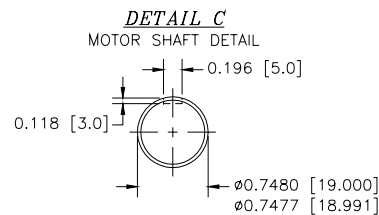


DETAIL A
RESOLVER/ENCODER CONNECTION
JRC16WRQ-14P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JRC16WPQ-14S

VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

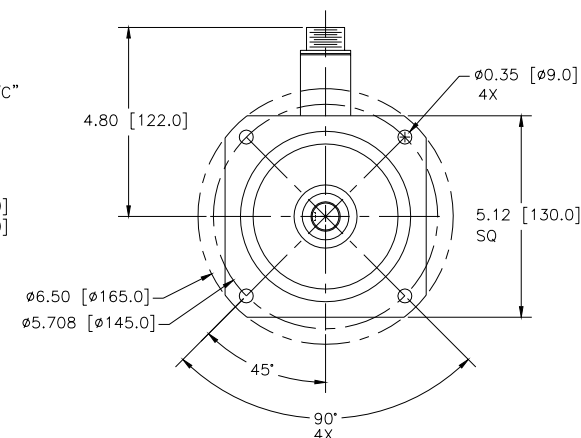
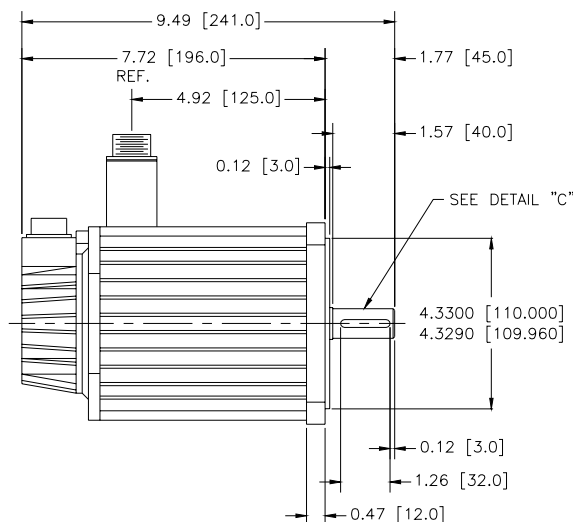
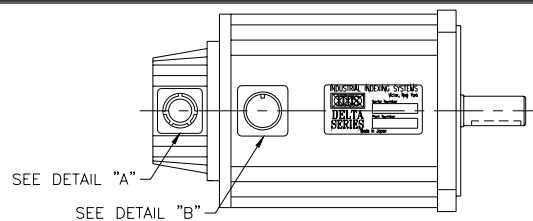


DATE	SYM	REVISION RECORD	DR	CK	CK
17JUN03	B	PER ECN 03-250	EB		

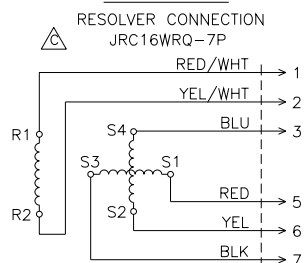
 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, DELTA SERIES, ABSOLUTE					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-800/30RA	
ANGULAR ± 0° 30'		DATE 06MAY97	SCALE NTS	SHEET NO. 1 OF 1	REVISION B

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 7.8 KG 17.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 27 LBS
- 6.) RADIAL LOAD 676 N 152 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

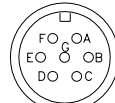
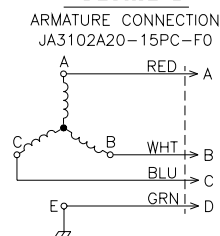


DETAIL A



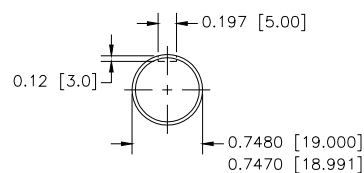
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

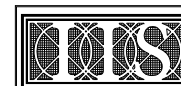


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

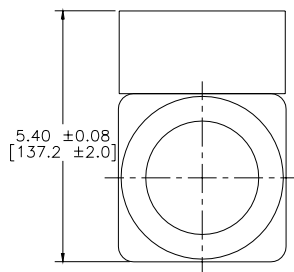
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-1000/15R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	21FEB96	1 OF 1	E
X.XXX ± 0.005			NTS		

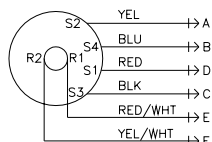
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT IS 7.3 KG 16.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 102 N 23 LBS.
- 6.) RADIAL LOAD 283 N 64 LBS.
- 7.) RESOLVER IS 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

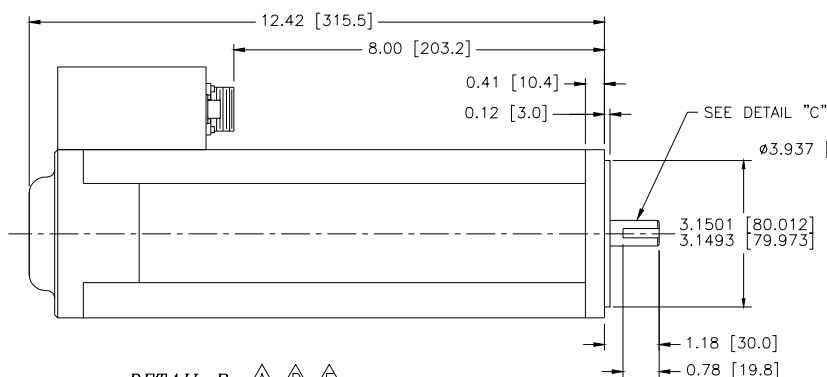
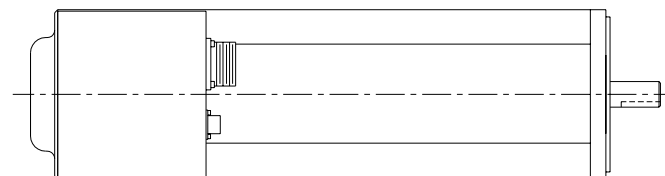
DATE	SYM	REVISION RECORD	DR	CK	CK
27JAN03	F	PER ECN 03-009	CWB		



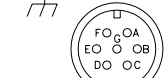
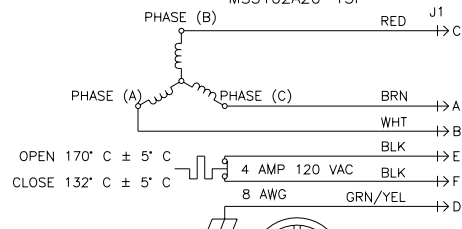
DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



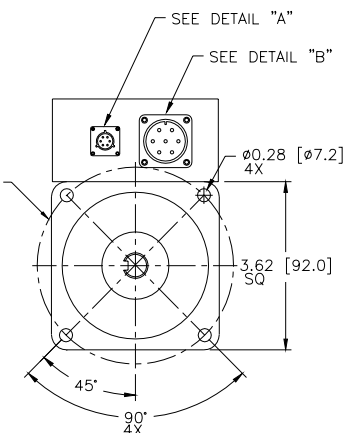
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116E10-6S



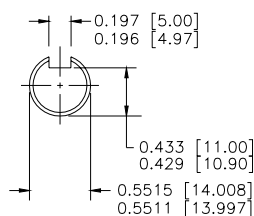
DETAIL B  
MOTOR/THERMOSTAT CONNECTION
MS3102A20-15P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C 

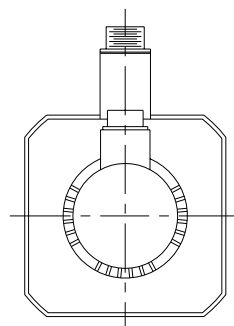
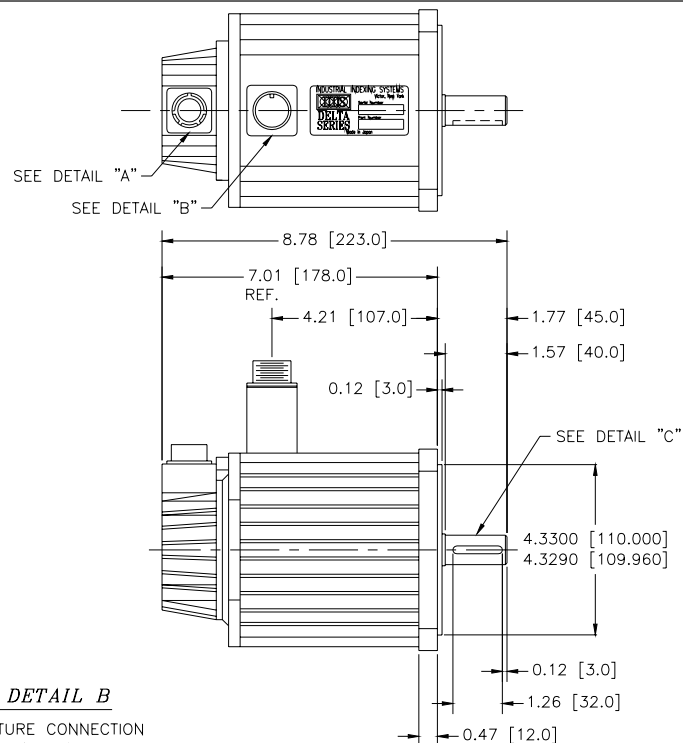


		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BAIER	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM - 1360/30R
X.X ± 0.01 X.XX ± 0.005	ANGULAR ± 0°30'	DATE 04SEP98	SCALE ---
		SHEET NO. 1 OF 1	REVISION F

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR

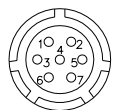
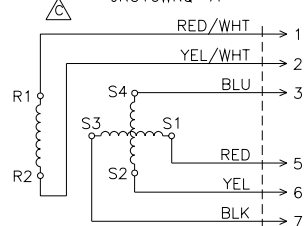
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 6.2 KG 13.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 510 N 115 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



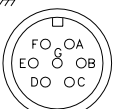
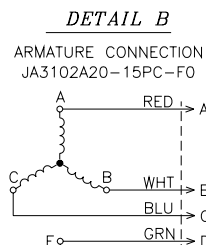
DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR

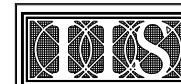
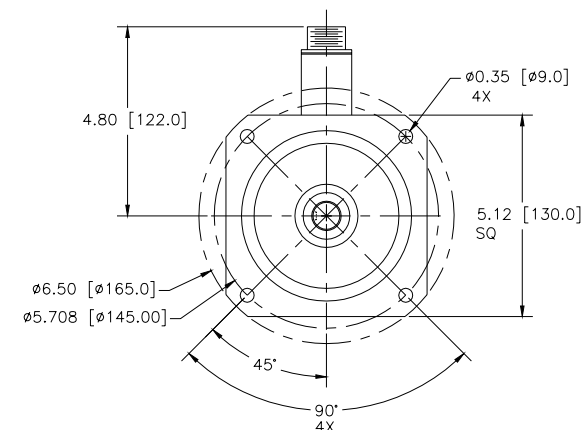
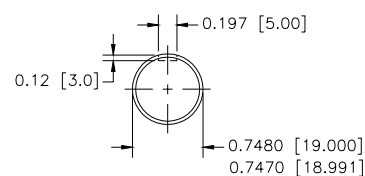
MATING SOCKET:
RESOLVER: JMSP1607F



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

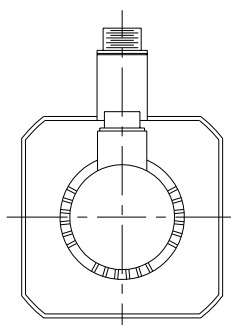
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-1400/30R	
X.X± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX± 0.01	± 0° 30'	B	NTS	1 OF 1	E
X.XXX± 0.005		21FEB96			

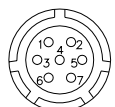
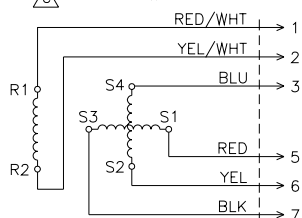
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 11 KG 24.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 26 LBS
- 6.) RADIAL LOAD 706 N 158 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

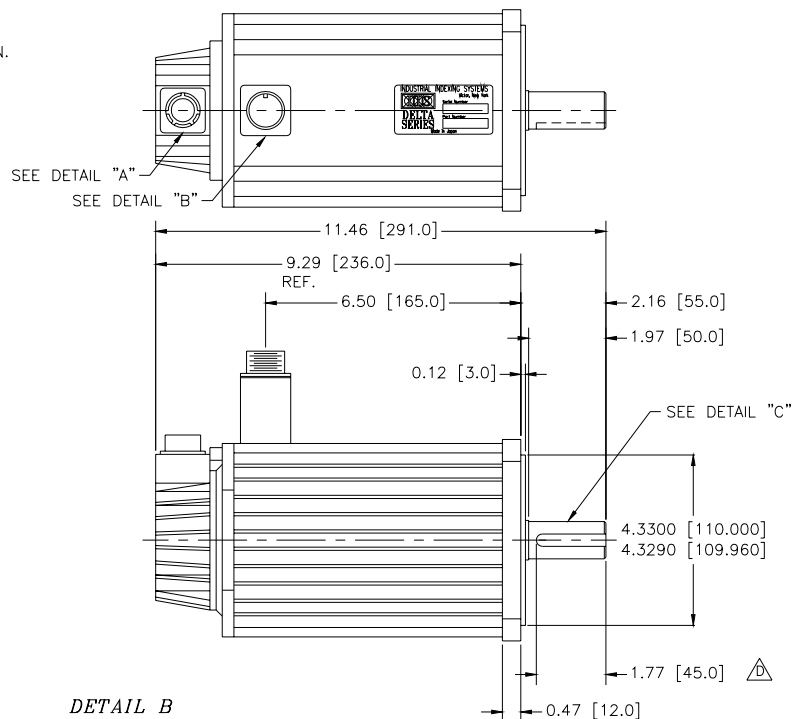


DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

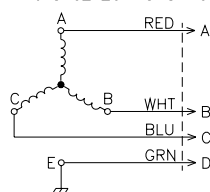


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F



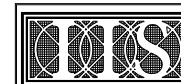
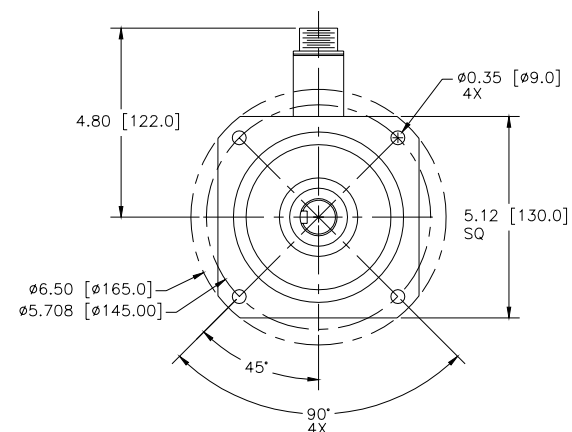
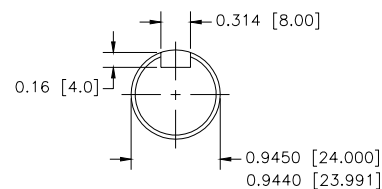
DETAIL B

ARMATURE CONNECTION
JA3102A20-15PC-F0



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

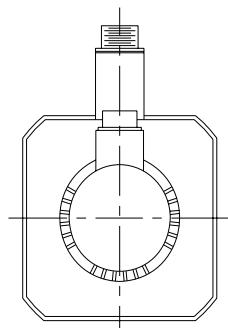
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

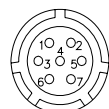
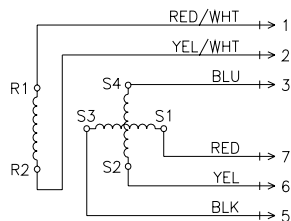
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X±---	ANGULAR	DATE	SCALE
X.XX±0.01	± 0° 30'	21FEB96	NTS
X.XXX±0.005		SHEET NO.	REVISION
		1 OF 1	F
DRAWING NUMBER		DBM-1500/15R	

NOTES: 

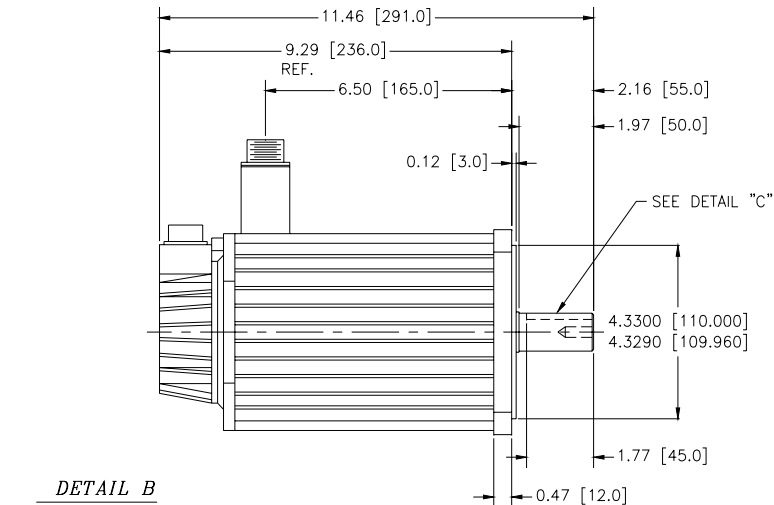
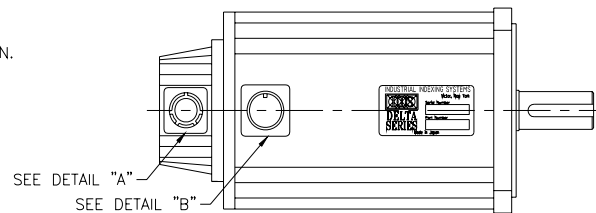
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 11 KG 24.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 26 LBS
- 6.) RADIAL LOAD 706 N 158 LBS
- 7.) RESOLVER 1X 12000 PPR
QTY 1 ZERO MARKER.
- 8.) IP-44 SEALING.



DETAIL A
RESOLVER CONNECTION
JRC16WRQ-7P

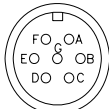
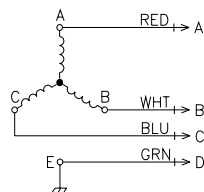


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F



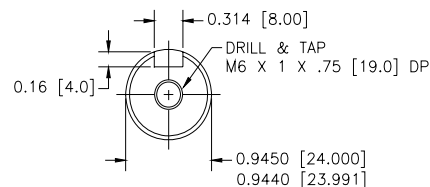
DETAIL B

ARMATURE CONNECTION
JA3102A20-15PC-F0

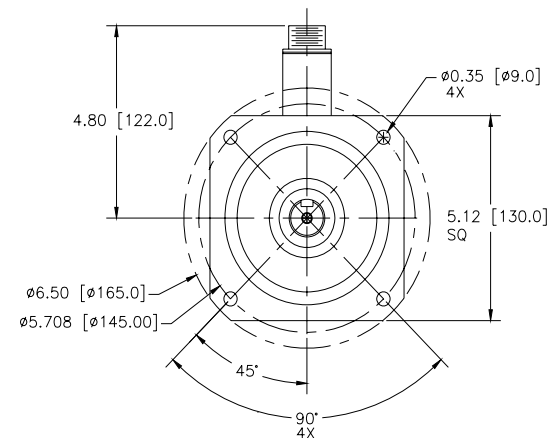


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
20JAN05	C	PER ECN 05-022	EB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

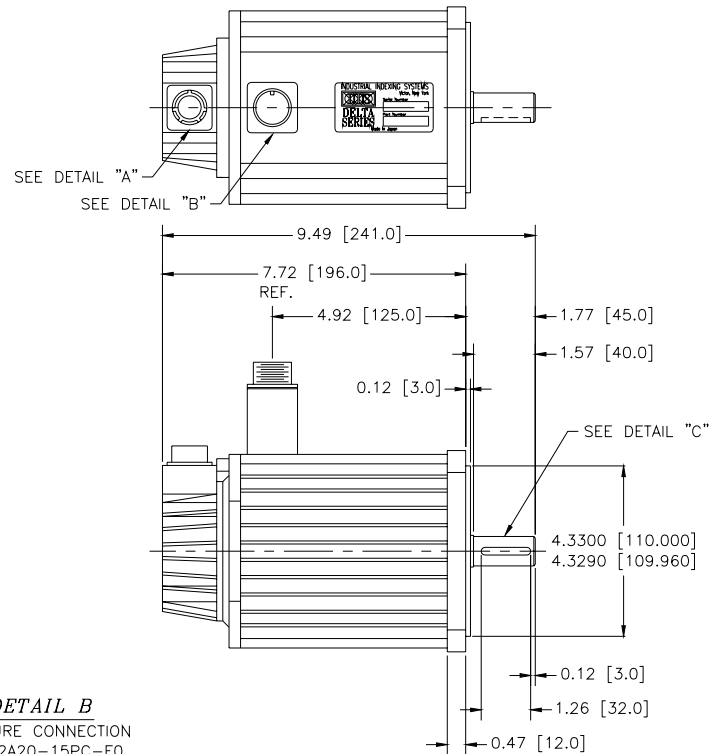
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (mm)		DRAWN BY		DRAWING NUMBER	
		BOWMAN		DBM-1500/15R1X	
TOLERANCES		Autocad FILE LOCATION			
X.X ± ---		Q: CURRENT DWGS			
X.XX ± 0.01		DATE		SHEET NO.	
X.XXX ± 0.005		16JUN99		1 OF 1	
		SCALE		REVISION	
		NTS		C	

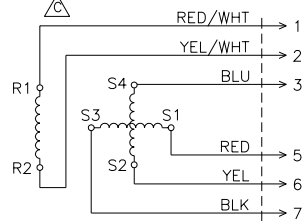
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 7.8 KG 17.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 539 N 121 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

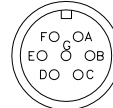
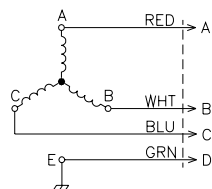
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

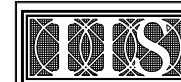
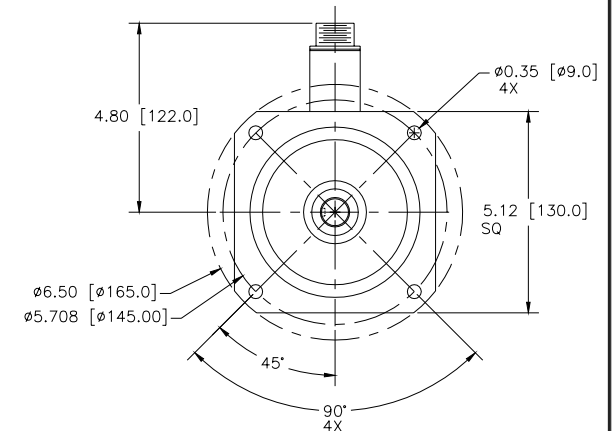
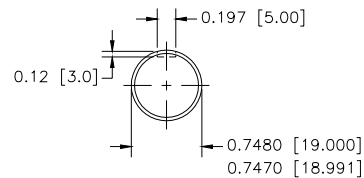
DETAIL B

ARMATURE CONNECTION
JA3102A20-15PC-F0



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

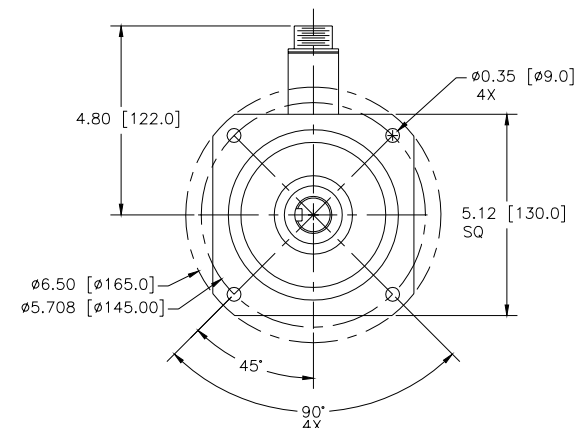
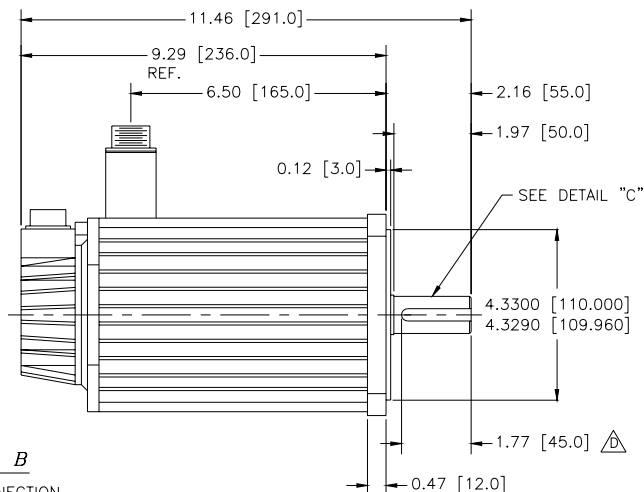
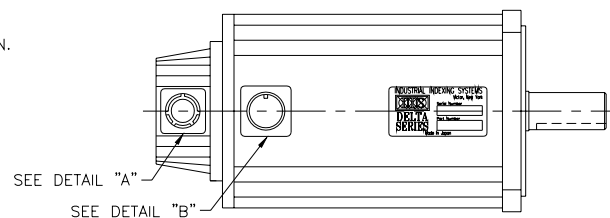
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± .005	ANGULAR	DATE 21FEB96	SCALE NTS
X.XX ± 0.01	± 0° 30'	SHEET NO. 1 OF 1	REVISION E
X.XXX ± 0.005		DRAWING NUMBER DBM-1800/30R	

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	F	PER ECN 00-246	CWB	EB	CDR

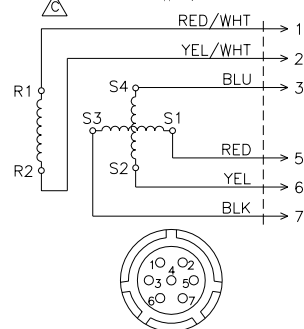
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 11 KG 24.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 559 N 125 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

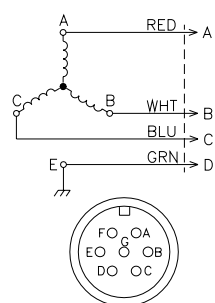


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

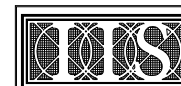
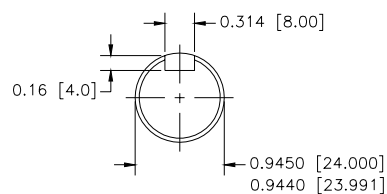
ARMATURE CONNECTION
JA3102A20-15PC-FO



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

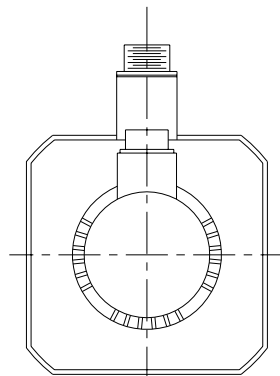
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-2400/30R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	NTS	1 OF 1	F
X.XXX ± 0.005		21FEB96			

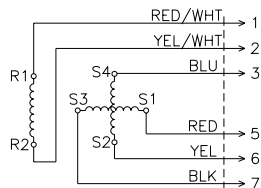
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 20.0 KG 44.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 284 N 64 LBS
- 6.) RADIAL LOAD 1350 N 303 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

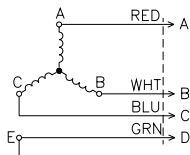
RESOLVER CONNECTION
JRC16WRQ-7P



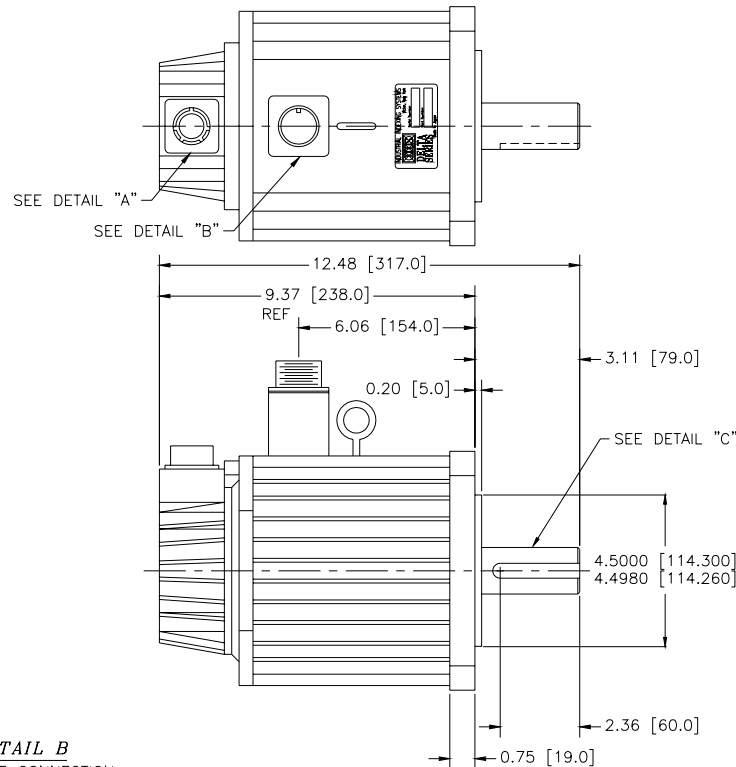
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

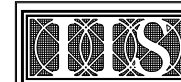
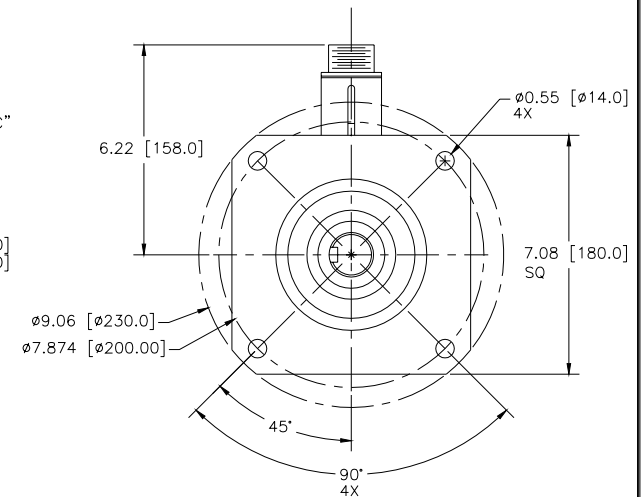
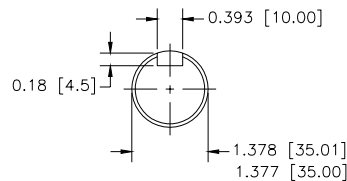
ARMATURE CONNECTION
MS3102A24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

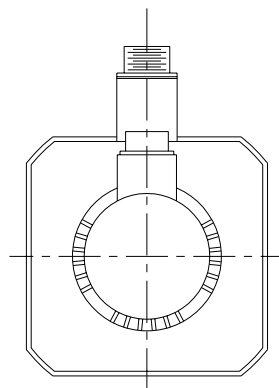
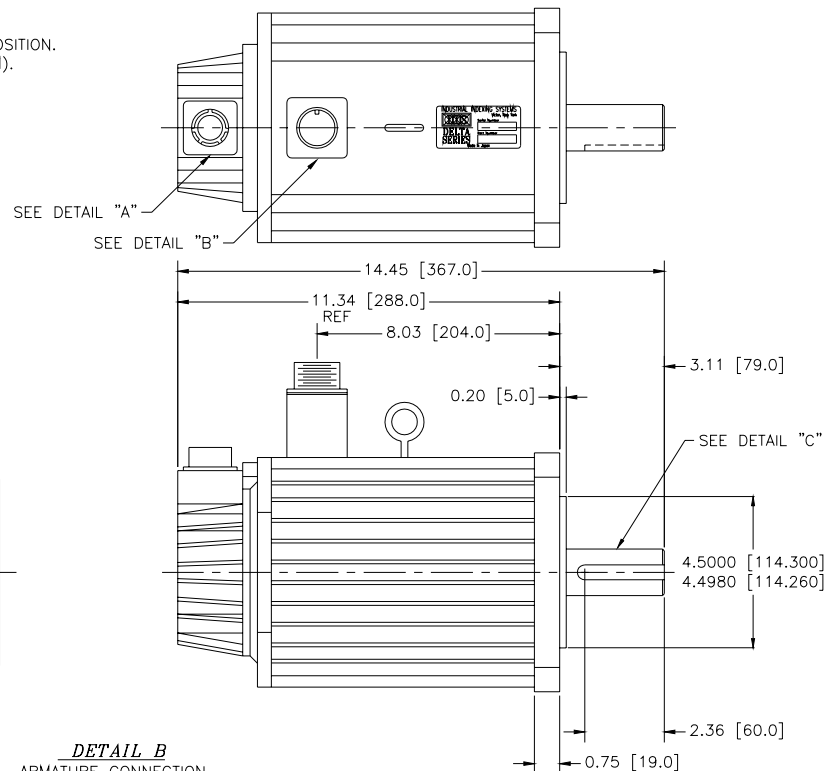
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		DRAWING NUMBER	
AutocAD FILE LOCATION		DBM-2600/15R	
X.X ± ---	Q:\CURRENT	DWGS	
X.XX ± 0.01	DATE	SCALE	SHEET NO.
X.XXX ± 0.005	± 0° 30'	NTS	1 OF 1
REVISION		D	

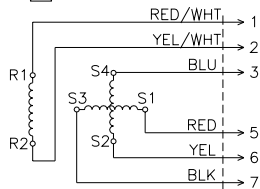
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 27.0 KG 59.5 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 284 N 64 LBS
- 6.) RADIAL LOAD 1450 N 326 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



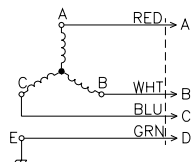
DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P



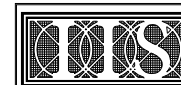
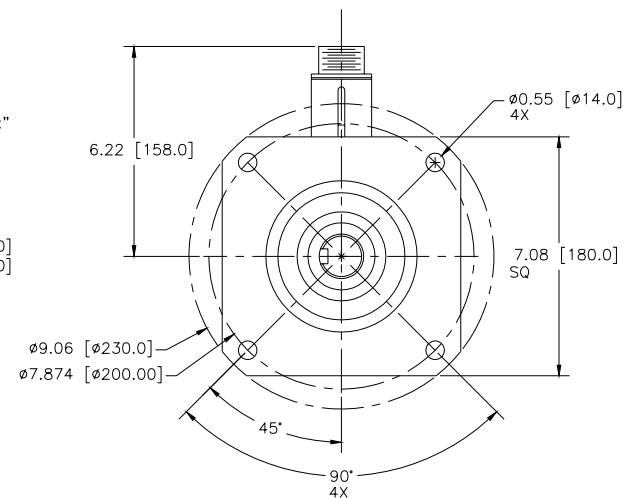
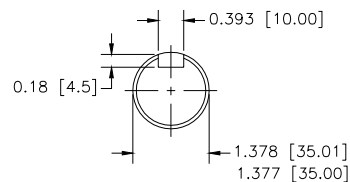
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B
ARMATURE CONNECTION
MS3102A24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

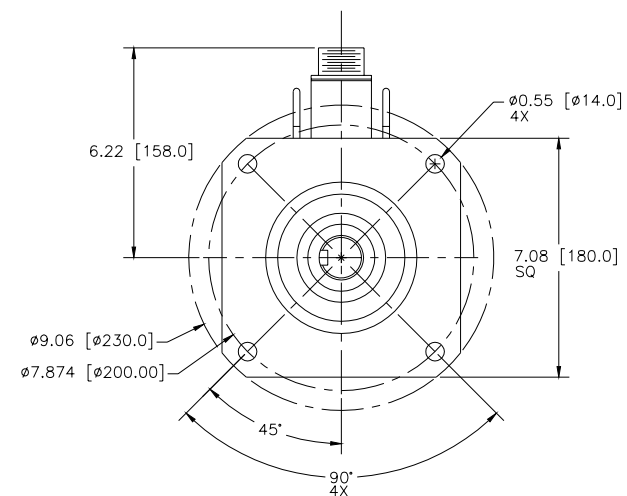
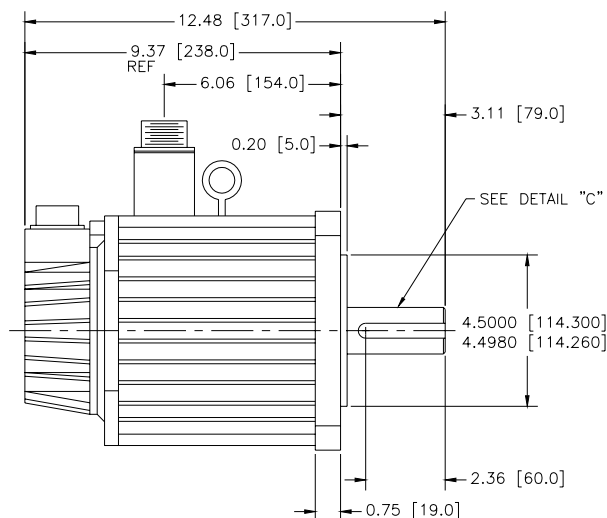
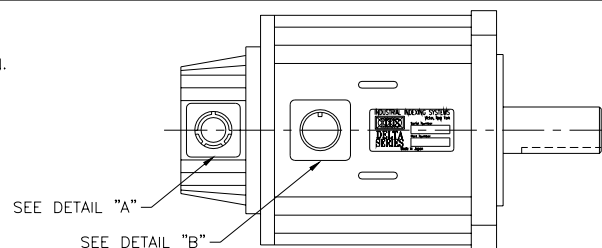
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-3700/15R
X.X ± ---	ANGULAR	DATE	SHEET NO.
X.XX ± 0.01	± 0° 30'	24APR96	1 OF 1
X.XXX ± 0.005		SCALE NTS	REVISION D

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR

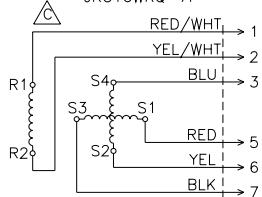
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 20 KG 44 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 52 LBS.
- 6.) RADIAL LOAD 1068 N 240 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.



DETAIL A

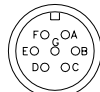
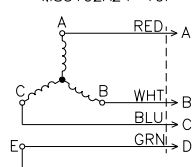
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

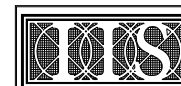
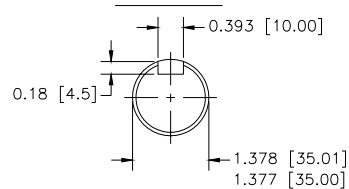
DETAIL B

ARMATURE CONNECTION
MS3102A24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

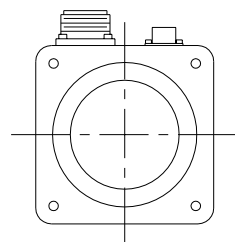
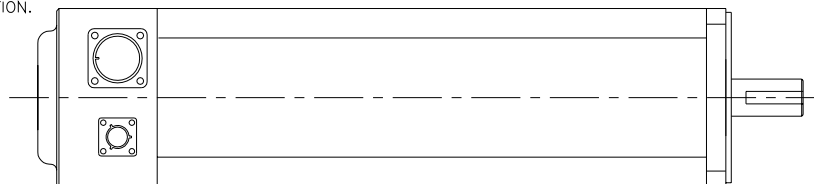
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-3700/30R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	28MAR96	1 OF 1	E
X.XXX ± 0.005			NTS		

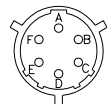
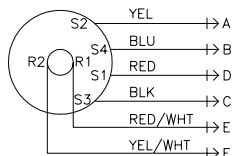
DATE	SYM	REVISION RECORD	DR	CK	CK
25OCT01	B	PER ECN 01-374	CWB		

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 20 KG 44 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 183 N 41 LBS.
- 6.) RADIAL LOAD 510 N 114 LBS.
- 7.) RESOLVER IS 1X 12000 PPR.
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.



DETAIL A
RESOLVER CONNECTION
MS3112-10-6P

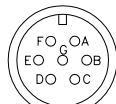
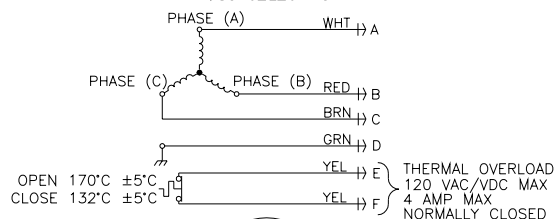


VIEW OF CONNECTOR

MATING SOCKET:

RESOLVER: MS3116F10-6S

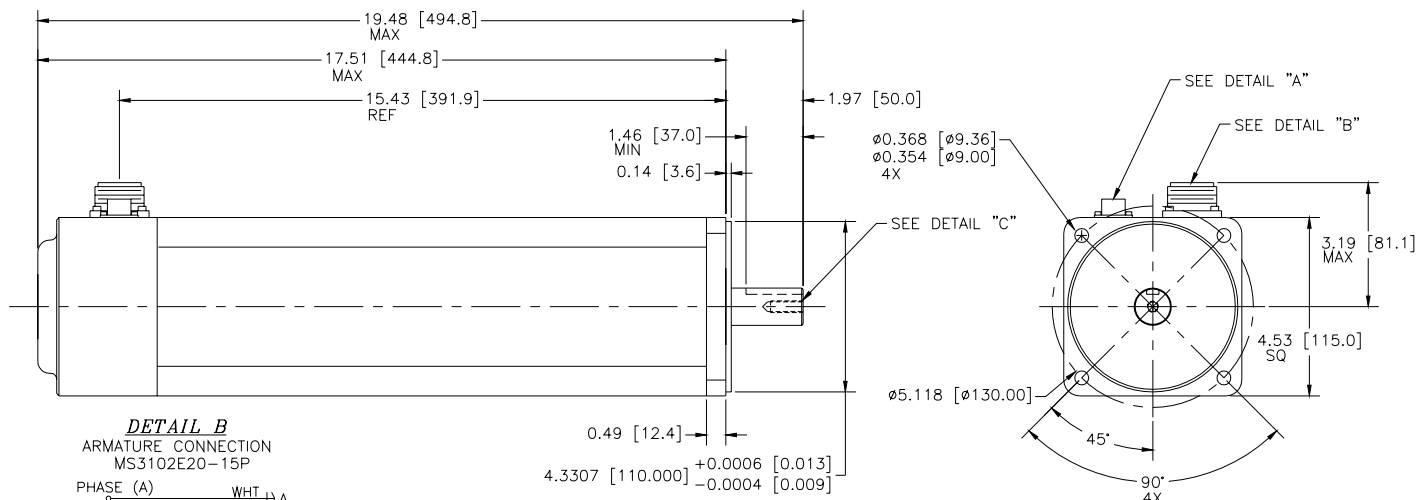
DETAIL B
ARMATURE CONNECTION
MS3102E20-15P



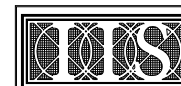
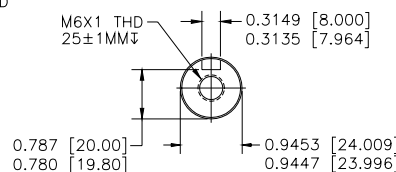
VIEW OF CONNECTOR

MATING SOCKET:

MOTOR: MS3106A24-10S



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

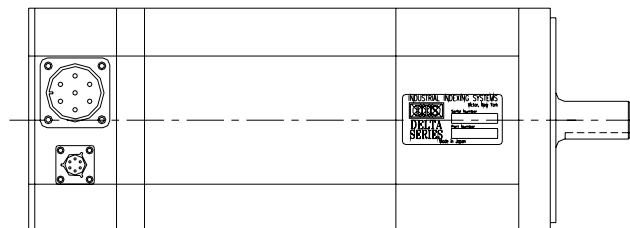
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

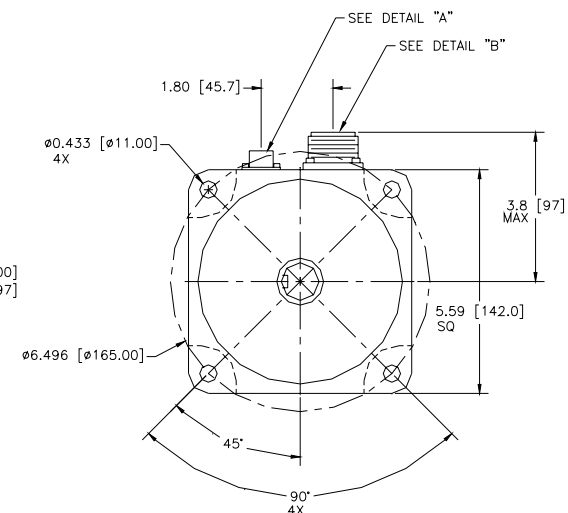
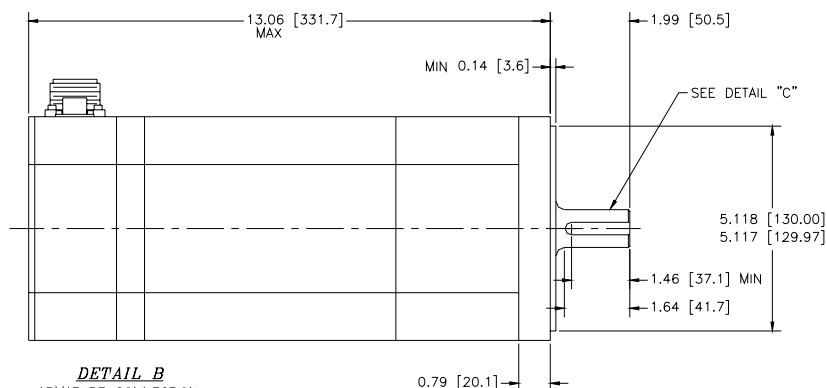
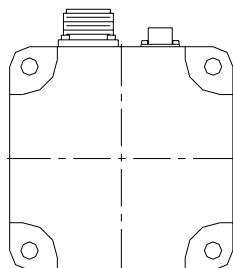
TITLE MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-3740/20R1X	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X±---	ANGULAR	DATE	SCALE	REVISION	
X.XX±0.01	± 0°30'	B	NTS	B	
X.XXX±0.005		31AUG99			

NOTES:

- 1.) ALL DIMENSIONS ARE IN INCHES [MM].
- 2.) AXIAL LOAD: 23 KG 50 LBS MAX.
- 3.) RADIAL LOAD: 68 KG 150 LBS MAX
@ 1.00 [25.4 MM] FROM FACE.
- 4.) MOTOR SEALED TO IP65.
- 5.) MOTOR SHAFT: 416 STAINLESS STEEL.
- 6.) MOTOR FINISH: BLACK MATT FINISH.
- 7.) MOTOR WEIGHT: 22.7 KG 50 LBS.

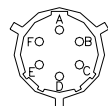
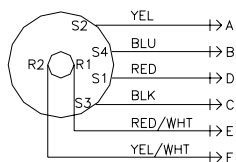


DATE	SYM	REVISION RECORD	DR	CK	CK
14SEP04	0	PER ECN 04-361	CWB		



DETAIL A

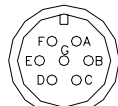
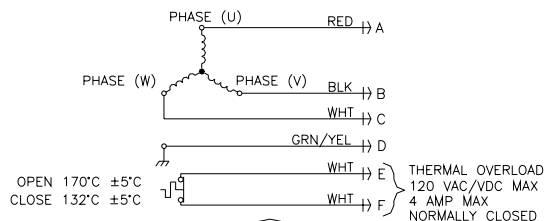
RESOLVER CONNECTION
MS3112E10-6P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B

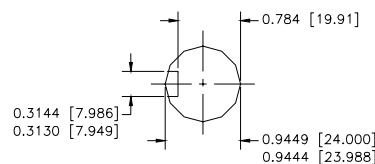
ARMATURE CONNECTION
MS3102E24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106E24-10S

DETAIL C

MOTOR SHAFT DETAIL



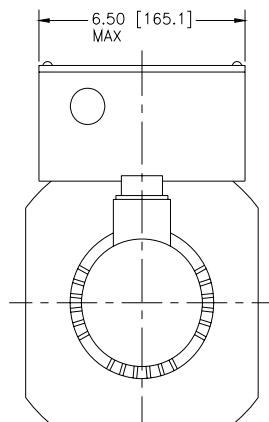
	INDUSTRIAL INDEXING SYSTEMS, Inc.		
www.iis-servo.com			
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION	
X.X ±	---	Q: CURRENT	DWGS
X.XX ± 0.01	ANGULAR	DATE	SCALE
X.XXX ± 0.005	± 0°30'	B 14SEP04	---
		DRAWING NUMBER DBM-4200/20R	
		SHEET NO. 1 OF 1	
		REVISION 0	

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 34 KG 75 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 284 N 64 LBS.
- 6.) RADIAL LOAD 1520 N 342 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

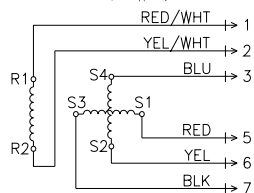
SEE DETAIL "A"

SEE DETAIL "B"



DETAIL A

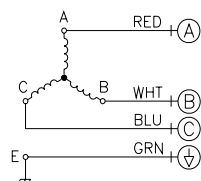
 RESOLVER CONNECTION
JRC16WRQ-7P



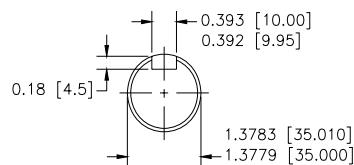
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

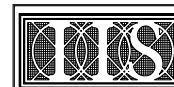
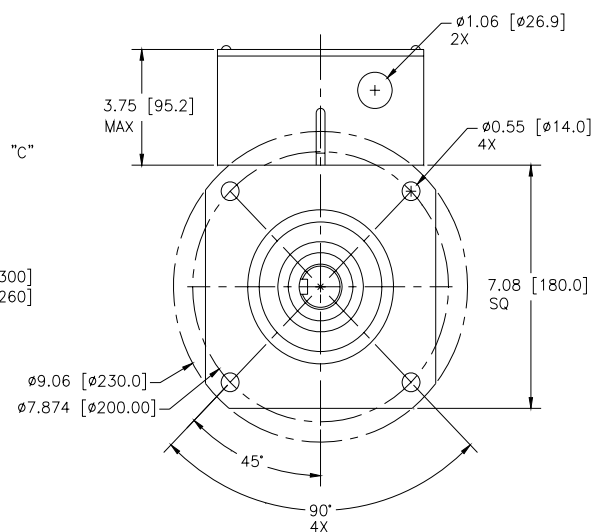
ARMATURE CONNECTION



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
17JUN04	E	PER ECN 04-255	CWB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

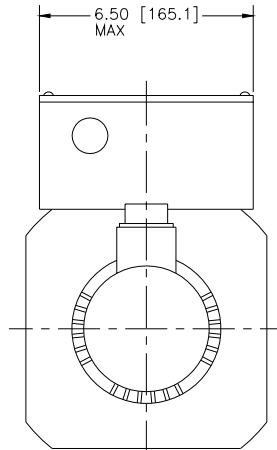
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		Autocad FILE LOCATION		DBM-5000/15R	
X.X ± ---	ANGULAR	Q:\CURRENT	DWGS		
X.XX ± 0.01	± 0°30'	DATE	SCALE	SHEET NO.	REVISION
X.XXX ± 0.005		B 28JUN96	NTS	1 OF 1	E

NOTES: 

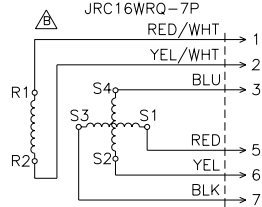
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 27.0 KG 59.5 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 53 LBS
- 6.) RADIAL LOAD 1147 N 258 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

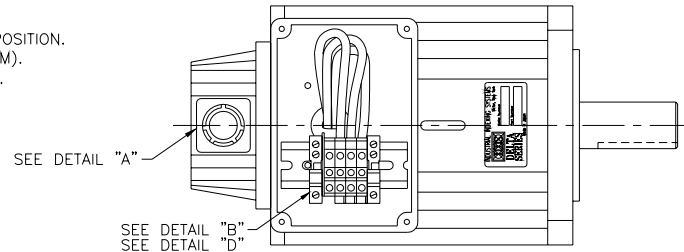


DETAIL A

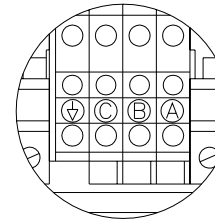
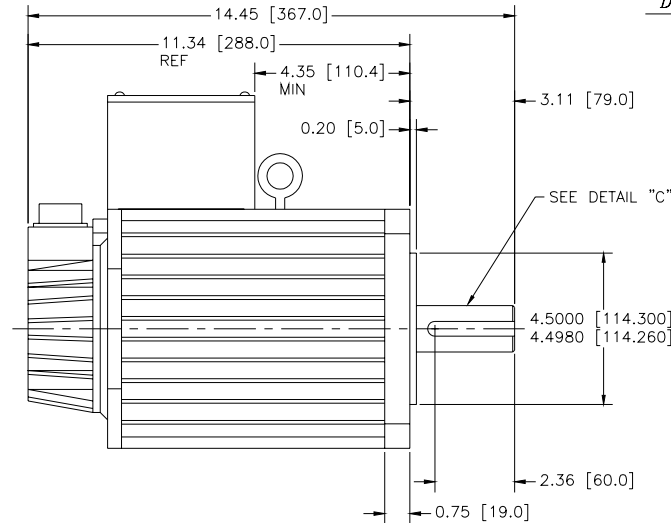
RESOLVER CONNECTION
JRC16WRQ-7P



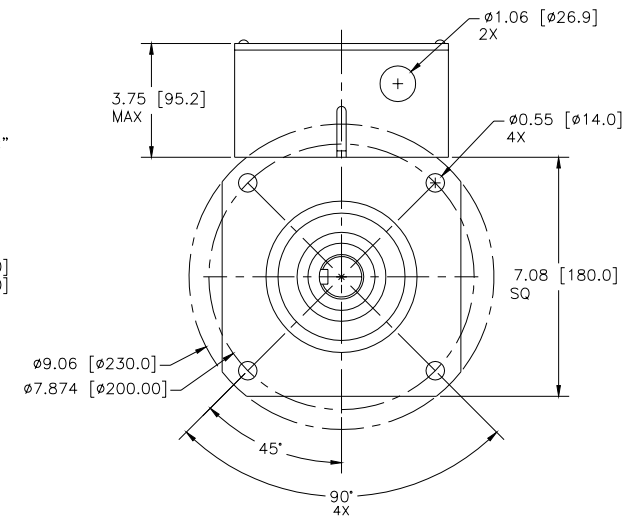
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F



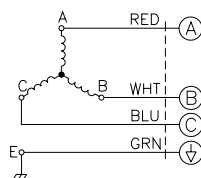
SEE DETAIL "B"
SEE DETAIL "D"



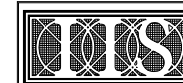
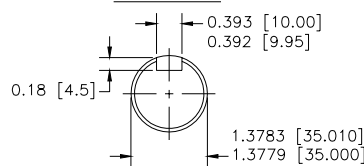
DETAIL D



DETAIL B
ARMATURE CONNECTION



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

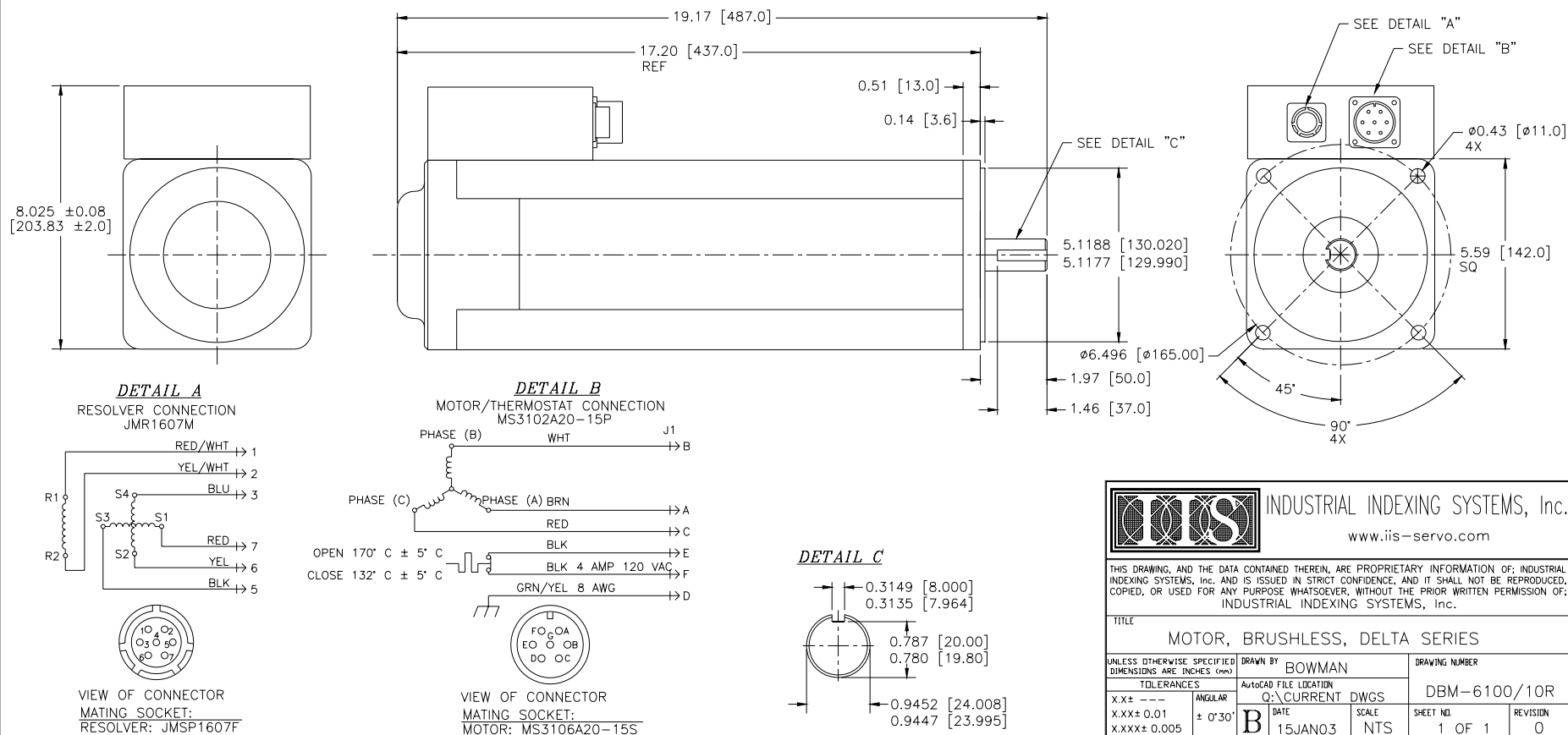
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-5500/30R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	28JUN96	1 OF 1	D
X.XXX ± 0.005			NTS		

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT IS 29.9 KG 66 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 332 N 75 LBS.
- 6.) RADIAL LOAD 887 N 200 LBS.
- 7.) RESOLVER IS 3X 36000 PPR.
QTY 3 ZERO MARKERS.
- 8.) IP-65 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
15JAN03	0	PER ECN 03-025	CWB		



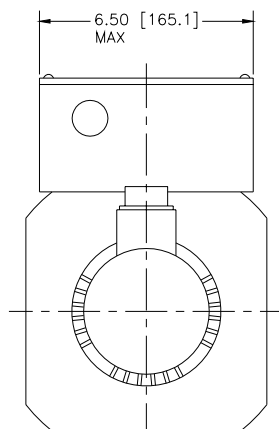
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 34 KG 75 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 52 LBS
- 6.) RADIAL LOAD 1205 N 270 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

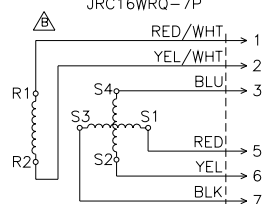
SEE DETAIL "A"

SEE DETAIL "B"
SEE DETAIL "D"

DETAIL D

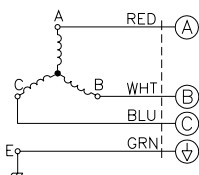


DETAIL A
RESOLVER CONNECTION
JRC16WRQ-7P

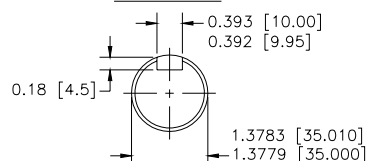


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

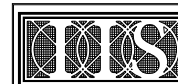
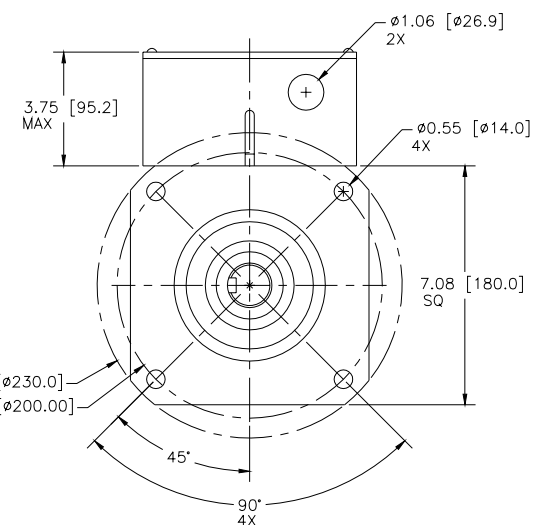
DETAIL B
ARMATURE CONNECTION



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

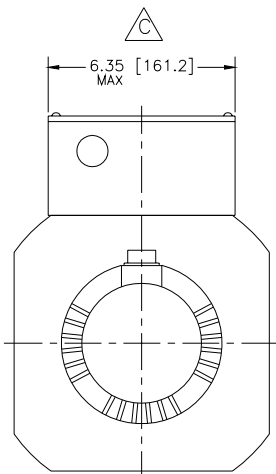
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

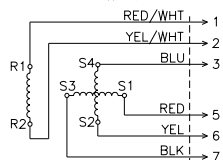
TITLE MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-6500/30R	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DATE 28JUN96	
X.X ± ---	ANGULAR ± 0°30'	SCALE NTS		SHEET NO. 1 OF 1	REVISION D

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

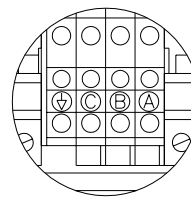
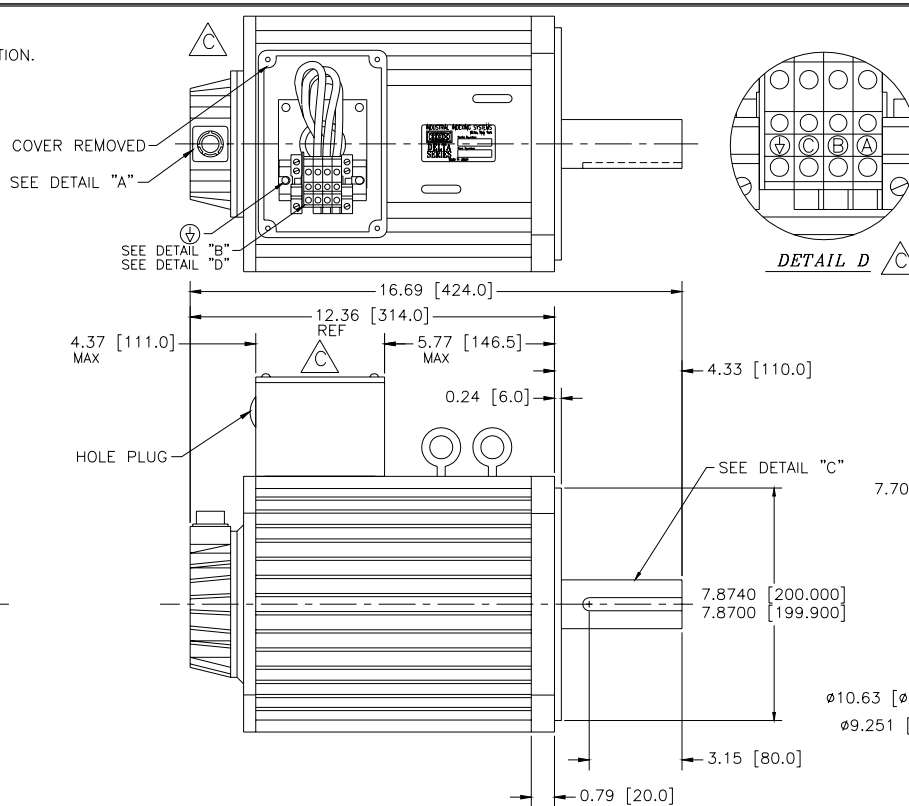
- NOTES: 
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
 - 2.) ALL DIMENSIONS ARE IN INCHES (MM).
 - 3.) MOTOR WEIGHT 44 KG 97 LBS.
 - 4.) MOTOR SHAFT SEAL IS STANDARD.
 - 5.) THRUST LOAD 294 N 66 LBS
 - 6.) RADIAL LOAD 1372 N 308 LBS
 - 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
 - 8.) IP-44 SEALING.



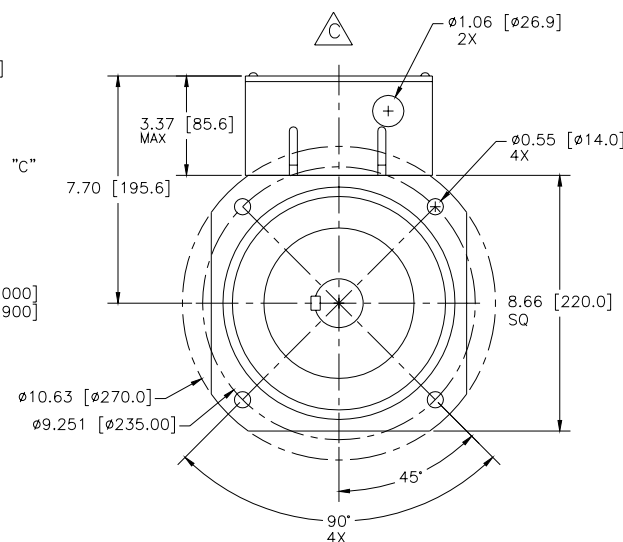
DETAIL A
RESOLVER CONNECTION
JRC16WRQ-7P



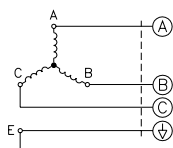
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F



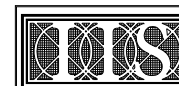
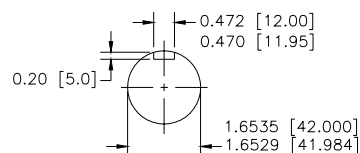
DETAIL D 



DETAIL B
ARMATURE CONNECTION



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

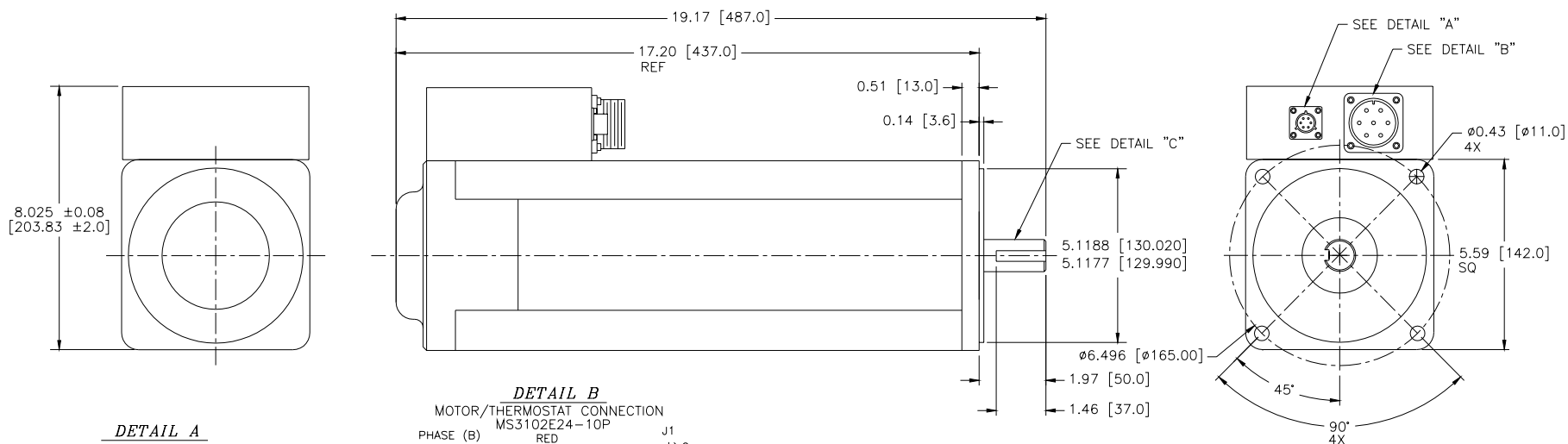
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

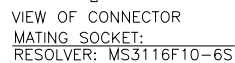
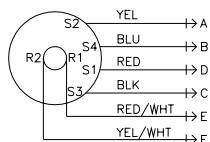
TITLE MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-7500/20R	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± ---	ANGULAR	DATE 01JUL97	SCALE NTS	REVISION D	
X.XX ± 0.01	± 0° 30'				
X.XXX ± 0.005					

- NOTES: A
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
 - 2.) ALL DIMENSIONS ARE IN INCHES [MM].
 - 3.) MOTOR WEIGHT IS 29.9 KG 66 LBS.
 - 4.) MOTOR SHAFT SEAL IS STANDARD.
 - 5.) THRUST LOAD 332 N 75 LBS.
 - 6.) RADIAL LOAD 887 N 200 LBS.
 - 7.) RESOLVER IS 3X 36000 PPR.
QTY 3 ZERO MARKERS.
 - 8.) IP-65 SEALING.

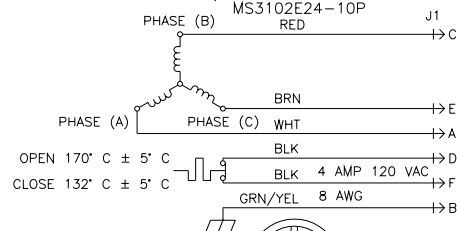
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR



RESOLVER CONNECTION
MS3112E10-6P



MOTOR/THERMOSTAT CONNECTION
MS3102E24-10P



www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE	MOTOR, BRUSHLESS, DELTA SERIES
-------	--------------------------------

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-8600/22R	
X.X± ---	ANGULAR	DATE 05/19/98	SCALE NTS	SHEET NO. 1 OF 1	REVISION C
X.XX± 0.01	± 0°30'				
X.XXX± 0.005					

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR

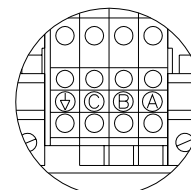
NOTES: **A**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 62 KG 137 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 294 N 66 LBS
- 6.) RADIAL LOAD 1470 N 330 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.

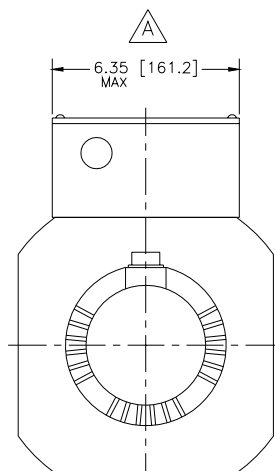
COVER REMOVED

SEE DETAIL "A"

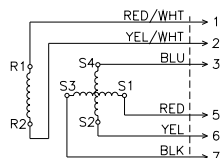
SEE DETAIL "B"
SEE DETAIL "D"



DETAIL D

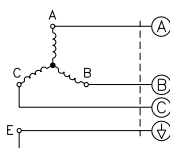


DETAIL A
RESOLVER CONNECTION
JRC16WRQ-7P

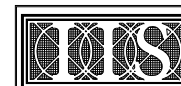
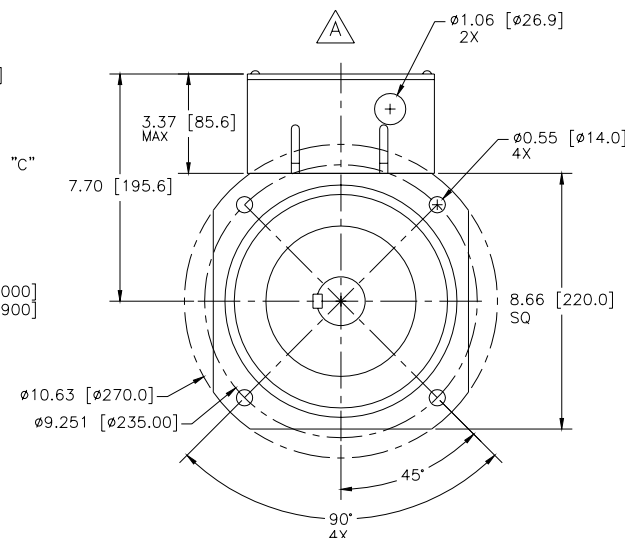
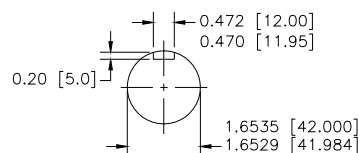


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B
ARMATURE CONNECTION



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

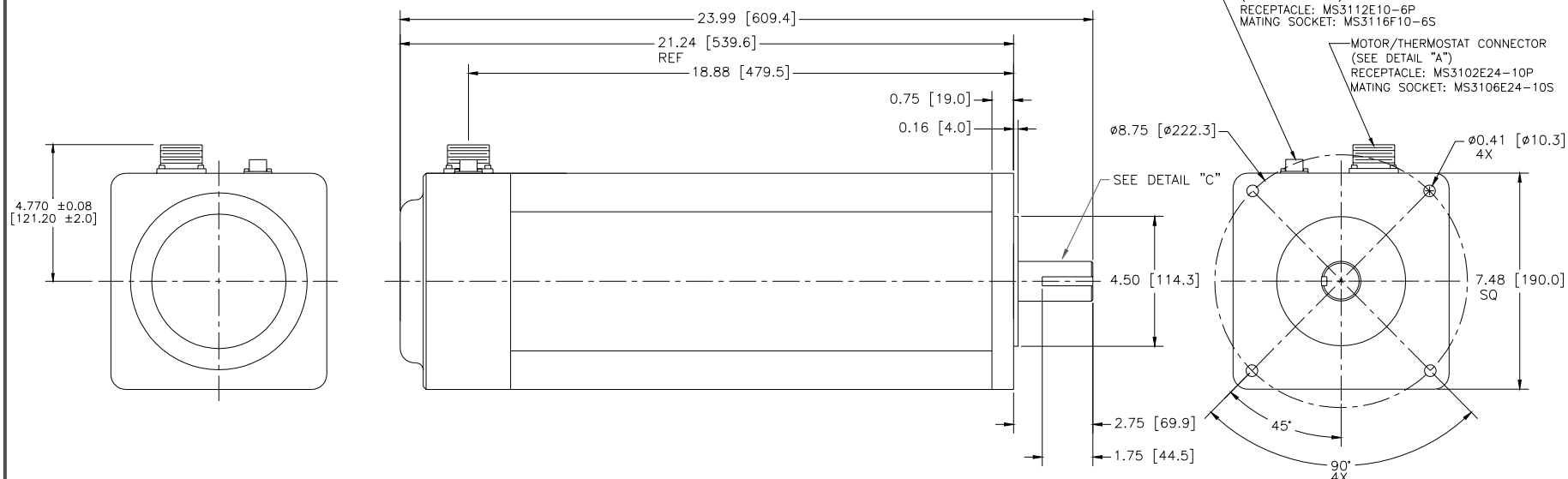
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DBM-10000/20R	
X.X ± ---	ANGULAR	Q:\CURRENT DWGS		SHEET NO.	
X.XX ± 0.01	± 0° 30'	DATE		1 OF 1	
X.XXX ± 0.005		18AUG98		REVISION	
		SCALE		B	
		NTS			

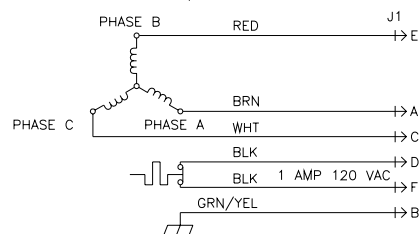
DATE	SYM	REVISION RECORD	DR	CK	CK
07DEC99	A	PER ECN 99-014	CWB	ELS	CDR

- NOTES: 
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
 - 2.) ALL DIMENSIONS ARE IN INCHES [MM].
 - 3.) MOTOR WEIGHT IS 62.6 KG 138 LBS.
 - 4.) MOTOR SHAFT SEAL IS STANDARD.
 - 5.) THRUST LOAD 500 N 112 LBS.
 - 6.) RADIAL LOAD 1330 N 300 LBS.
 - 7.) RESOLVER IS 3X 36000 PPR.
QTY 3 ZERO MARKERS.
 - 8.) IP-65 SEALING.



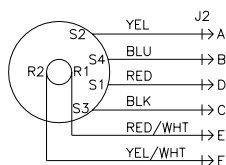
DETAIL A

MOTOR/THERMOSTAT CONNECTION



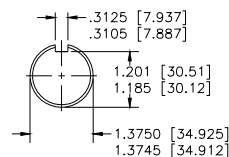
DETAIL B

RESOLVER CONNECTION



DETAIL C

MOTOR SHAFT DIMENSIONS





INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

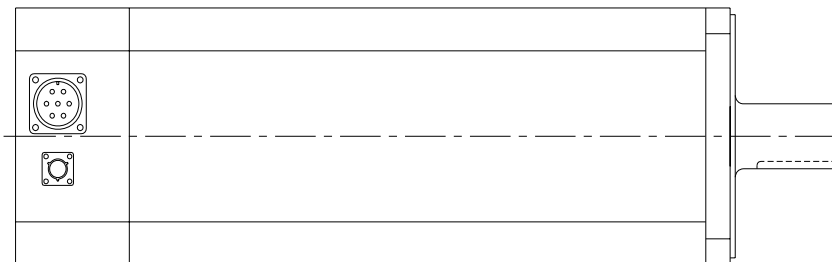
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE: **MOTOR, BRUSHLESS, DELTA SERIES**

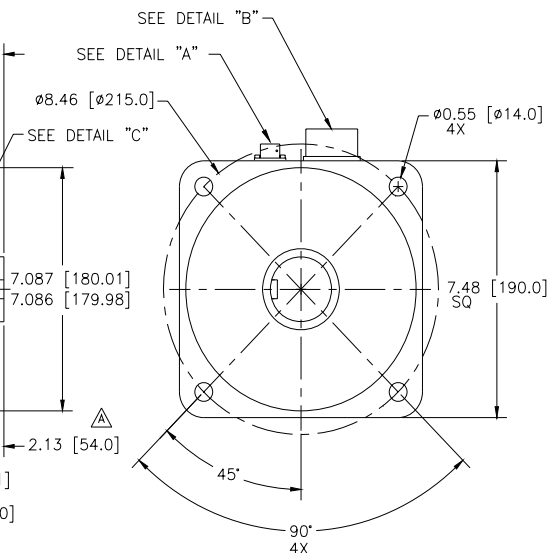
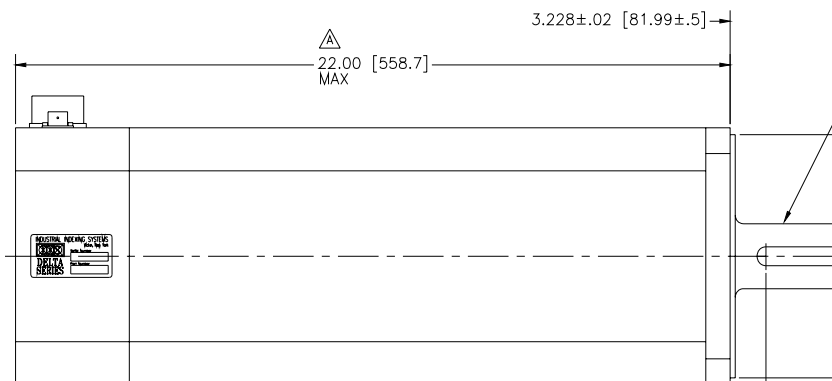
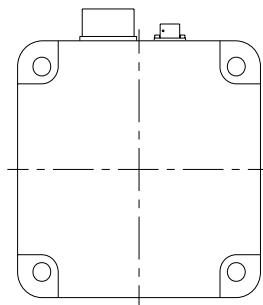
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY: BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION: Q:\CURRENT DWGS		DBM-10300/15R	
X.X ± .005	ANGULAR ± 0° 30'	DATE: 25OCT98	SCALE: NTS	SHEET NO.: 1 OF 1	REVISION: A

NOTES:

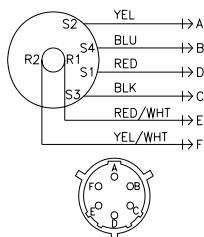
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 76 KG 168 LBS
- 4.) SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 435 N 97 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 3X 36000 PPR.
QTY 3 ZERO MARKERS.
- 8.) IP-65 SEALING.



DATE	SYM	REVISION RECORD	DR	CK	CK
04JUN04	A	PER ECN 04-225	CWB		

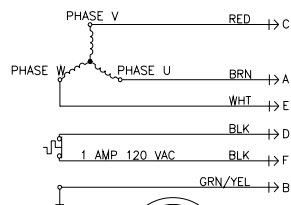


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



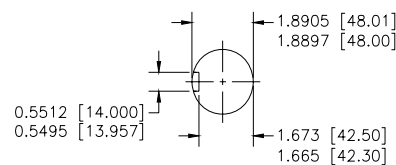
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
MOTOR/THERMOSTAT CONNECTION
MS3102E24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S

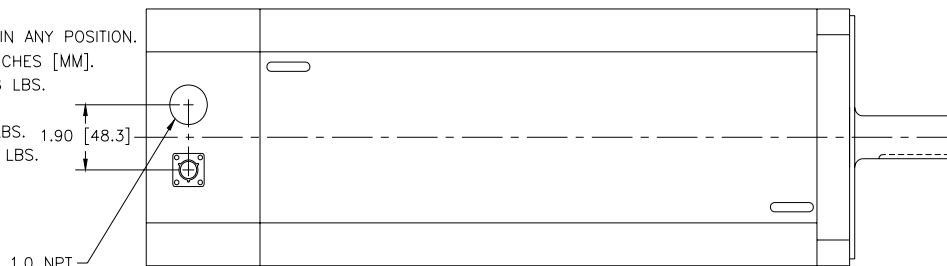
DETAIL C
MOTOR SHAFT DIMENSIONS



		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-13500/15R	
TOLERANCES	Autocad FILE LOCATION Q:\CURRENT	DWGS	
X.X± ---	ANGULAR	DATE 23JUL01	SCALE NTS
X.XX± 0.01	± 0°30'	SHEET NO. 1 OF 1	REVISION A
X.XXX± 0.005			

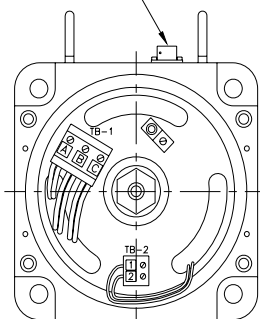
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 76 KG 168 LBS.
- 4.) SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 435 N 97 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 3X 36000 PPR.
QTY 3 ZERO MARKERS.
- 8.) IP-65 SEALING.



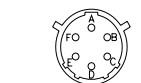
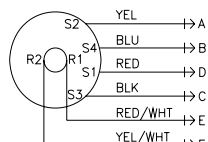
DATE	SYM	REVISION RECORD	DR	CK	CK
15JUN05	C	PER ECN 05-131	CWB		

SEE DETAIL "A"



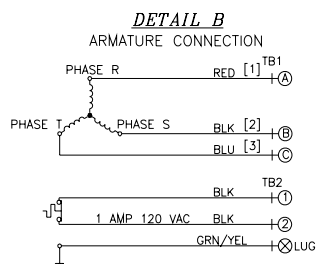
(END COVER REMOVED)
(SEE DETAIL "B")

DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



VIEW OF CONNECTOR

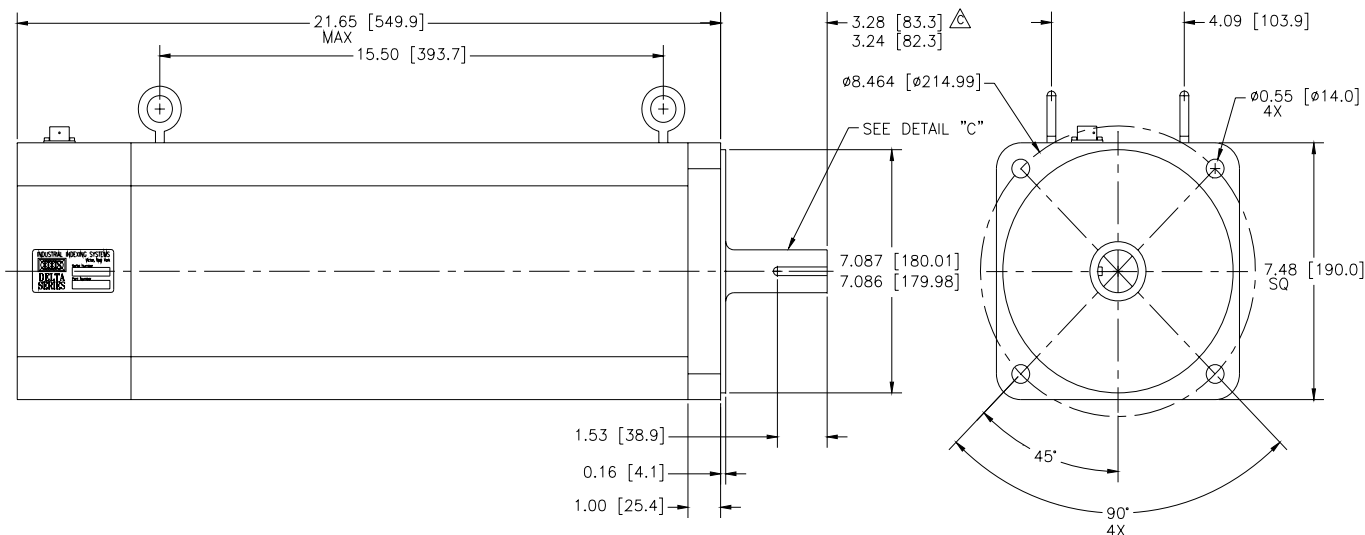
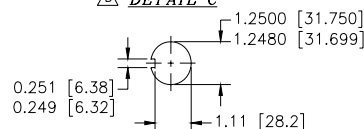
MATING SOCKET:
RESOLVER: MS3116F10-6S



DETAIL B

ARMATURE CONNECTION

DETAIL C

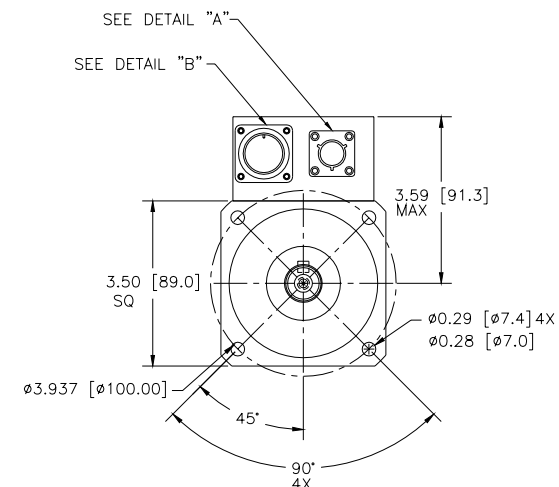
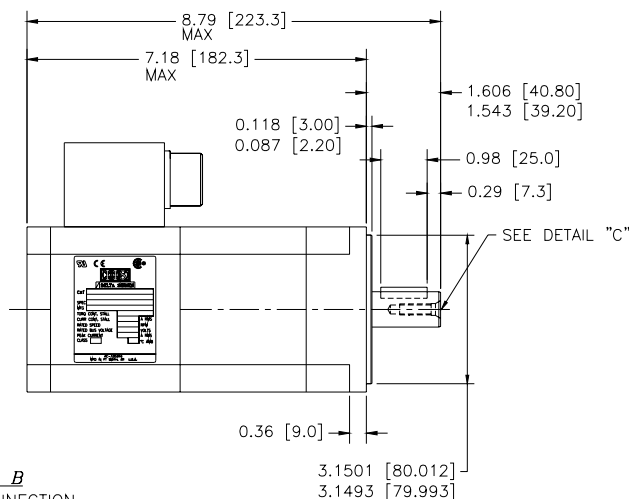
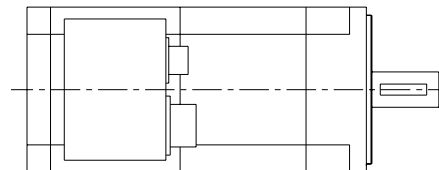


	INDUSTRIAL INDEXING SYSTEMS, Inc.		
www.iis-servo.com			
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION	
X.Xt ---	ANGULAR	Q: CURRENT DWGS	DBM-14300/13R
X.XX± 0.01	± 0°30'	DATE	SHEET NO.
X.XXX± 0.005		16DEC99	1 OF 1
		SCALE	REVISION
		NTS	C

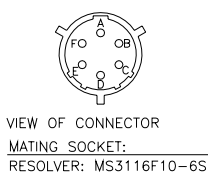
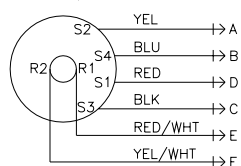
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

NOTES: **B**

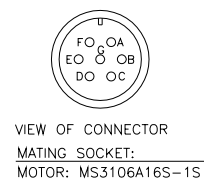
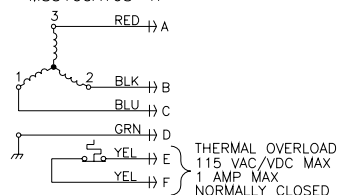
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 4.1 KG 9 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.



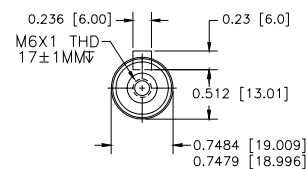
DETAIL A **A**
RESOLVER CONNECTION
MS3112E10-6P



DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



DETAIL C
MOTOR SHAFT DIMENSIONS

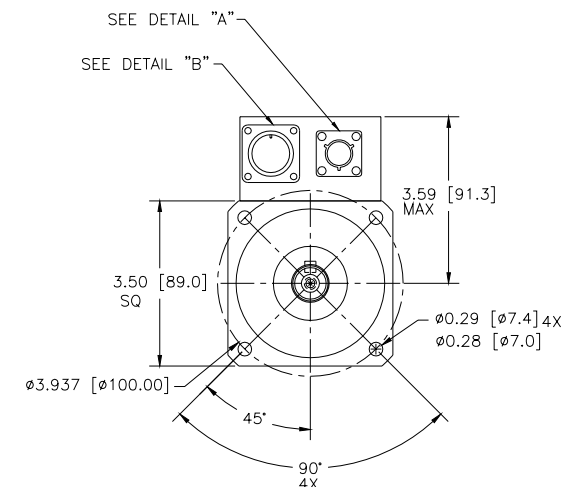
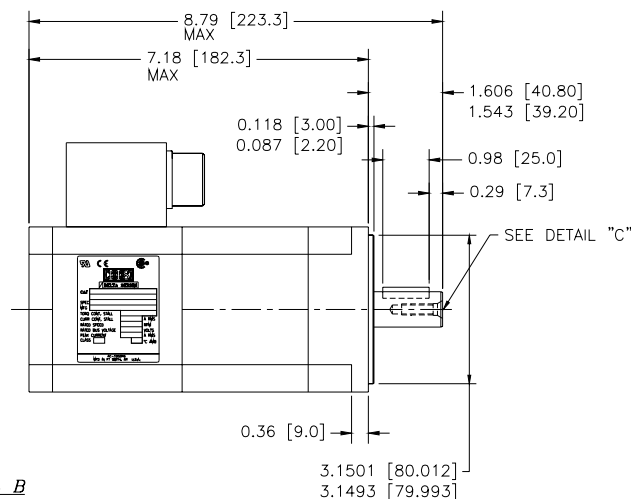
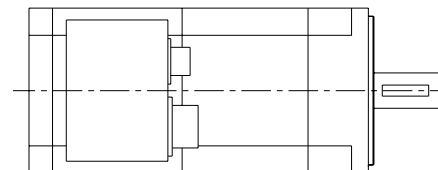


		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-B380/30R	
X.X±---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX±0.01	± 0° 30'	B 11JUN99	NTS	1 OF 1	C
X.XXX±0.005					

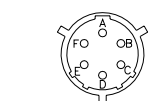
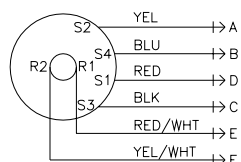
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

NOTES: **B**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 4.1 KG 9 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) RESOLVER 1X 12000 PPR.
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

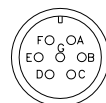
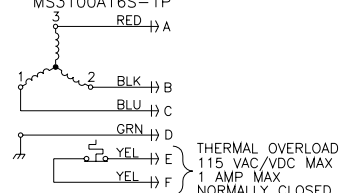


DETAIL A **A**
RESOLVER CONNECTION
MS3112E10-6P



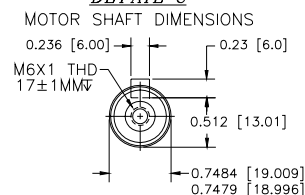
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C

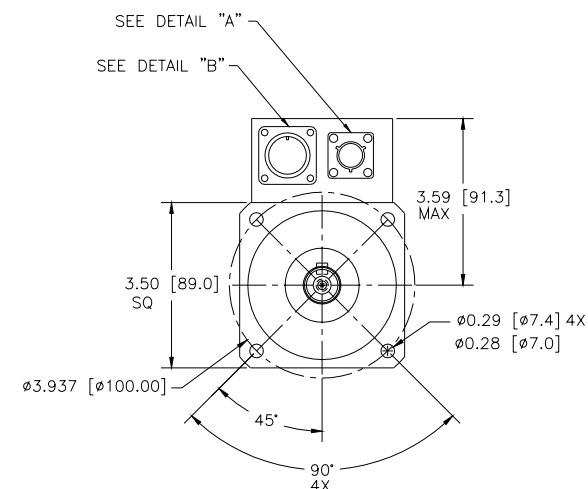
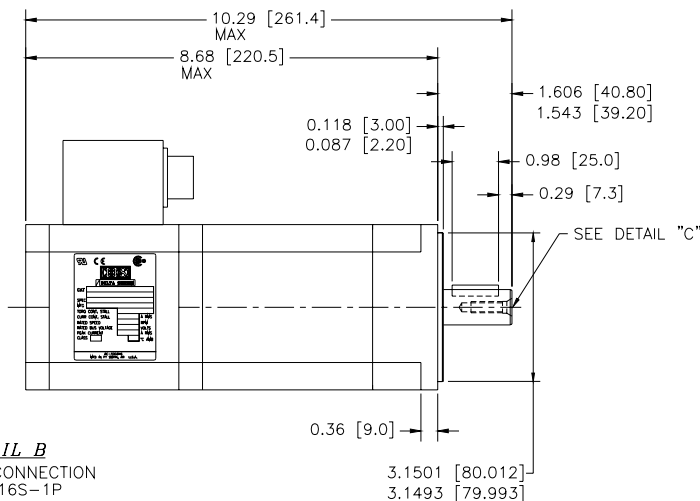
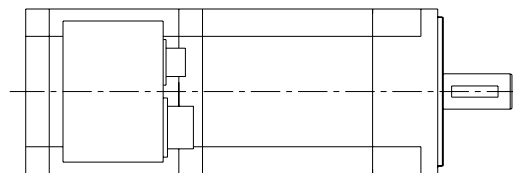


		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-B380/30R1X	
X.X±---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX±0.01	± 0°30'	B 11JUN99	NTS	1 OF 1	C
X.XXX±0.005					

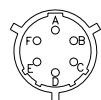
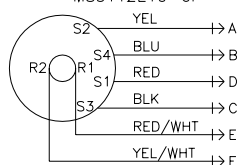
DATE	SYM	REVISION RECORD	DR	CK	CK
08AUG00	C	PER ECN 00-246	CWB	EB	CDR

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 6.4 KG 14 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

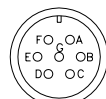
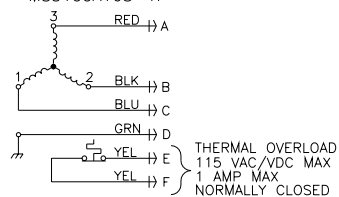


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



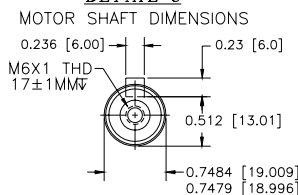
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C

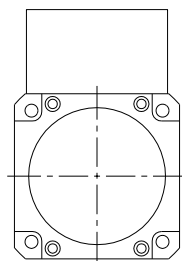
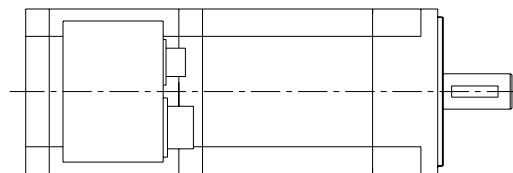


 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.	
		TITLE MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-B630/30R	
TOLERANCES X.X± --- X.XX± 0.01 X.XXX± 0.005	AutoCAD FILE LOCATION Q:\CURRENT DWGS DATE 08JAN99	SCALE NTS	SHEET NO. 1 OF 1
ANGULAR ± 0° 30'	B	REVISION C	

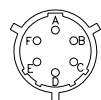
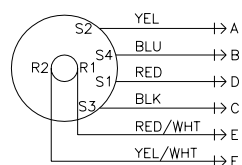
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

NOTES: **B**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 6.4 KG 14 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) RESOLVER 1X 12000 PPR.
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

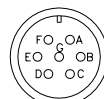
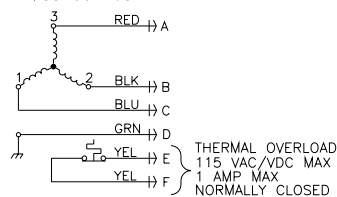


DETAIL A **A**
RESOLVER CONNECTION
MS3112E10-6P

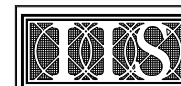
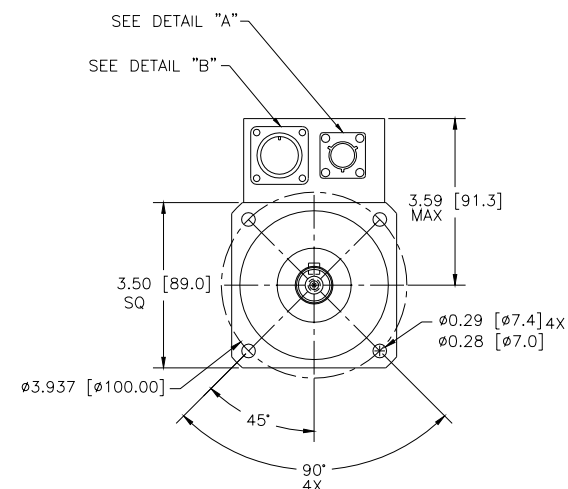
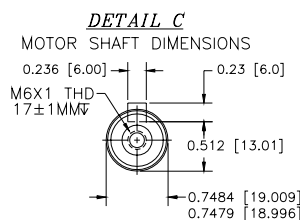
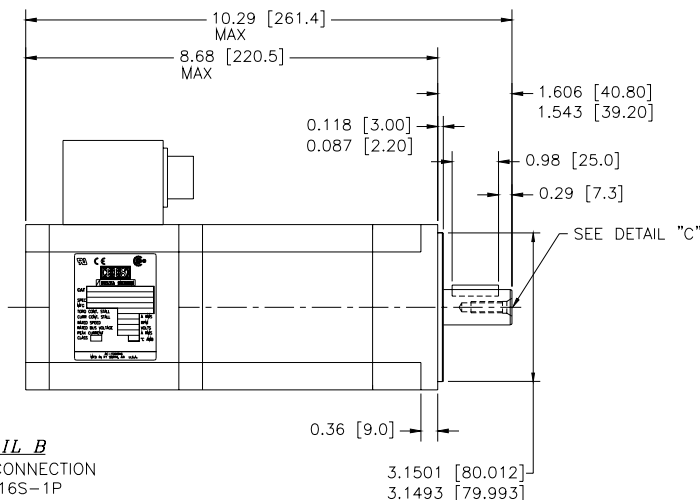


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

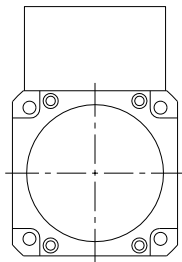
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0° 30'	08JAN99	NTS
X.XXX ± 0.005		SHEET NO.	REVISION
		1 OF 1	C

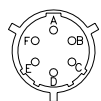
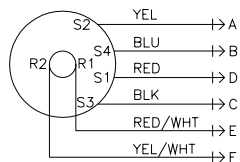
DRAWING NUMBER
DBM-B630/30R1X

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 8.6 KG 19 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

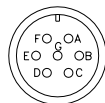
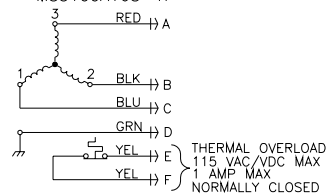


DETAIL A 
RESOLVER CONNECTION
MS3112E10-6P

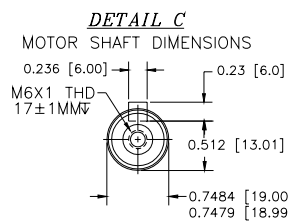
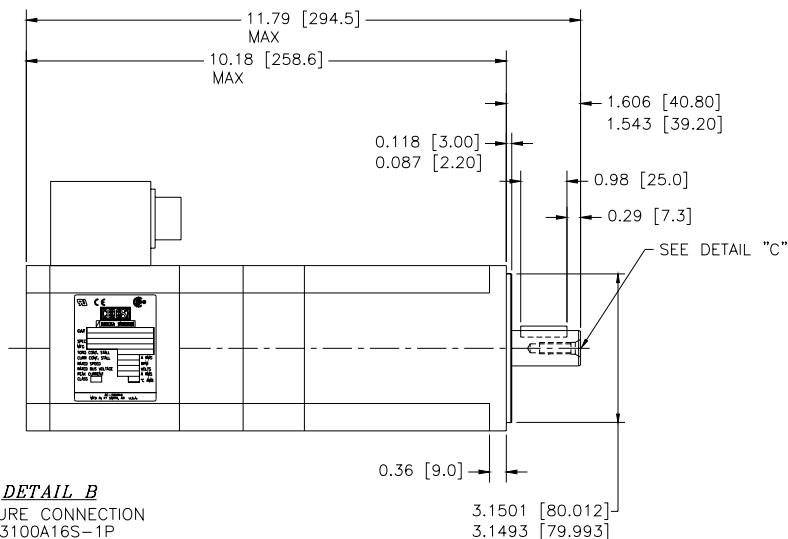
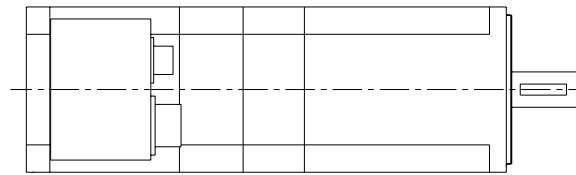


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

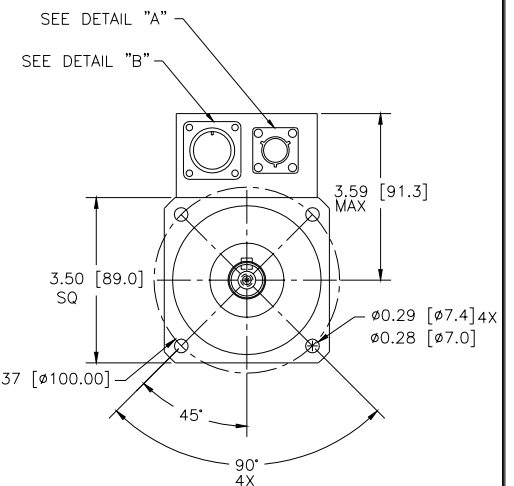
DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

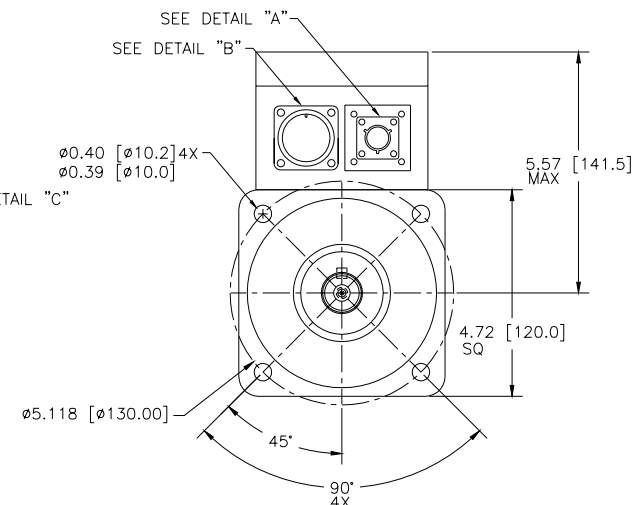
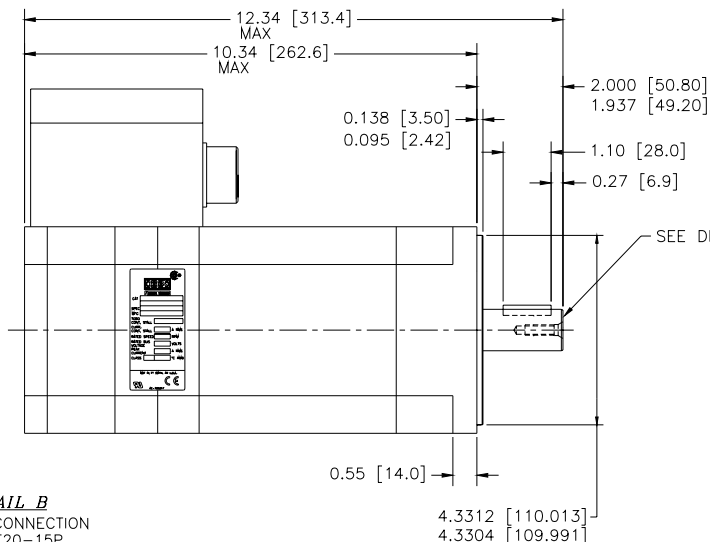
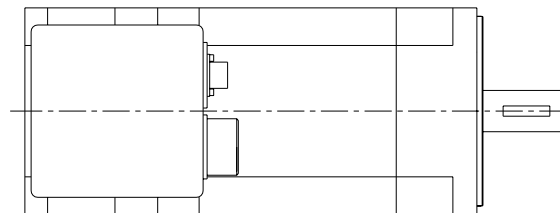
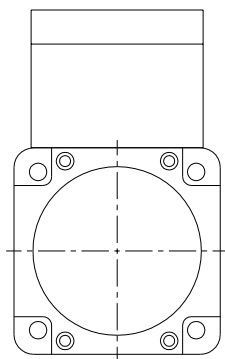


		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0°30'	B 08JAN99	NTS
X.XXX ± 0.005		SHEET NO.	REVISION
		1 OF 1	C
		DRAWING NUMBER DBM-B800/30R	

NOTES: **A**

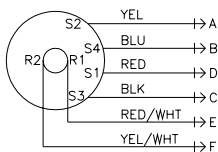
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 13.6 KG 30 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 653 N 146 LBS.
- 6.) RADIAL LOAD 712 N 160 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR



DETAIL A

RESOLVER CONNECTION
MS3112E10-6P

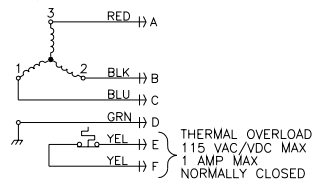


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B

ARMATURE CONNECTION
MS3102E20-15P

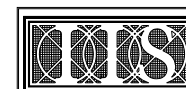
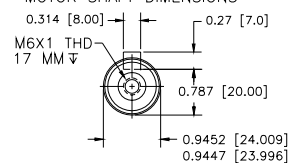


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C

MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

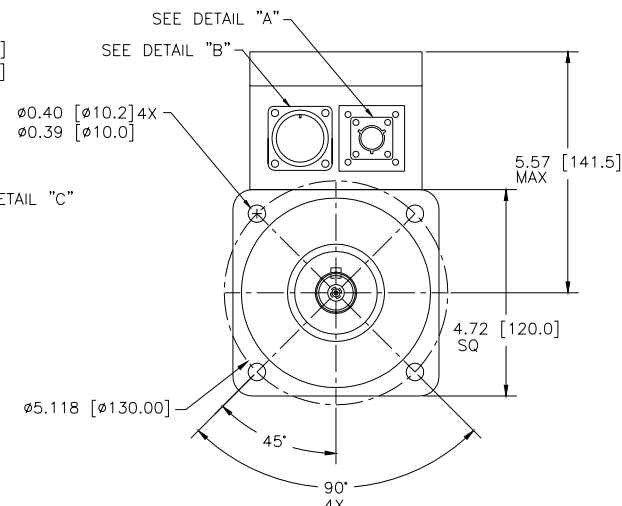
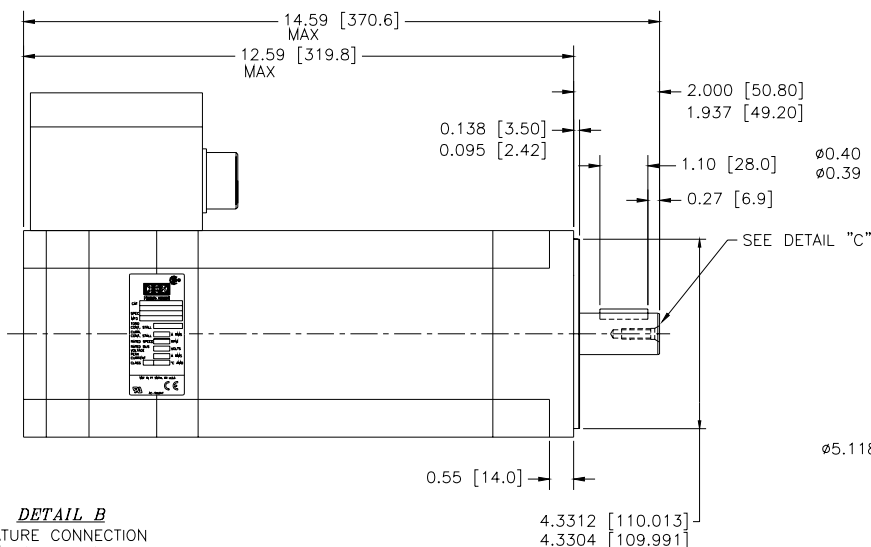
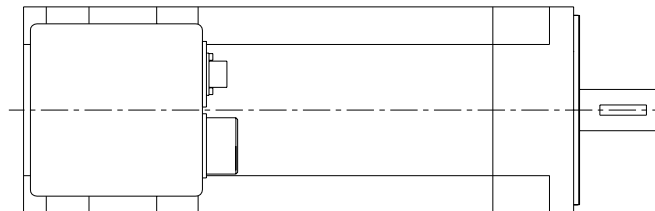
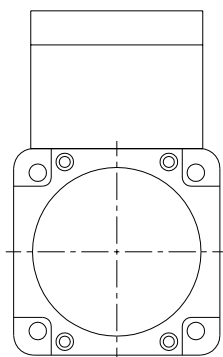
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutocAD FILE LOCATION Q:\CURRENT DWGS		DBM-B1060/30R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	01NOV99	NTS	1 OF 1
X.XXX ± 0.005					B

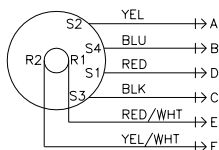
NOTES: **A**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 18.6 KG 41 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 653 N 146 LBS.
- 6.) RADIAL LOAD 712 N 160 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR

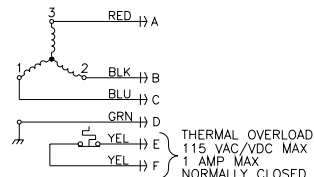


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



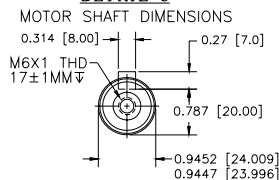
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3102E20-15P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

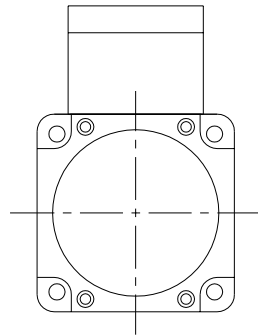
DETAIL C



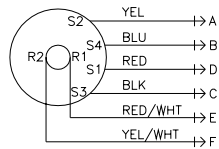
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-B1600/30R
X.X ± ---	ANGULAR ± 0°30'	B DATE 01NOV99	SCALE NTS
X.XX ± 0.01		SHEET NO. 1 OF 1	REVISION B
X.XXX ± 0.005			

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 15 KG 33 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

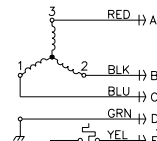


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P

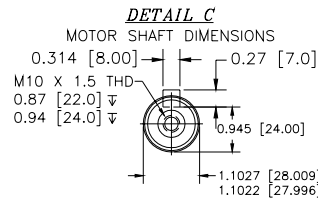
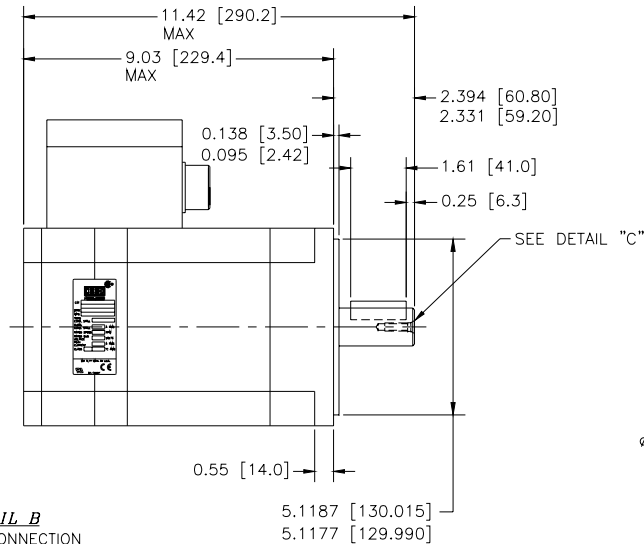
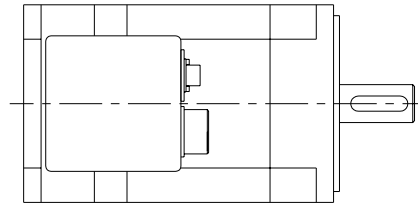


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

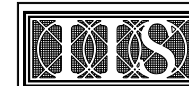
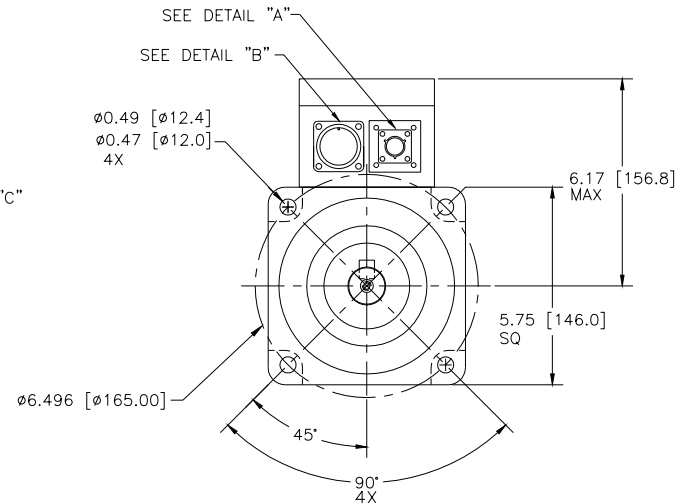
DETAIL B
ARMATURE CONNECTION
MS3102E20-15P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

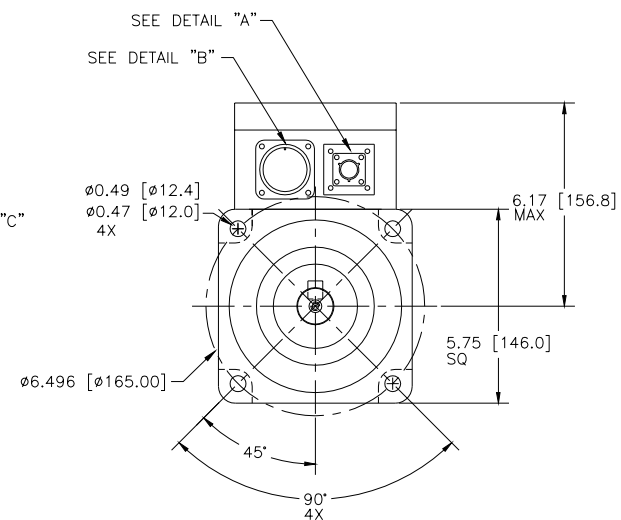
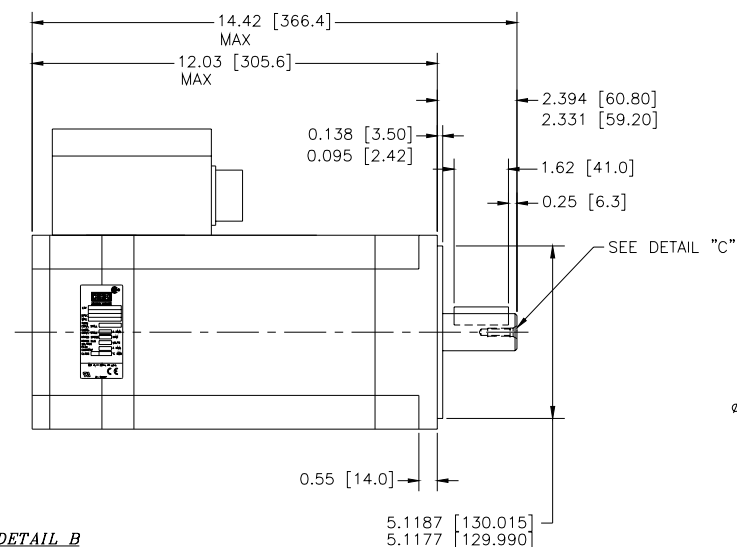
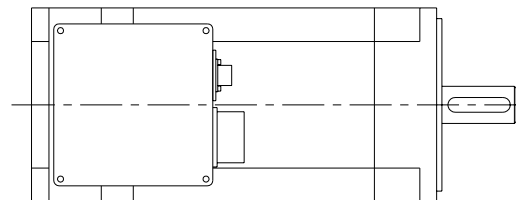
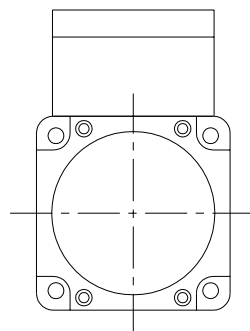
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
TOLERANCES	AutocAD FILE LOCATION Q:\CURRENT DWGS	DBM-B1900/30R	
X.X ± ---	ANGULAR	DATE 01NOV99	SCALE NTS
X.XX ± 0.01	± 0°30'	SHEET NO. 1 OF 1	REVISION B
X.XXX ± 0.005			

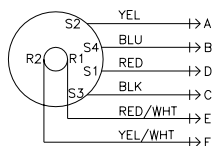
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR

NOTES: **A**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 23.6 KG 52 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

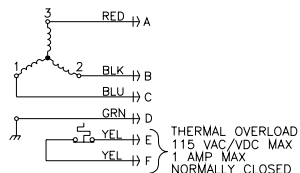


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P

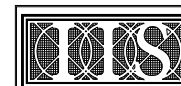
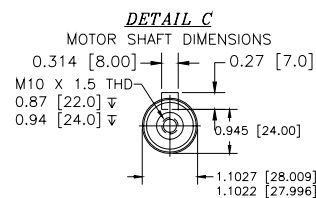


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3102E24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S



INDUSTRIAL INDEXING SYSTEMS, Inc.

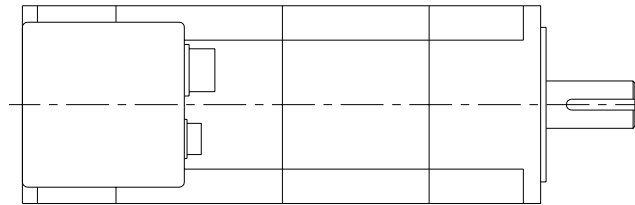
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

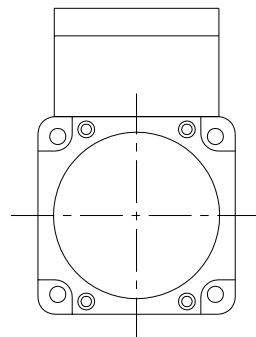
TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-B3000/30R	
X.X±---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX±0.01	± 0° 30'	B 07DEC99	NTS	1 OF 1	B
X.XXX±0.005					

NOTES:

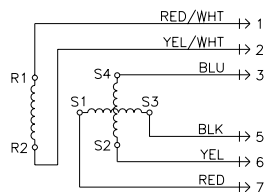
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 36 KG 82 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKER.
- 8.) IP-65 SEALING.



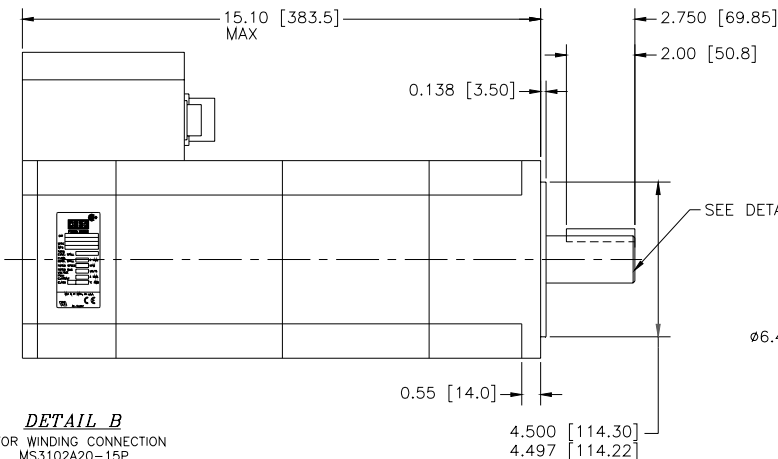
DATE	SYM	REVISION RECORD	DR	CK	CK
18OCT02	0	PER ECN 02-302	CWB		



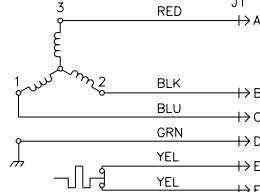
DETAIL A
RESOLVER CONNECTION
JMR1607M



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMR1607F

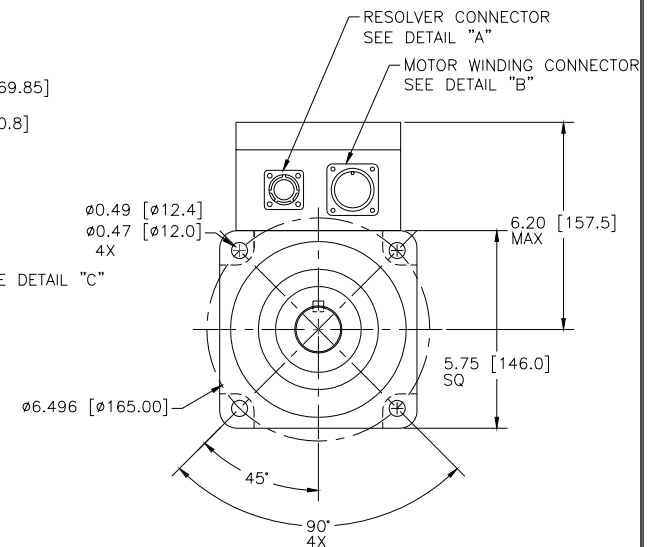


DETAIL B
MOTOR WINDING CONNECTION
MS3102A20-15P

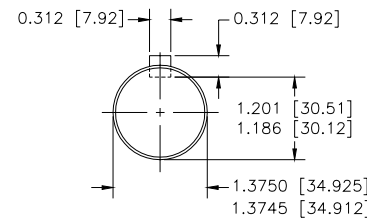


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

THERMAL OVERLOAD
115 VAC/VDC MAX
1 AMP MAX
NORMALLY CLOSED



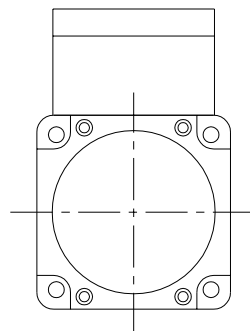
DETAIL C
MOTOR SHAFT DIMENSIONS



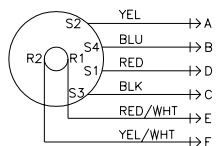
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR ± 0°30'	DBM-B3950/20R	
X.XX ± 0.01			
X.XXX ± 0.005			
		SHEET NO.	
		1 OF 1	
		REVISION	
		0	

NOTES: **A**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 32.3 KG 71 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-65 SEALING.

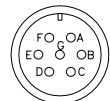
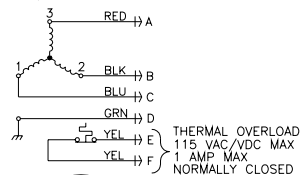


DETAIL A
RESOLVER CONNECTION
MS3112E10-6P

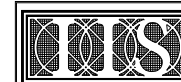
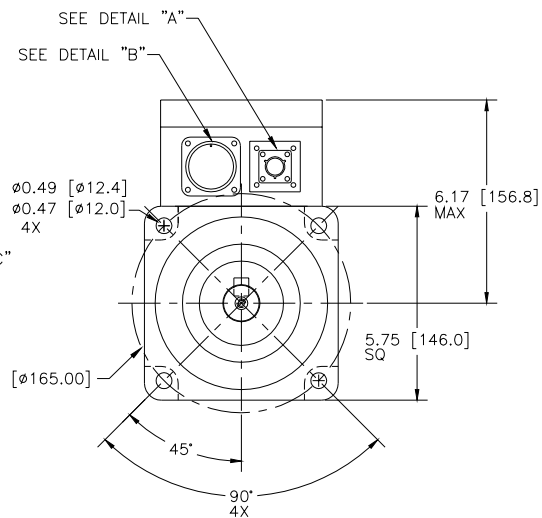
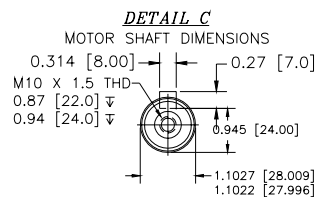
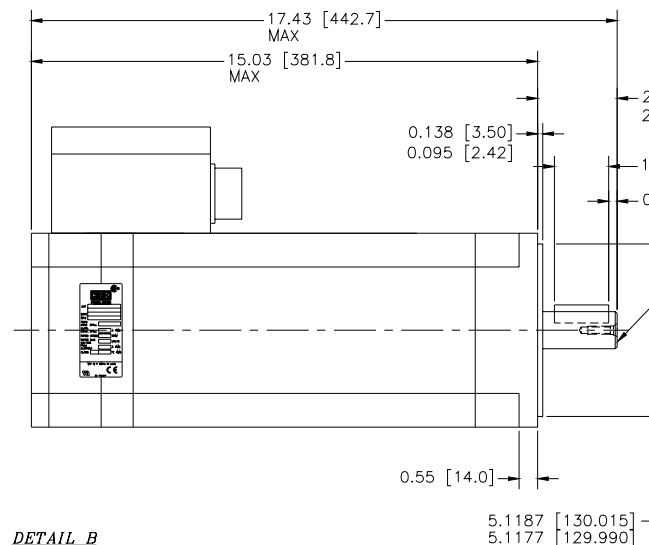
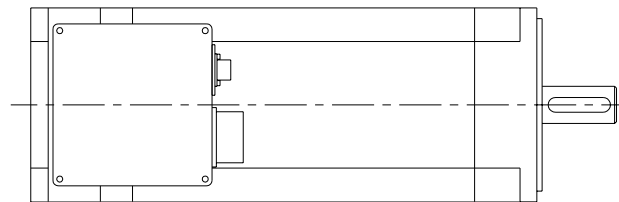


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S

DETAIL B
ARMATURE CONNECTION
MS3102E24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S



INDUSTRIAL INDEXING SYSTEMS, Inc.

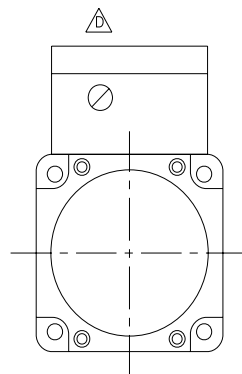
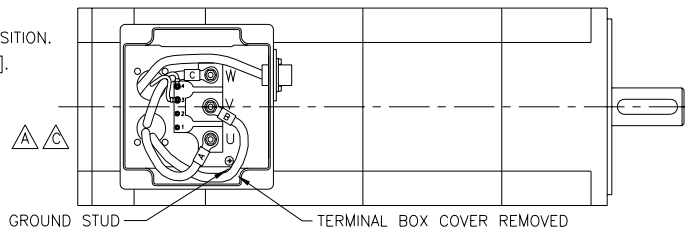
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

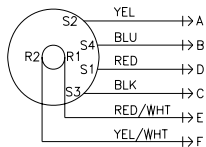
TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-B4400/30R
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0° 30'	01NOV99	NTS
X.XXX ± 0.005			
		SHEET NO.	REVISION
		1 OF 1	B

NOTES: 

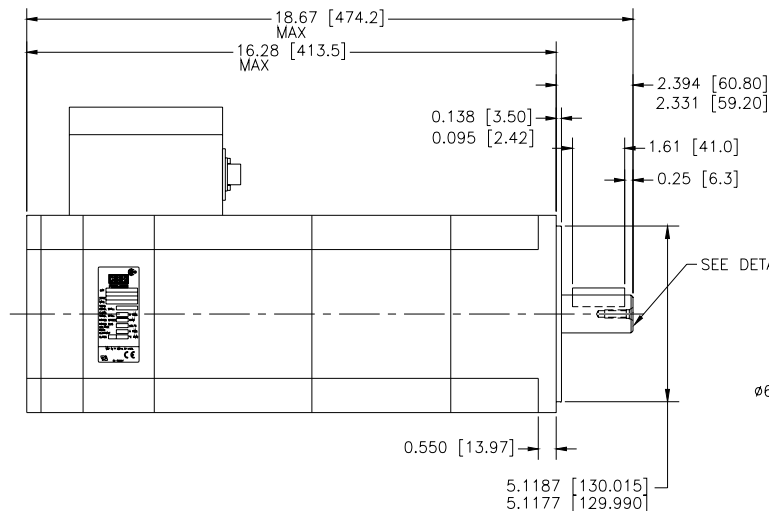
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 36 KG 79 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKER.
- 8.) IP-65 SEALING.



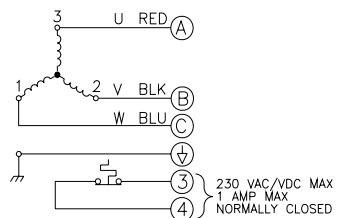
DETAIL A
RESOLVER CONNECTION
MS3112E10-6P



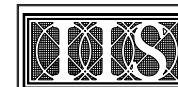
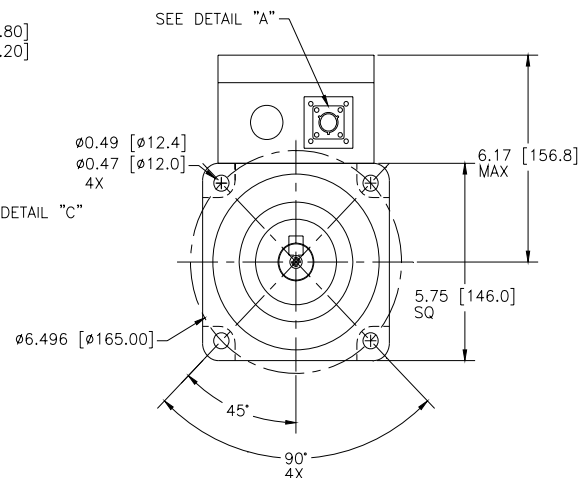
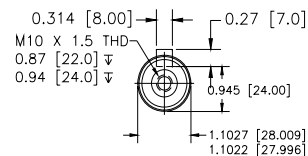
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S



DETAIL B   
ARMATURE CONNECTION



DETAIL C
MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

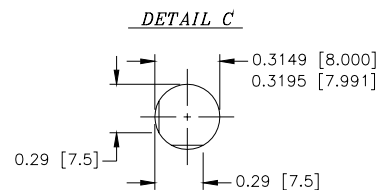
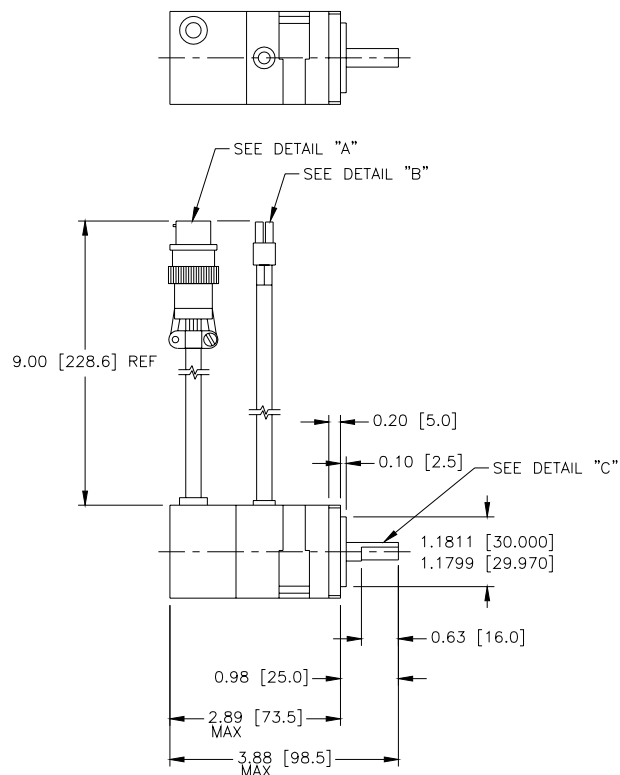
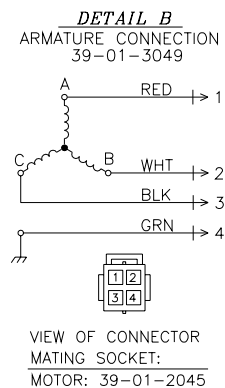
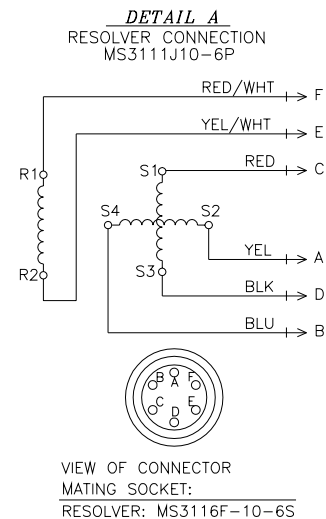
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

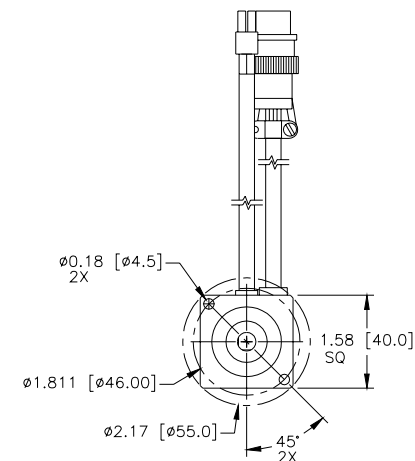
TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES (mm)		DRAWN BY	DRAWING NUMBER
TOLERANCES		BOWMAN	
X.X ± ---		Autocad FILE LOCATION	DBM-B5600/30R
X.XX ± 0.01		Q: CURRENT DWGS	
X.XXX ± 0.005		DATE	SHEET NO.
		01NOV99	1 OF 1
		SCALE	REVISION
		NTS	D

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 0.5 KG 1.1 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 39 N 8.7 LBS
- 6.) RADIAL LOAD 78 N 17.5 LBS
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 9" ± 2 " [228 $\pm$ 50].



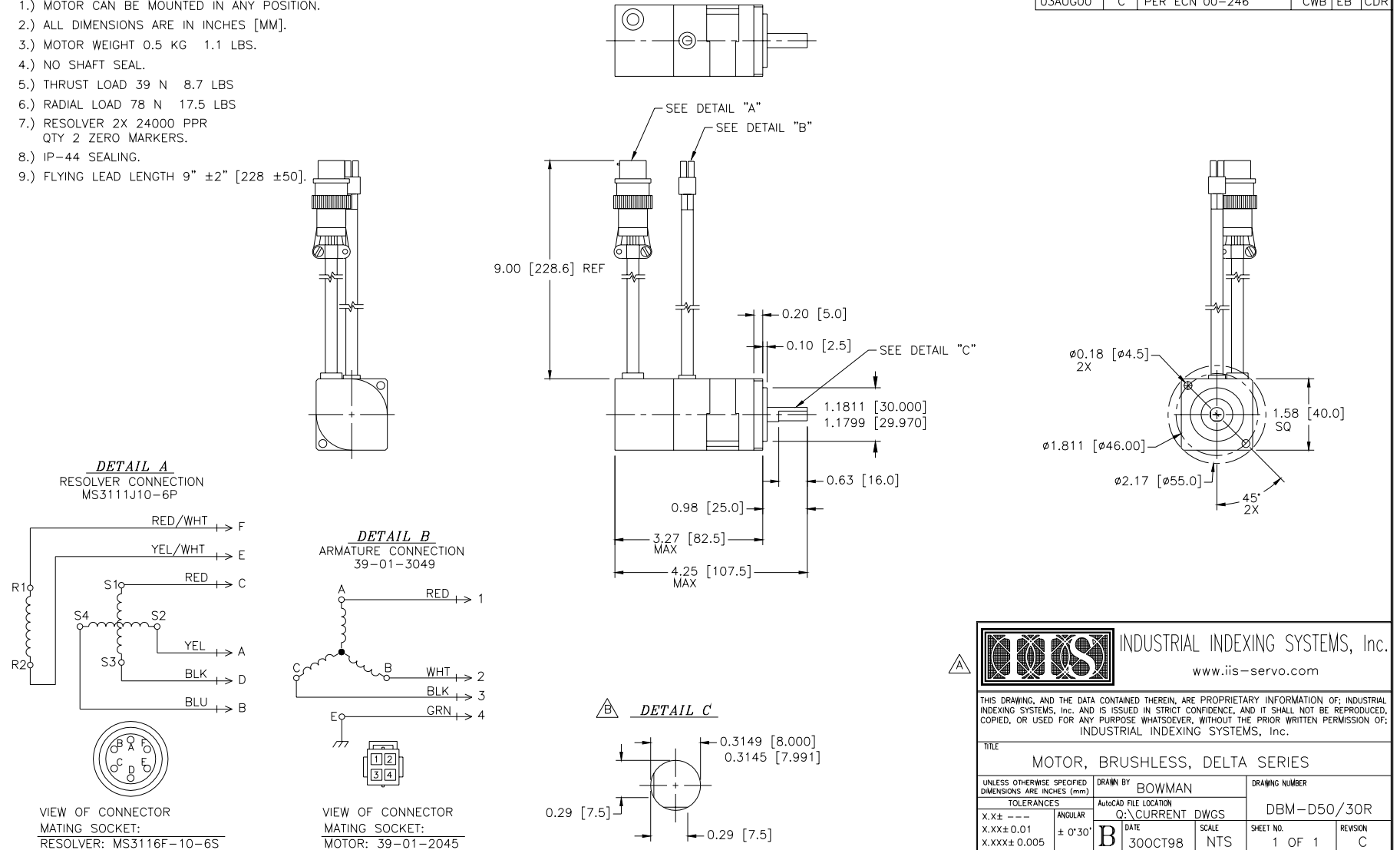
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	A	PER ECN 00-246	CWB	EB	CDR



 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-D30/30R	
TOLERANCES X.X $\pm$ --- X.XX $\pm$ 0.01 X.XXX $\pm$ 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
ANGULAR $\pm$ 0° 30'		DATE 14FEB00		SCALE NTS	
REVISION A		REVISION A		REVISION A	

NOTES:

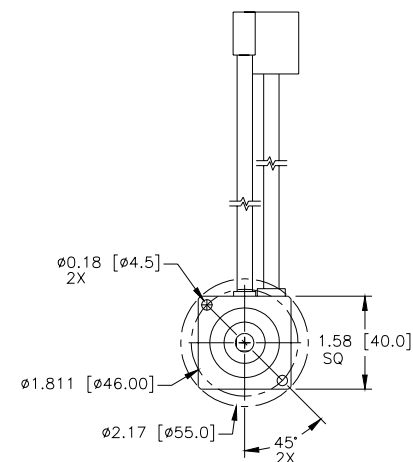
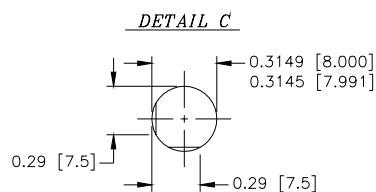
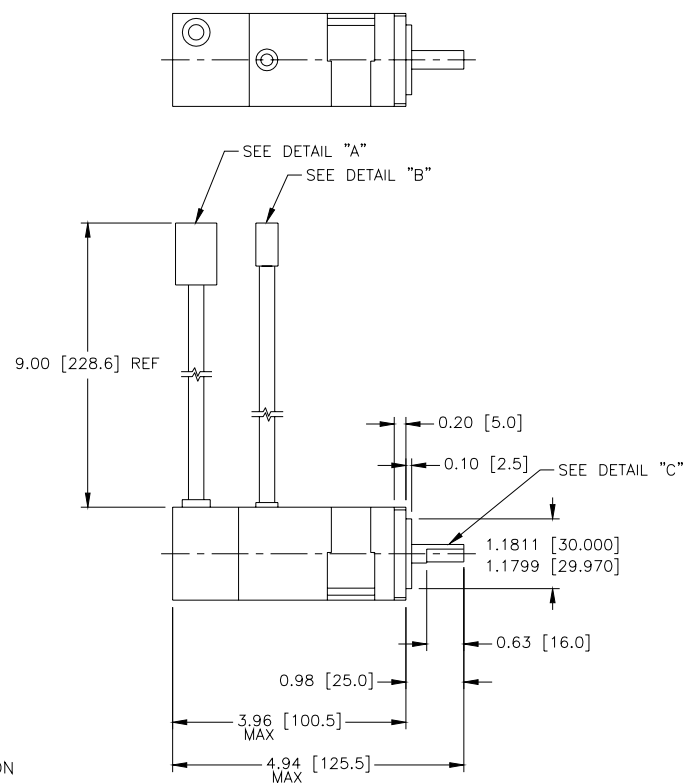
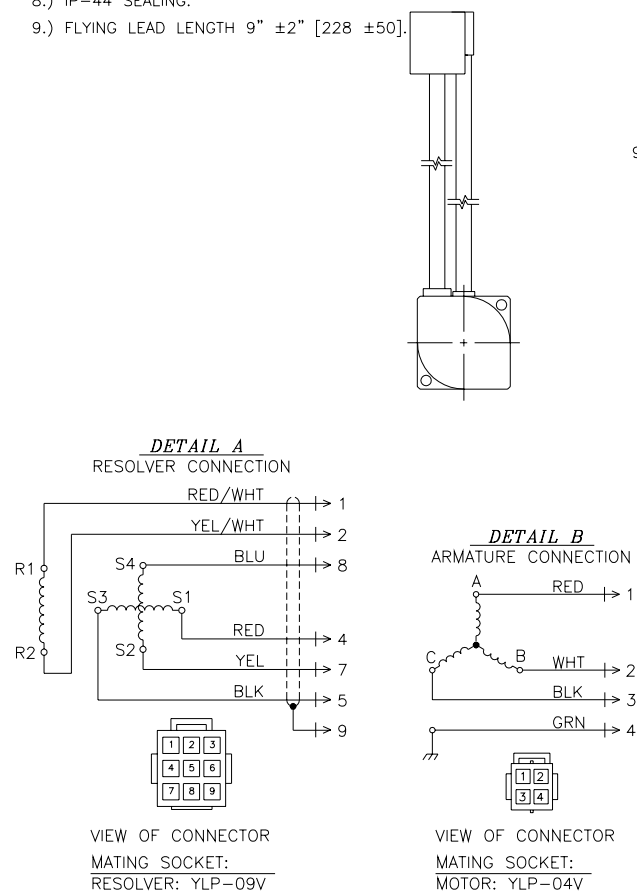
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 0.5 KG 1.1 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 39 N 8.7 LBS
- 6.) RADIAL LOAD 78 N 17.5 LBS
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 9" ± 2 " [228 ± 50].



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	A	PER ECN 00-246	CWB	EB	CDR

NOTES:

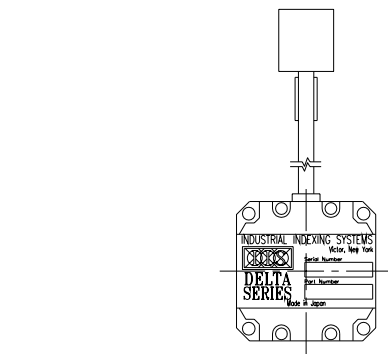
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 0.6 KG 1.3 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 39 N 8.7 LBS
- 6.) RADIAL LOAD 78 N 17.5 LBS
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 9" $\pm$ 2" [228 $\pm$ 50].



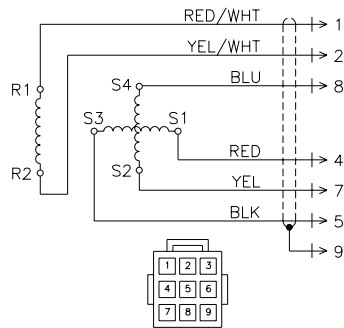
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-D100/30R	
X.X $\pm$ ---	ANGULAR $\pm$ 0° 30'	DATE 15FEB00	SCALE NTS
X.XX $\pm$ 0.01		SHEET NO. 1 OF 1	REVISION A
X.XXX $\pm$ 0.005			

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 1.2 KG 2.6 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 69 N 15.5 LBS.
- 6.) RADIAL LOAD 196 N 44 LBS.
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 12" $\pm$ 2" [305 $\pm$ 50].

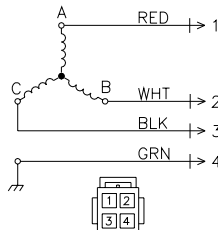


DETAIL A
RESOLVER CONNECTION

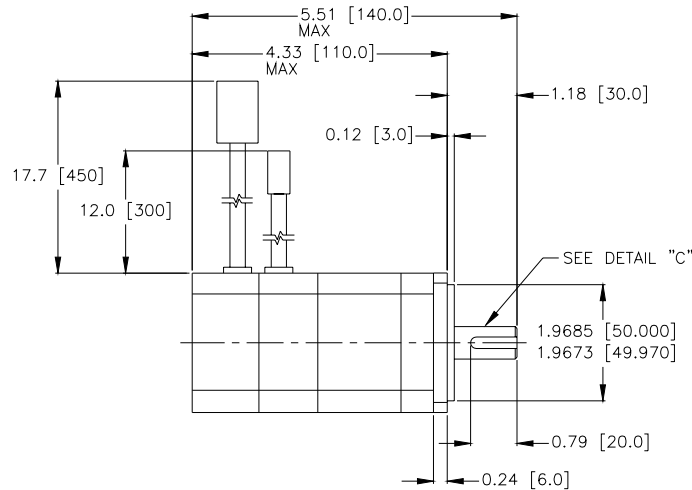


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V

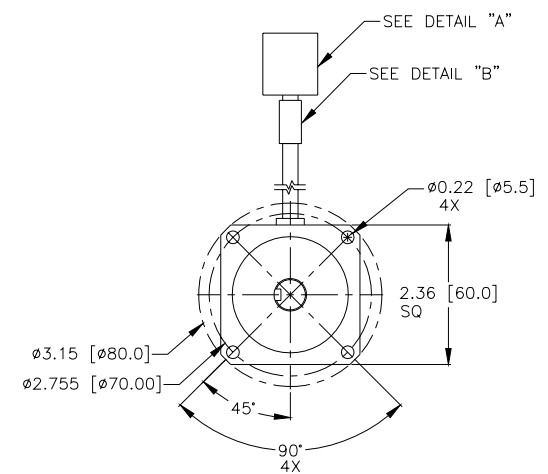
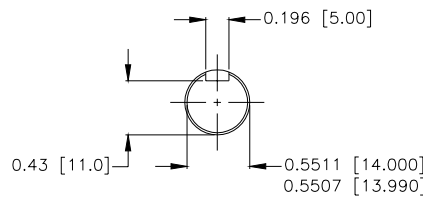
DETAIL B
ARMATURE CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V



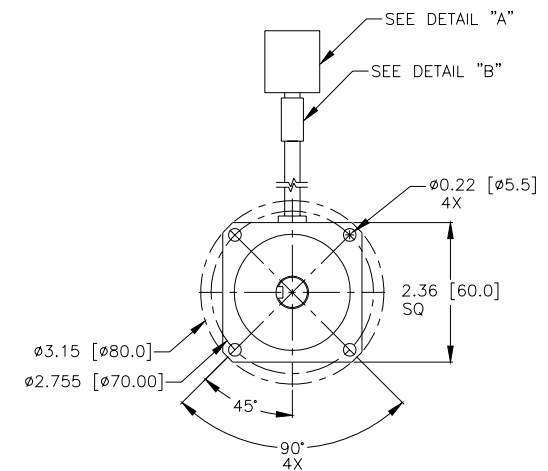
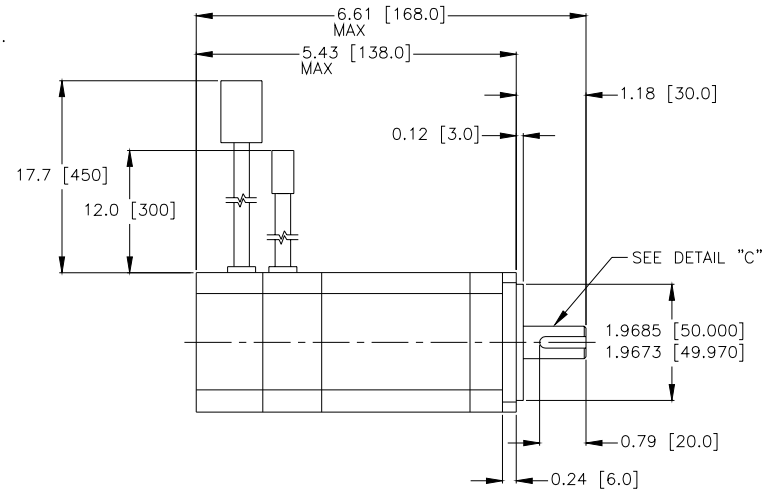
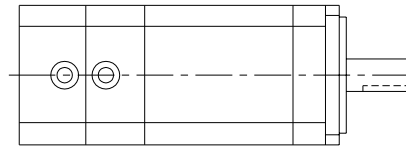
DETAIL C



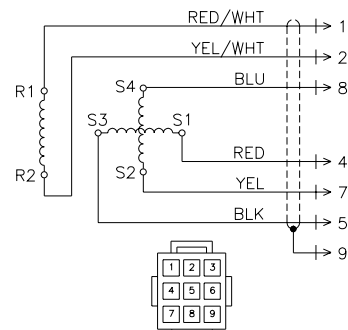
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY	
		BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION	
		Q:\CURRENT DWGS	
X.Xt ---	ANGULAR	DBM-D200/30R	
X.XX ± 0.01	± 0° 30'	DATE	SCALE
X.XXX ± 0.005		B	NTS
		15FEB00	1 OF 1
		SHEET NO.	REVISION
			A

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 1.7 KG 3.7 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 69 N 15.5 LBS.
- 6.) RADIAL LOAD 196 N 44 LBS.
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 12" ±2" [305 ±50].

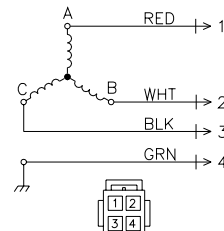


DETAIL A
RESOLVER CONNECTION



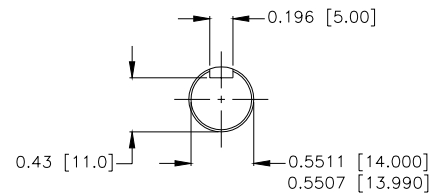
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V

DETAIL B
ARMATURE CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V

DETAIL C

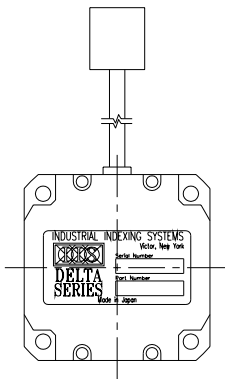


DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	A	PER ECN 00-246	CWB	EB	CDR

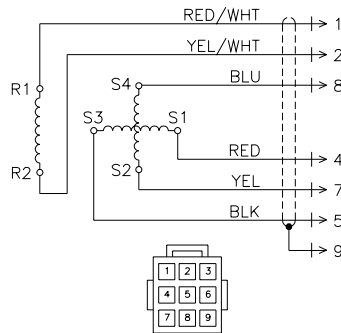
INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-D400/30R	
TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
ANGULAR ± 0° 30'		DATE 15FEB00		SCALE NTS	
REVISION A		REVISION A		REVISION A	

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 2.7 KG 6 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 98 N 22 LBS.
- 6.) RADIAL LOAD 343 N 77 LBS.
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 12" ±2" [305 ±50].

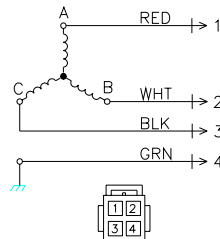


DETAIL A
RESOLVER CONNECTION

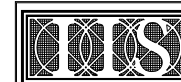
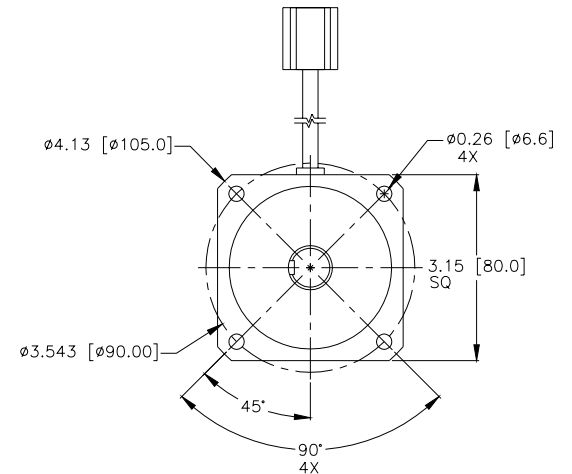
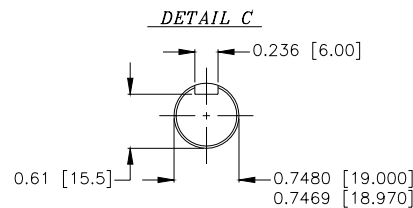
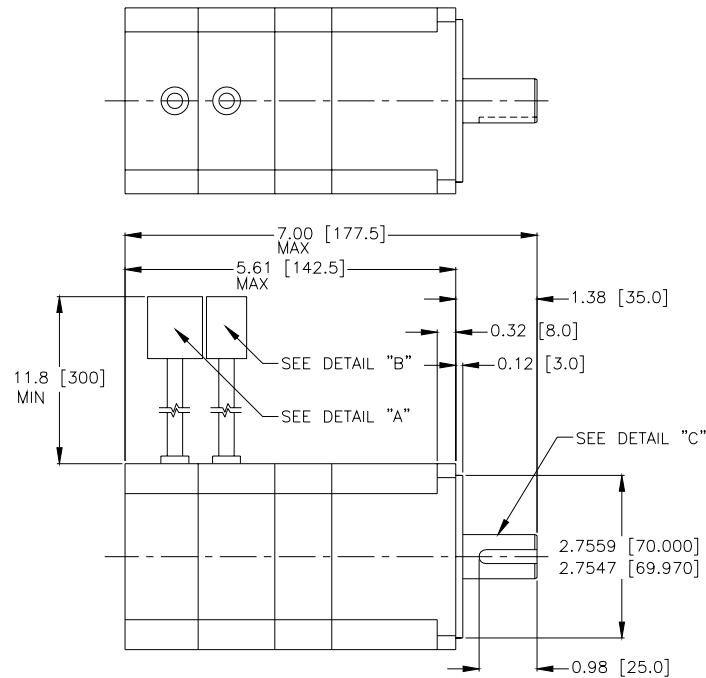


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V

DETAIL B
ARMATURE CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V



INDUSTRIAL INDEXING SYSTEMS, Inc.

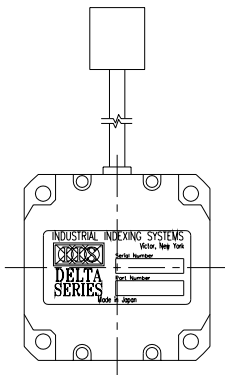
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

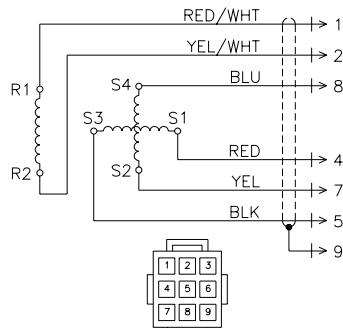
TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0° 30'	15FEB00	NTS
X.XXX ± 0.005		SHEET NO.	REVISION
		1 OF 1	A
DRAWING NUMBER		DBM-D600/30R	

NOTES:

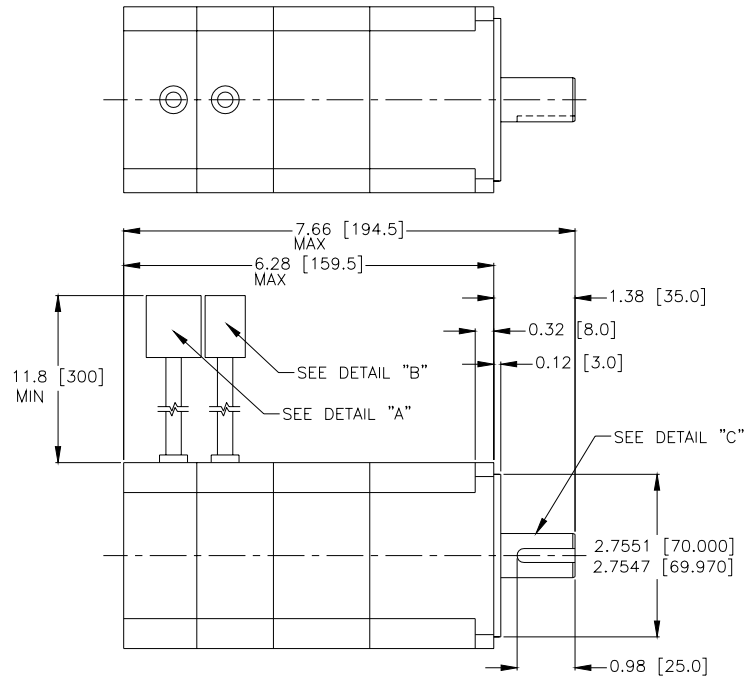
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 5.5 KG 12.1 LBS.
- 4.) NO SHAFT SEAL.
- 5.) THRUST LOAD 98 N 22 LBS.
- 6.) RADIAL LOAD 343 N 77 LBS.
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) FLYING LEAD LENGTH 12" ± 2 " [305 $\pm$ 50].



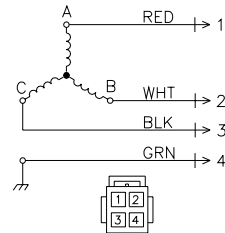
DETAIL A
RESOLVER CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V

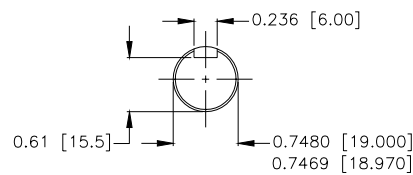


DETAIL B
ARMATURE CONNECTION

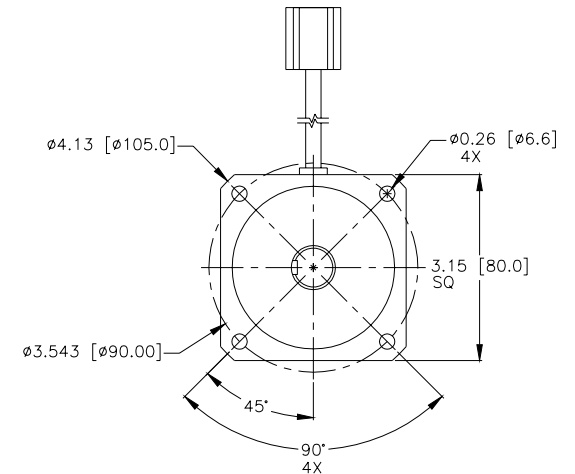


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	A	PER ECN 00-246	CWB	EB	CDR



THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

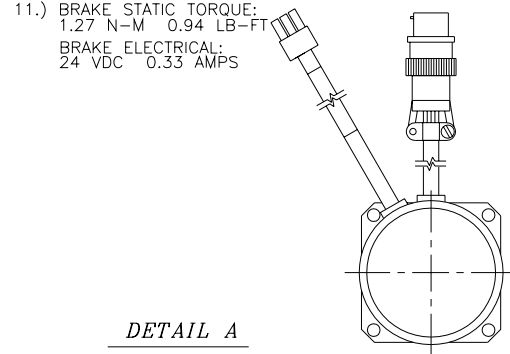
TITLE					
MOTOR, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-D800/30R	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	NTS	1 OF 1	A
X.XXX ± 0.005		15FEB00			

A.7 BRAKE MOTOR DIMENSIONS

<u>DRAWING NUMBER</u>	<u>DESCRIPTION</u>
DBM-120/30RB	Brushless Delta Series Brake Motor
DBM-200/30RB	Brushless Delta Series Brake Motor
DBM-400/15RB	Brushless Delta Series Brake Motor
DBM-400/30RB	Brushless Delta Series Brake Motor
DBM-500/30RB	Brushless Delta Series Brake Motor
DBM-800/15RB	Brushless Delta Series Brake Motor
DBM-800/30RB	Brushless Delta Series Brake Motor
DBM-1000/15RB	Brushless Delta Series Brake Motor
DBM-1400/30RB	Brushless Delta Series Brake Motor
DBM-1500/15RB	Brushless Delta Series Brake Motor
DBM-1800/30RB	Brushless Delta Series Brake Motor
DBM-1800/30RAB	Brushless Delta Series Absolute Brake Motor
DBM-2400/30RB	Brushless Delta Series Brake Motor
DBM-2600/15RB	Brushless Delta Series Brake Motor
DBM-3700/15RB	Brushless Delta Series Brake Motor
DBM-3700/30RB	Brushless Delta Series Brake Motor
DBM-5000/15RB	Brushless Delta Series Brake Motor
DBM-5500/30RB	Brushless Delta Series Brake Motor
DBM-6500/30RB	Brushless Delta Series Brake Motor
DBM-7500/20RB	Brushless Delta Series Brake Motor
DBM-10000/20RB	Brushless Delta Series Brake Motor
DBM-B3000/30RB	Brushless Delta B Series Brake Motor
DBM-D800/30EAB	Brushless Delta D Series Absolute Brake Motor
DBM-D800/30RB	Brushless Delta D Series Brake Motor

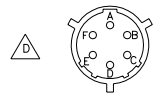
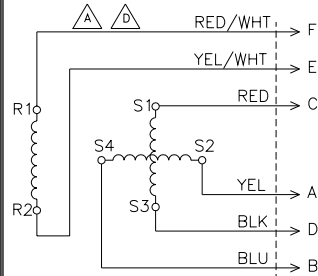
NOTES: $\triangle$ $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 1.6 KG 3.5 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 74 N 16 LBS
- 6.) RADIAL LOAD 147 N 33 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-30 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12"±2" [305±50].
- 11.) BRAKE STATIC TORQUE:
1.27 N-M 0.94 LB-FT
BRAKE ELECTRICAL:
24 VDC 0.33 AMPS



DETAIL A

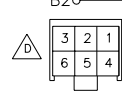
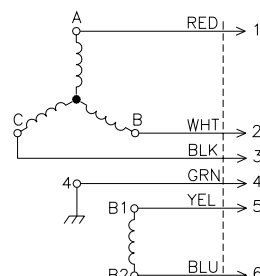
RESOLVER CONNECTION
ITT/CANON KPT01 J10 6P



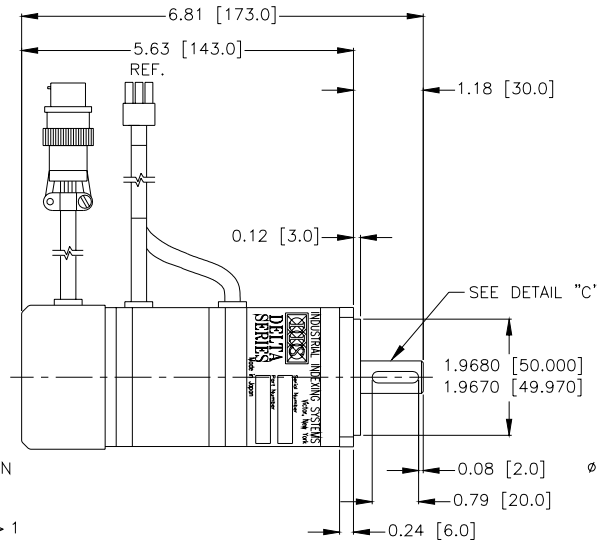
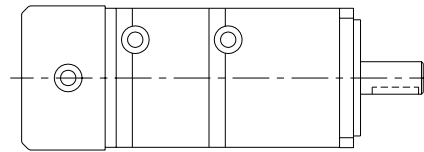
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F-10-6S

DETAIL B

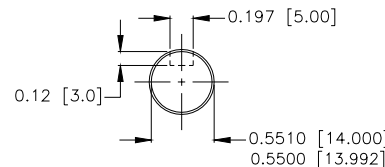
ARMATURE CONNECTION
MOLEX 39-01-3069



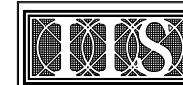
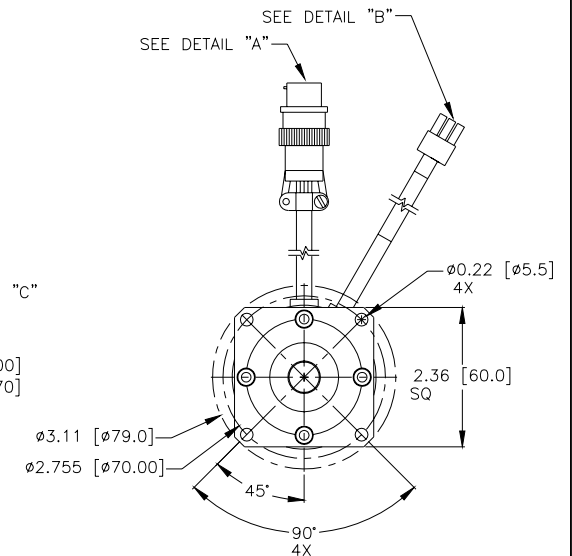
VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MOLEX 39-01-2065



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	F	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

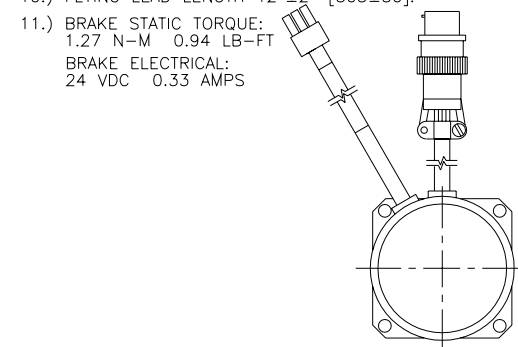
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-120/30RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X±---	ANGULAR	DATE	SCALE	REVISION	
X.XX±0.01	± 0°30'	09MAY96	NTS	F	
X.XXX±0.005					

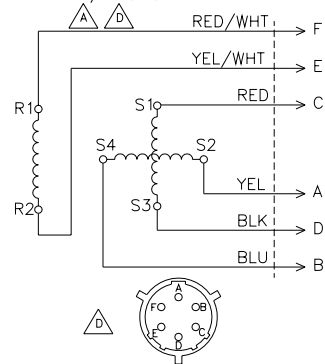
NOTES: $\triangle$ $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 1.9 KG 4.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 74 N 16 LBS
- 6.) RADIAL LOAD 186 N 41 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-30 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH $12" \pm 2"$ [305 $\pm$ 50].
- 11.) BRAKE STATIC TORQUE:
1.27 N-M 0.94 LB-FT
BRAKE ELECTRICAL:
24 VDC 0.33 AMPS



DETAIL A

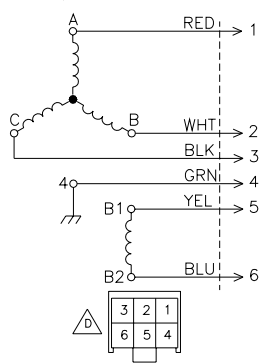
RESOLVER CONNECTION
ITT/CANON KPT01 J10 6P



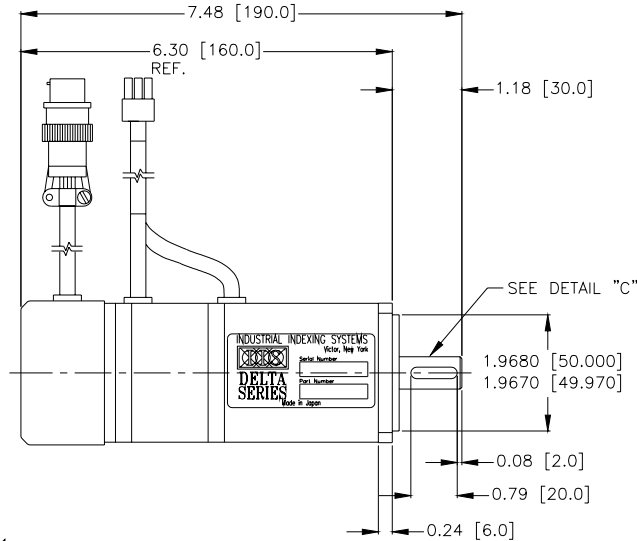
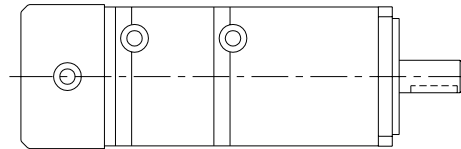
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F-10-6S

DETAIL B

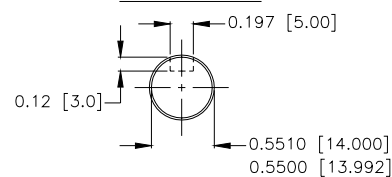
ARMATURE CONNECTION
MOLEX 39-01-3069



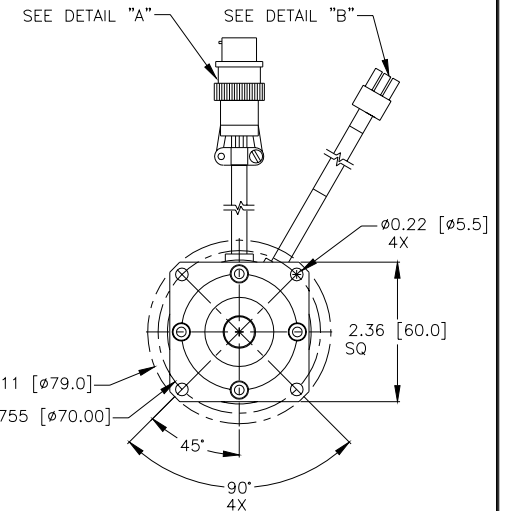
VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MOLEX 39-01-2065



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	F	PER ECN 00-246	CWB	EB	CDR

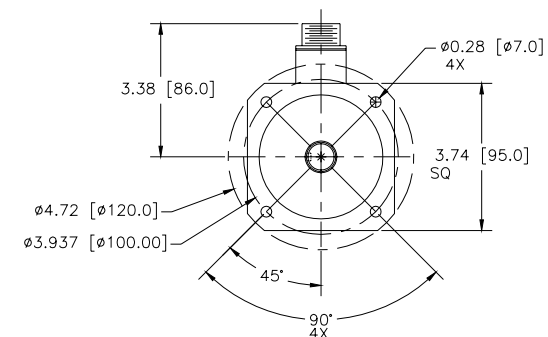
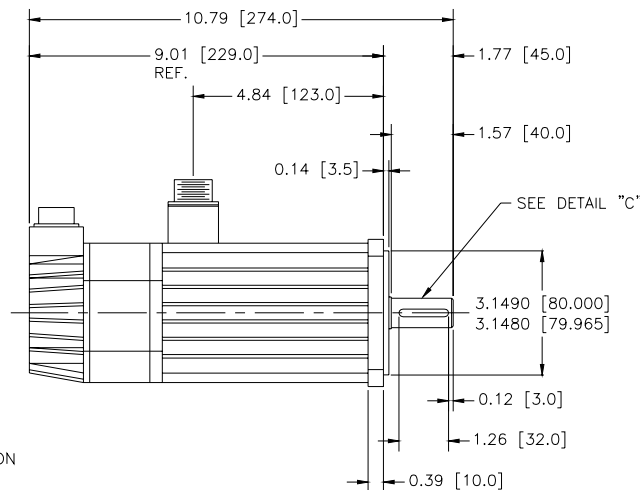
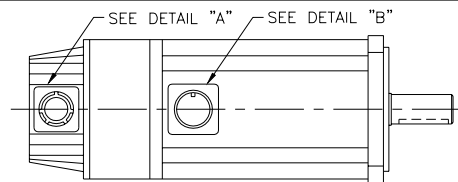


		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-200/30RB	
TOLERANCES X.X ± --- X.XX ± 0.01 X.XXX ± 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS DATE 06MAY96		SCALE NTS	
ANGULAR ± 0° 30'		SHEET NO. 1 OF 1		REVISION F	

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

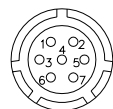
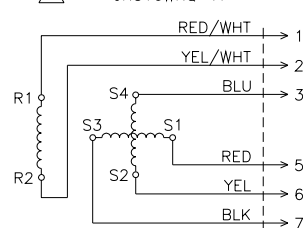
NOTES:  

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 5.3 KG 11.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 559 N 126 LBS
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 1.9 N-M 1.4 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.41 AMPS



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

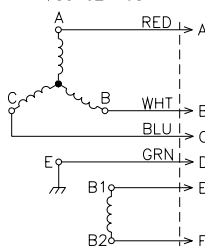


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

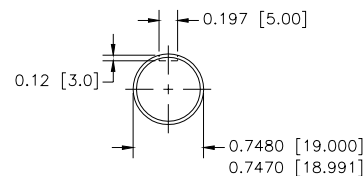
ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C





INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

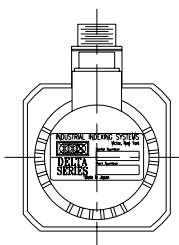
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-400/15RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DATE 05MAY97	
X.X ± .001	ANGULAR ± 0° 30'	SCALE NTS	SHEET NO. 1 OF 1	REVISION C	

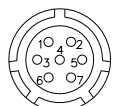
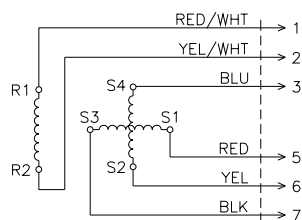
NOTES: $\triangle A$ $\triangle B$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 4.0 KG 8.8 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 49 N 11 LBS
- 6.) RADIAL LOAD 284 N 64 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 1.9 N-M 1.4 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.41 AMPS



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

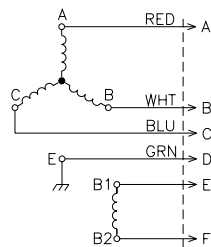


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

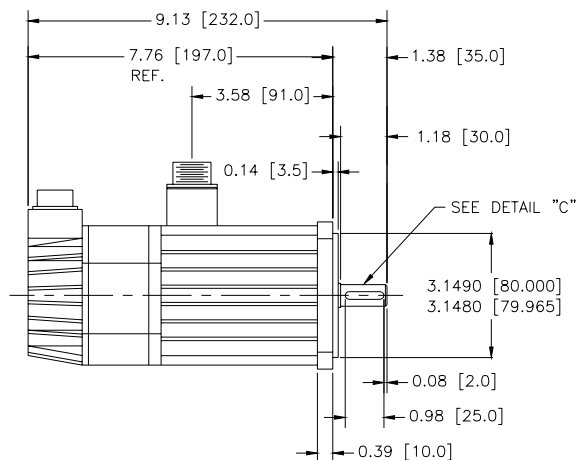
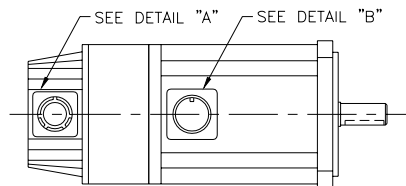
DETAIL B

ARMATURE CONNECTION
MS3102A16S-1P

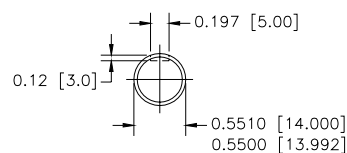


VIEW OF CONNECTOR

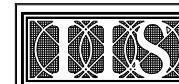
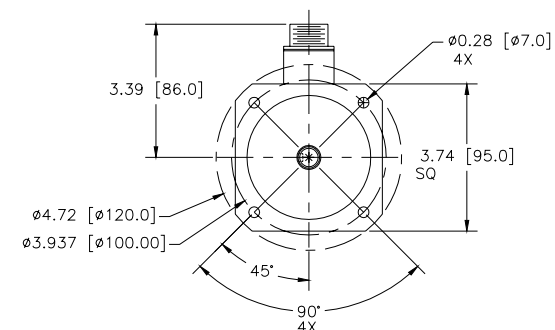
MATING SOCKET:
MOTOR: MS3106A16S-1S



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

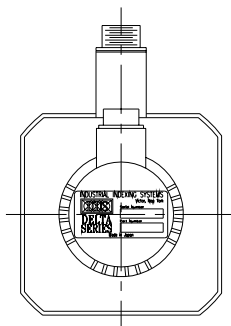
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-500/30RB	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	05MAY97	1 OF 1	C
X.XXX ± 0.005			NTS		

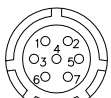
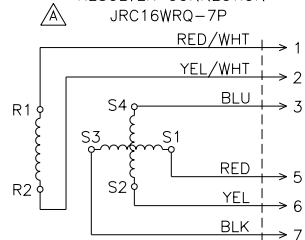
NOTES: **A**

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 8.2 KG 18.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 27 LBS
- 6.) RADIAL LOAD 647 N 145 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.63 AMPS



DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

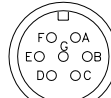
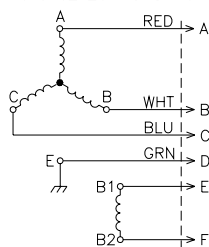


VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F

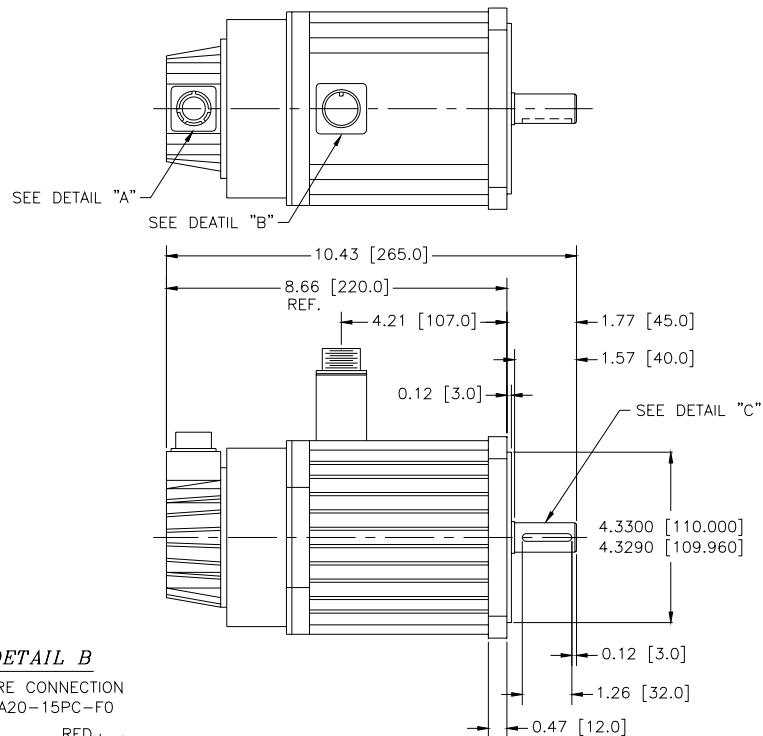
DETAIL B

ARMATURE CONNECTION
JA3102A20-15PC-F0

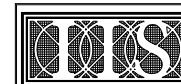
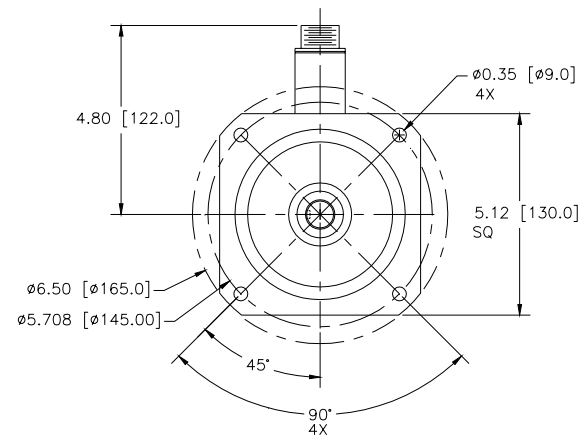
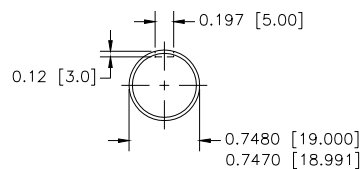


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

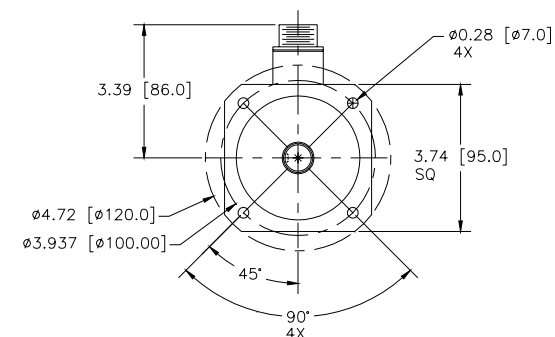
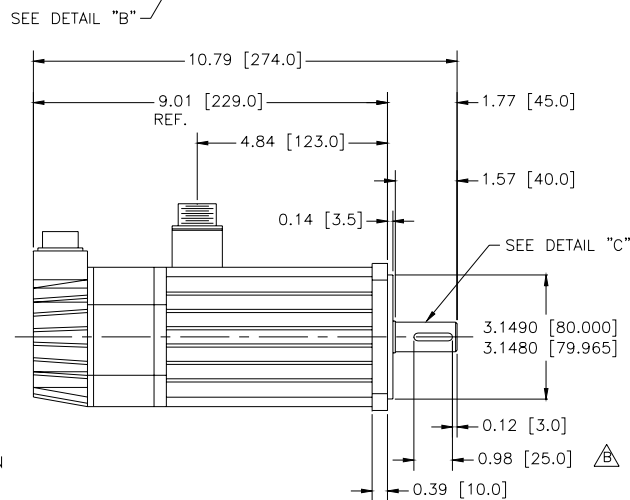
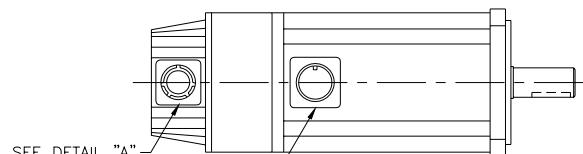
TITLE			
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-800/15RB
X.X ± .001	ANGULAR	DATE	SHEET NO.
X.XX ± 0.01	± 0° 30'	05MAY97	1 OF 1
X.XXX ± 0.005		SCALE NTS	REVISION C

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

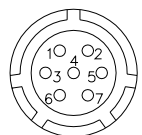
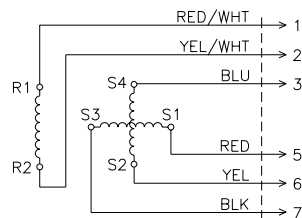
NOTES:  

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 5.3 KG 11.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 88 N 20 LBS
- 6.) RADIAL LOAD 441 N 99 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 1.9 N-M 1.4 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.41 AMPS



DETAIL A

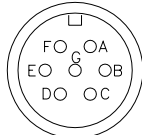
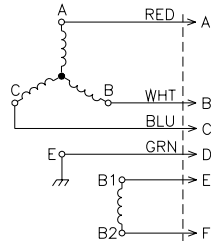
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

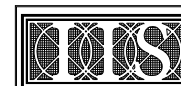
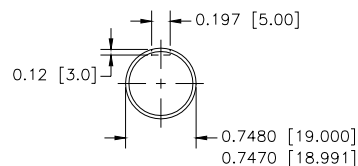
DETAIL B

ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

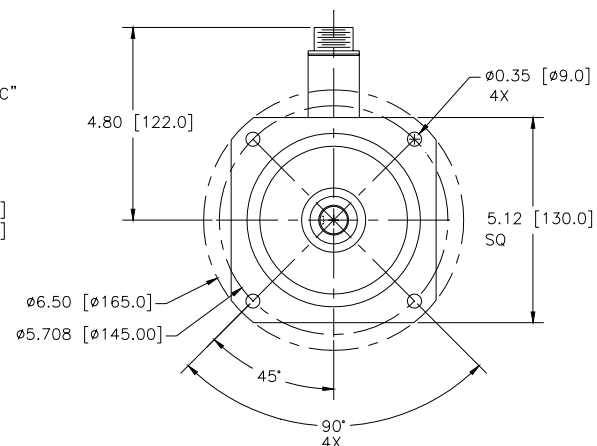
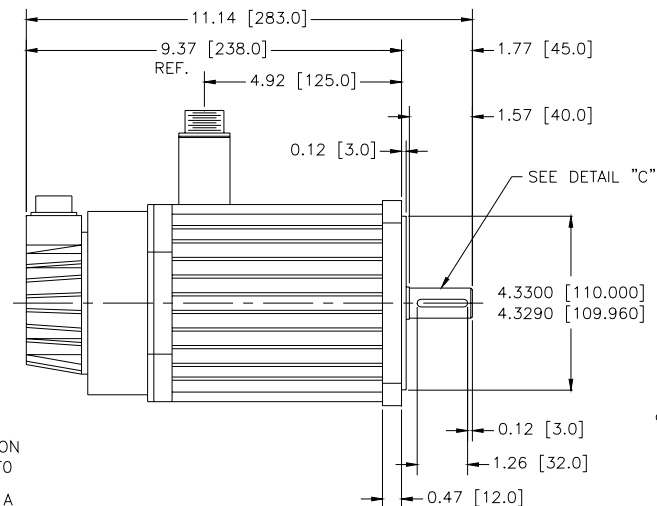
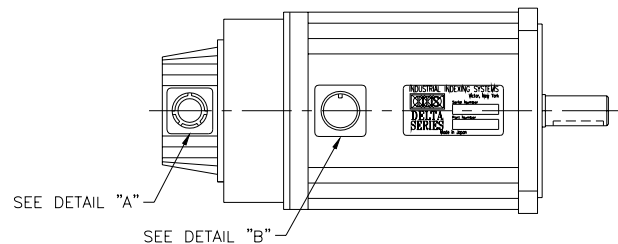
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-800/30RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS			
X.X ± .001	ANGULAR ± 0° 30'	DATE 07MAY97	SCALE NTS	SHEET NO. 1 OF 1	REVISION D

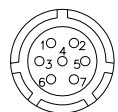
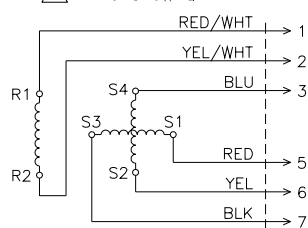
NOTES: $\triangle$ $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 9.8 KG 21.6 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 27 LBS
- 6.) RADIAL LOAD 676 N 152 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.63 AMPS



DETAIL A

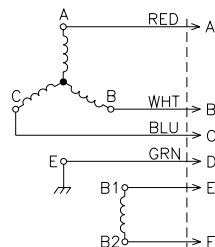
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

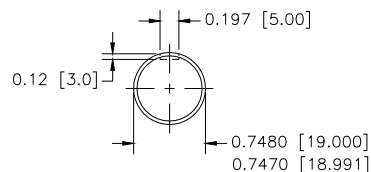
DETAIL B

ARMATURE CONNECTION
JA3102A20-15PC-F0

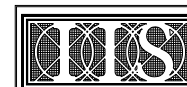


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

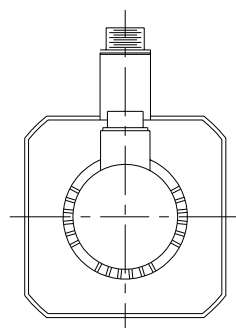
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-1000/15RB	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B 07MAY97	NTS	1 OF 1	C
X.XXX ± 0.005					

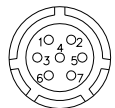
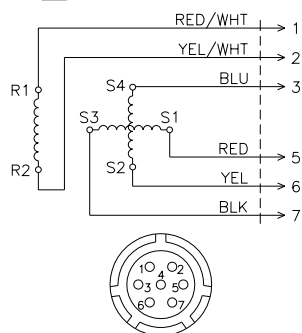
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 8.2 KG 18.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 510 N 115 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.63 AMPS



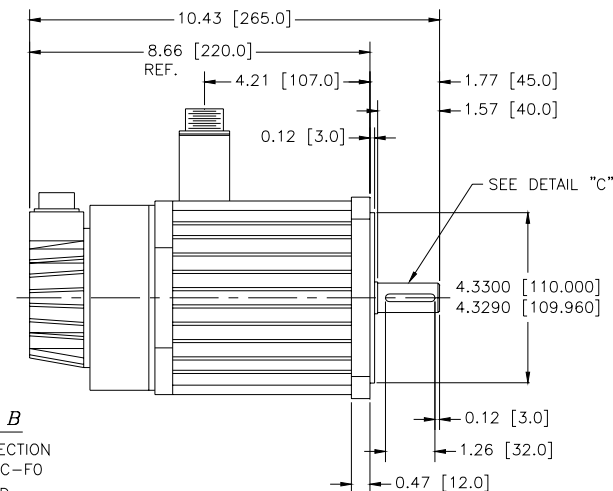
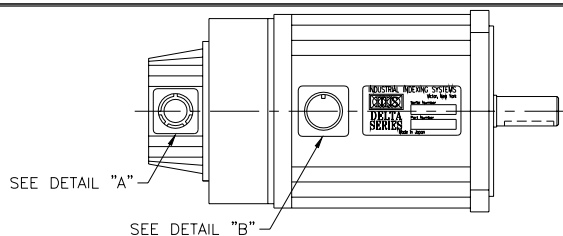
DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P



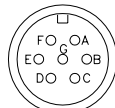
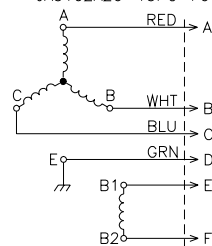
VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F



DETAIL B

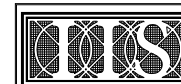
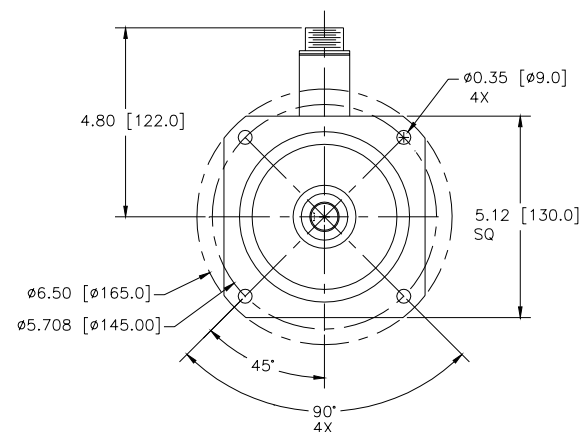
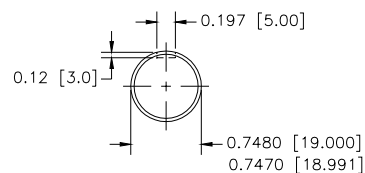
ARMATURE CONNECTION
JA3102A20-15PC-F0



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

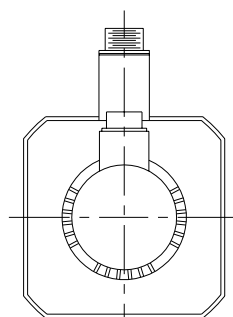
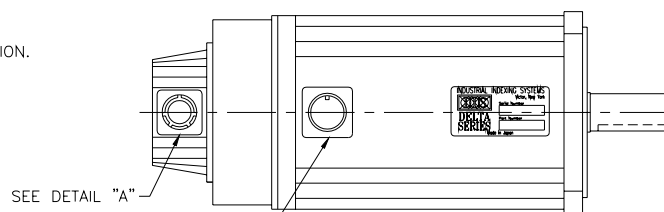
TITLE			
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0° 30'	07MAY97	NTS
X.XXX ± 0.005		SHEET NO.	REVISION
		1 OF 1	C

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	C	PER ECN 00-246	CWB	EB	CDR

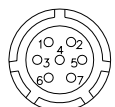
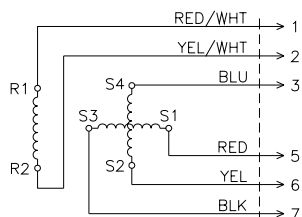
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 13 KG 28.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 118 N 27 LBS
- 6.) RADIAL LOAD 706 N 159 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.63 AMPS

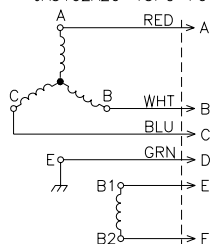


DETAIL A
RESOLVER CONNECTION
JRC16WRQ-7P

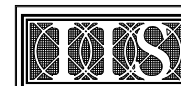
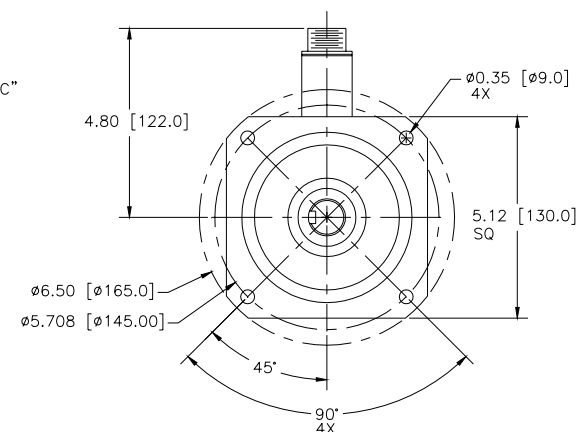
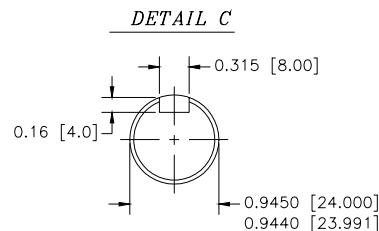


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B
ARMATURE CONNECTION
JA3102A20-15PC-F0



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S



INDUSTRIAL INDEXING SYSTEMS, Inc.

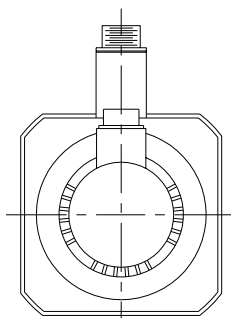
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-1500/15RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± .001	ANGULAR ± 0° 30'	DATE 07MAY97	SCALE NTS	REVISION D	

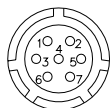
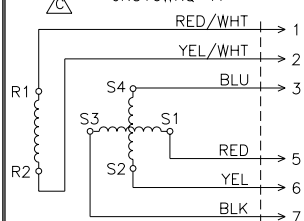
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 10.0 KG 22.1 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 539 N 121 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL 24 VDC 0.63 AMPS



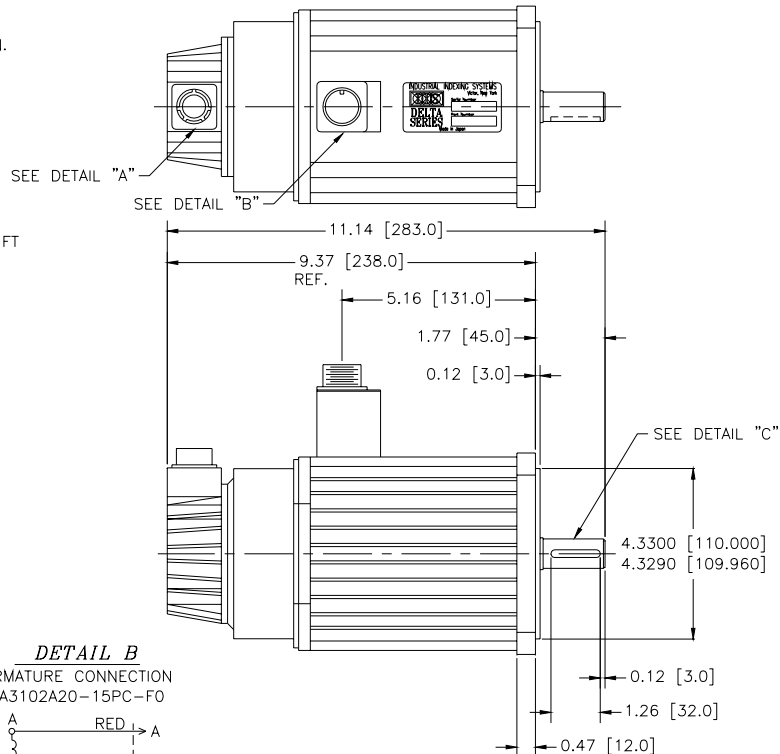
DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P



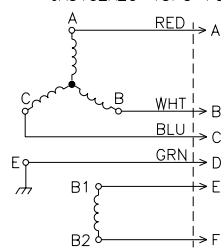
VIEW OF CONNECTOR

MATING SOCKET:
RESOLVER: JMSP1607F



DETAIL B

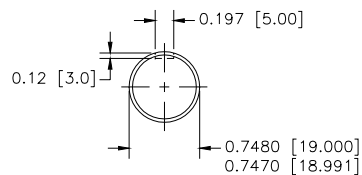
ARMATURE CONNECTION
JA3102A20-15PC-F0



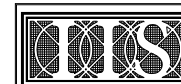
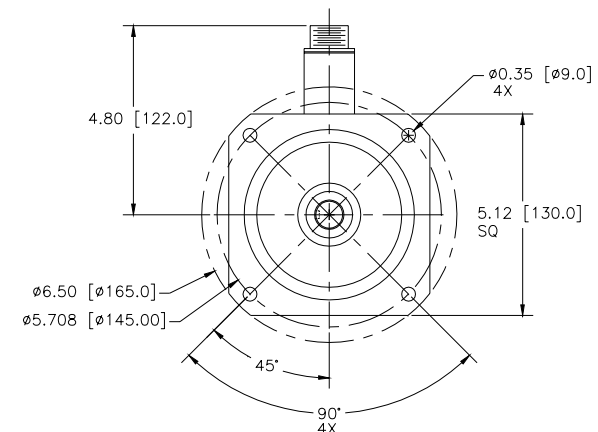
VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S

DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	E	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

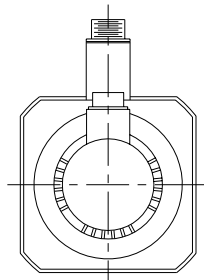
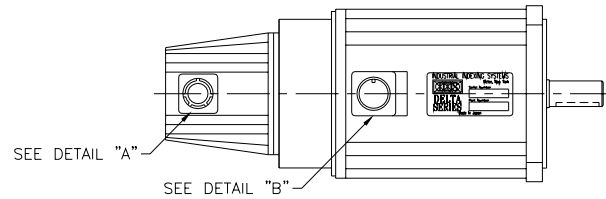
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

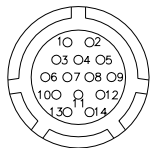
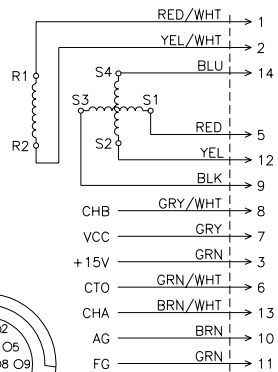
TITLE					
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-1800/30RB	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B	25APR96	1 OF 1	E
X.XXX ± 0.005			NTS		

NOTES:

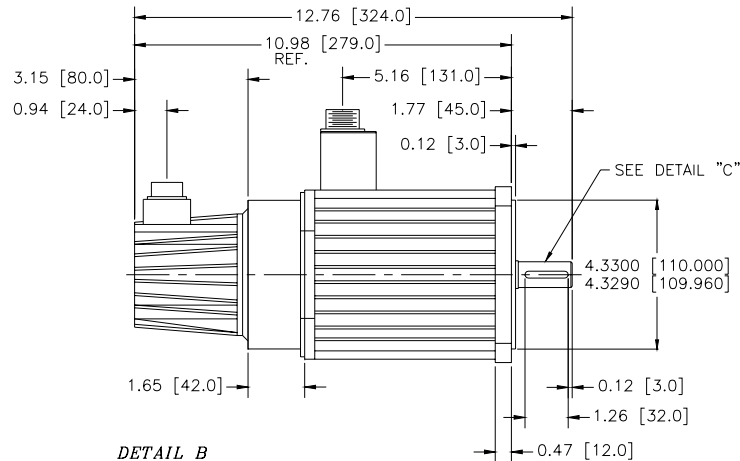
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 10.3 KG 22.7 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 539 N 121 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL 24 VDC 0.63 AMPS



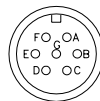
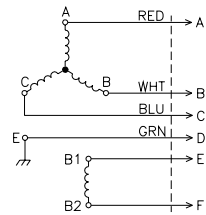
DETAIL A
ABSOLUTE
RESOLVER/ENCODER CONNECTION
JRC16WRQ-14P



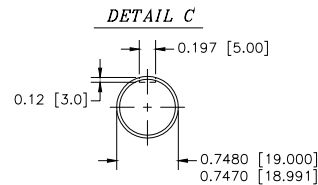
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JRC16WPQ-14S



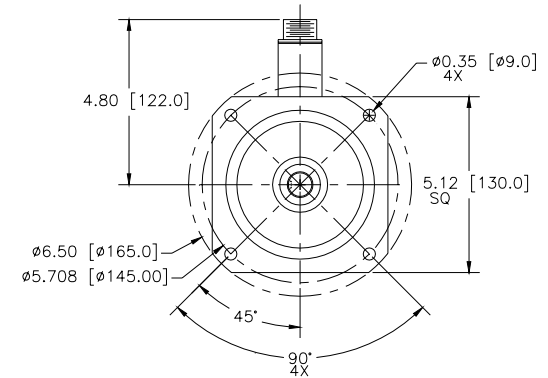
DETAIL B
ARMATURE CONNECTION
JA3102A20-15PC-F0



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C



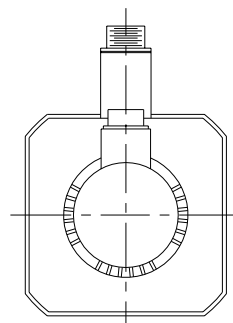
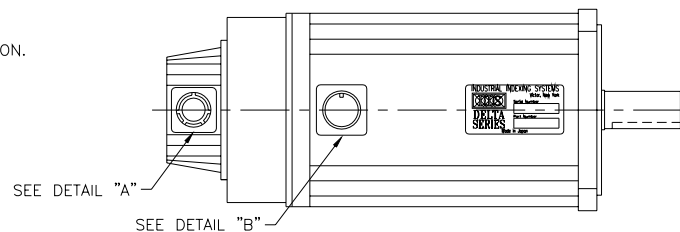
DATE	SYM	REVISION RECORD	DR	CK	CK
02FEB01	0	PER ECN 00-306	CWB	WS	
30MAR01	A	PER ECN 01-119	CWB		

 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-1800/30RAB	
TOLERANCES X.X± --- X.XX±0.01 X.XXX± 0.005		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
ANGULAR ± 0°30'		DATE 02FEB01		SCALE NTS	
REVISION A		REVISION A		REVISION A	

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

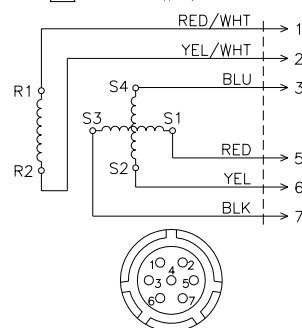
NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 13 KG 28.6 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS
- 6.) RADIAL LOAD 559 N 125 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 7.8 N-M 5.7 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.63 AMPS



DETAIL A

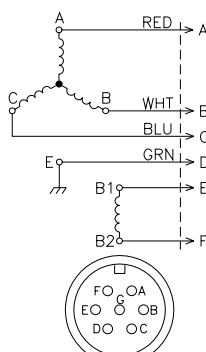
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR

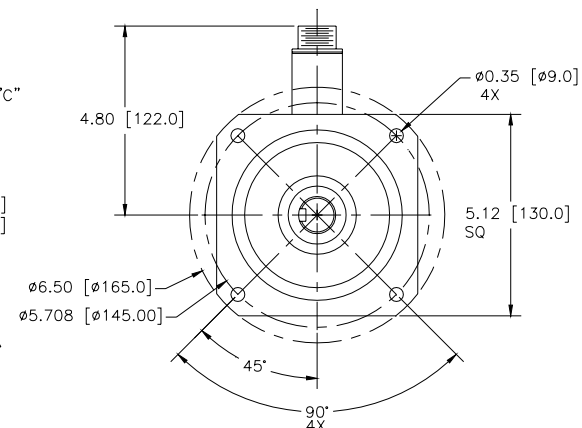
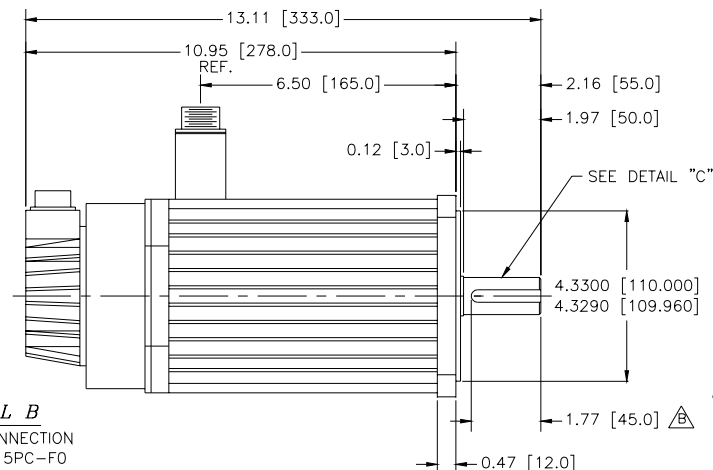
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B
ARMATURE CONNECTION
JA3102A20-15PC-F0

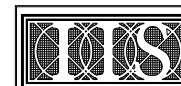
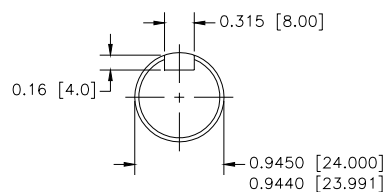


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-2400/30RB	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	B 07MAY97	NTS	1 OF 1	D
X.XXX ± 0.005					

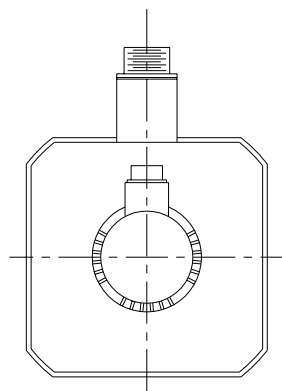
1.3783 [35.010]
1.3779 [35.000]

NOTES: 

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 31 KG 68.3 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 284 N 64 LBS
- 6.) RADIAL LOAD 1450 N 326 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE: 29.4 N-M 21.5 LB-FT
BRAKE ELECTRICAL: 24 VDC 0.92 AMPS

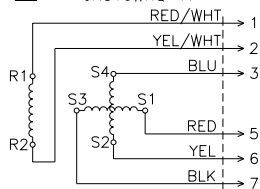
SEE DETAIL "B"

SEE DETAIL "A"



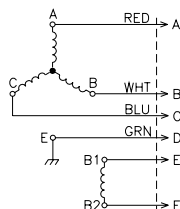
DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

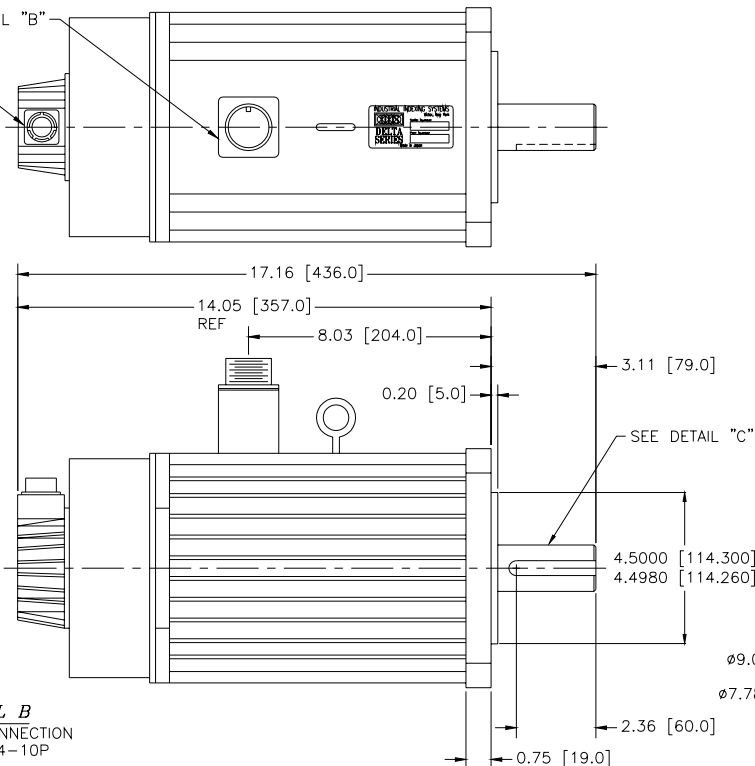


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

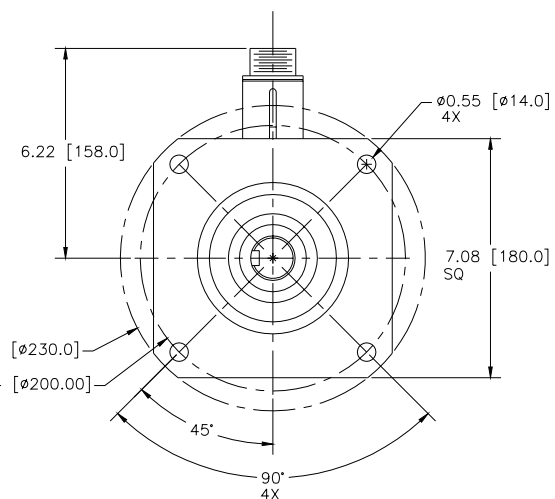
DETAIL B
ARMATURE CONNECTION
MS3102A24-10P



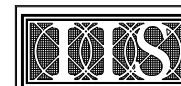
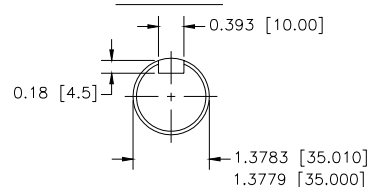
VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S



SEE DETAIL "C"



DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

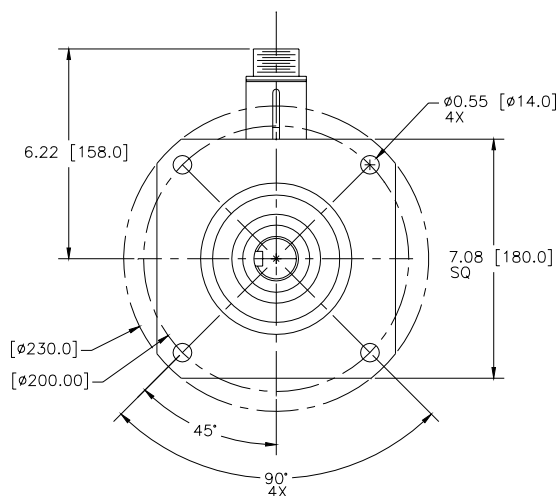
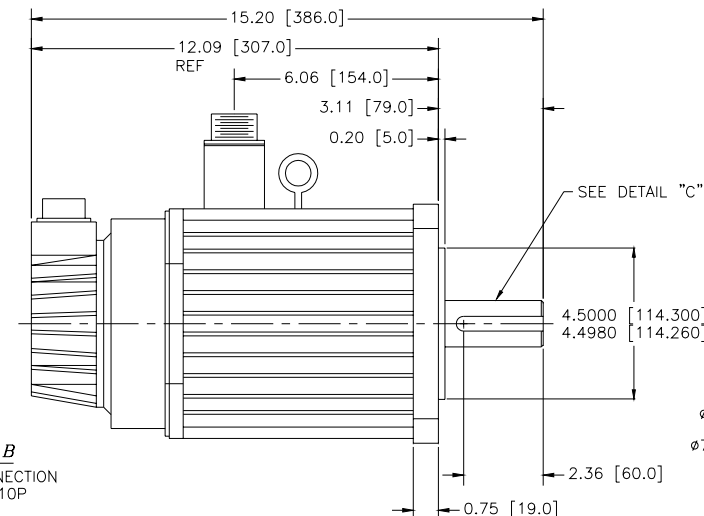
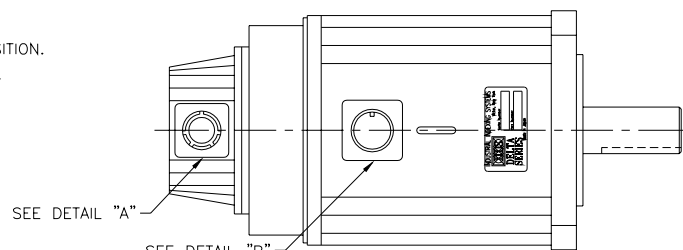
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE			
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± .001	ANGULAR ± 0° 30'	DATE 07MAY97	DRAWING NUMBER DBM-3700/15RB
X.XX ± 0.01		SCALE NTS	SHEET NO. 1 OF 1
X.XXX ± 0.005			REVISION D

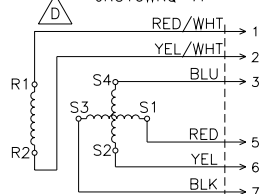
NOTES:  

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 24.0 KG 53.0 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 53 LBS
- 6.) RADIAL LOAD 1068 N 240 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 29.4 N-M 21.5 LB-FT
BRAKE ELECTRICAL 24 VDC 0.92 AMPS



DETAIL A

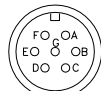
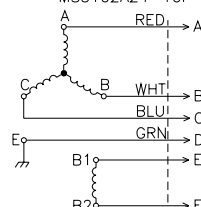
RESOLVER CONNECTION
JRC16WRQ-7P



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

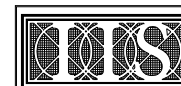
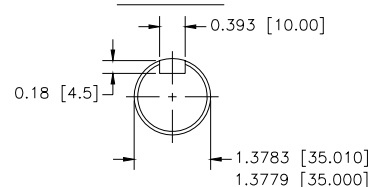
DETAIL B

ARMATURE CONNECTION
MS3102A24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

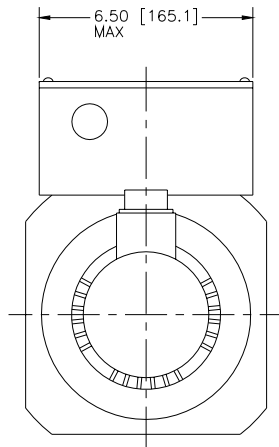
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE			
MOTOR, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-3700/30RB
X.X±---	ANGULAR	DATE	SHEET NO.
X.XX±0.01	± 0° 30'	25APR96	1 OF 1
X.XXX±0.005		SCALE NTS	REVISION F

NOTES: 

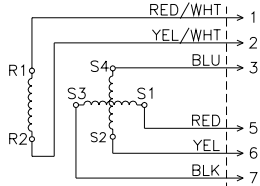
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 38 KG 84 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 284 N 63 LBS
- 6.) RADIAL LOAD 1520 N 341 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS. SEE DETAIL "A"
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 29.4 N-M 21.5 LB-FT
BRAKE ELECTRICAL 24 VDC 0.92 AMPS

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

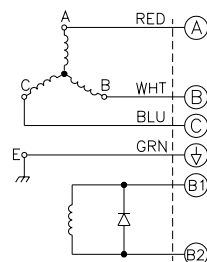


DETAIL A

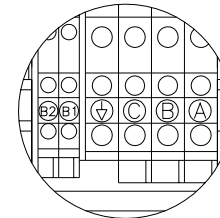
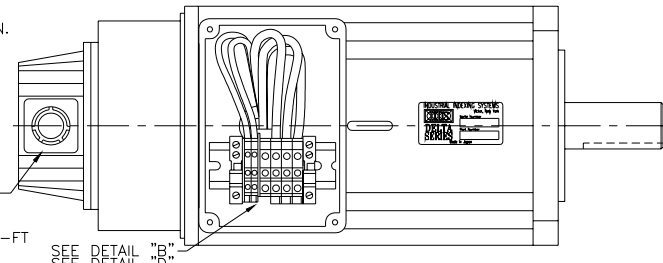
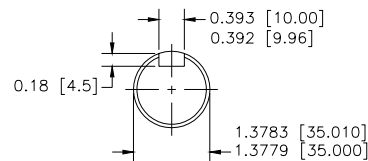
RESOLVER CONNECTION
JRC16WRQ-7P



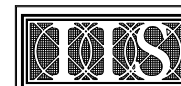
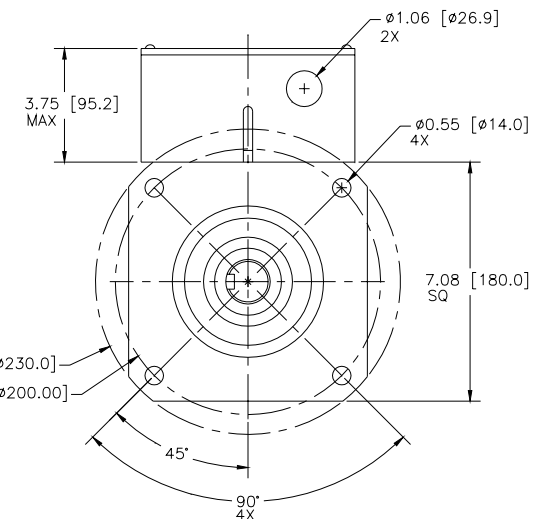
DETAIL B
ARMATURE CONNECTION



DETAIL C



DETAIL D



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-5000/15RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± .01	ANGULAR ± 0° 30'	DATE 06AUG96	SCALE NTS	REVISION D	

VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

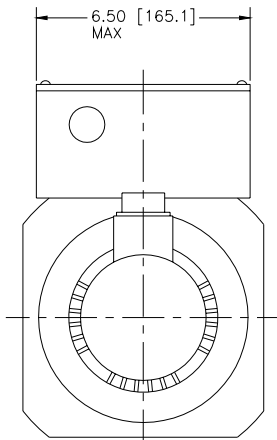
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 31 KG 69 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 52 LBS
- 6.) RADIAL LOAD 1147 N 257 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 29.4 N-M 21.5 LB-FT
BRAKE ELECTRICAL 24 VDC 0.92 AMPS

SEE DETAIL "A"

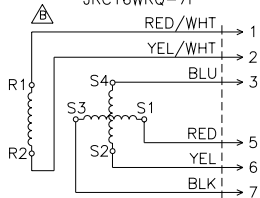
SEE DETAIL "B"
SEE DETAIL "D"

DETAIL D



DETAIL A

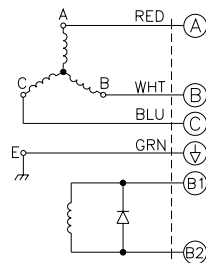
RESOLVER CONNECTION
JRC16WRQ-7P



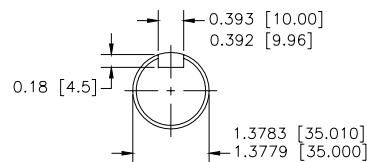
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

DETAIL B

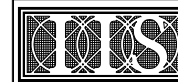
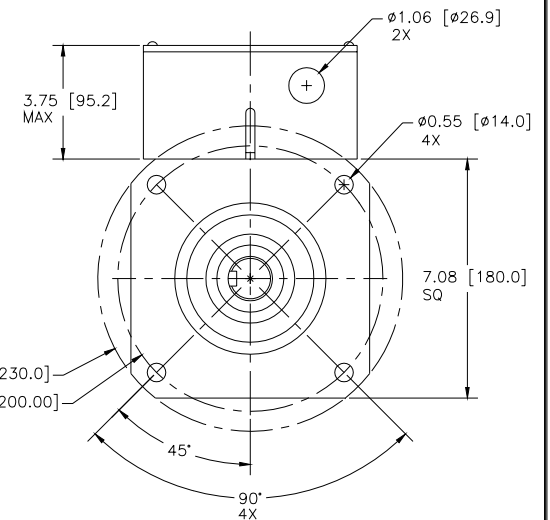
ARMATURE CONNECTION



DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE

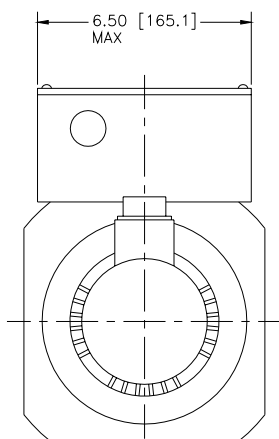
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-5500/30RB	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	06AUG96	NTS	1 OF 1	D
X.XXX ± 0.005					

NOTES:

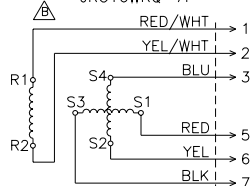
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 38 KG 84 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 235 N 52 LBS
- 6.) RADIAL LOAD 1205 N 270 LBS
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS. SEE DETAIL "A"
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 29.4 N-M 21.5 LB-FT
BRAKE ELECTRICAL 24 VDC 0.92 AMPS

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	D	PER ECN 00-246	CWB	EB	CDR

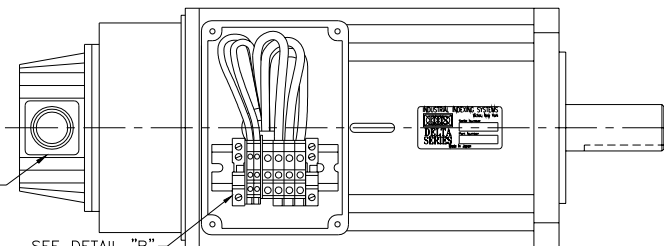


DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

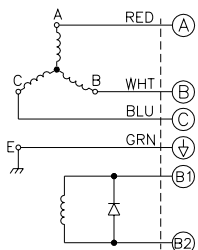


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

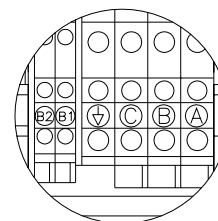
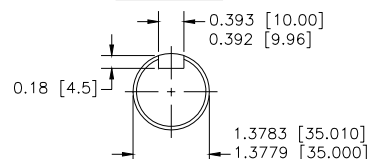


SEE DETAIL "B"
SEE DETAIL "D"

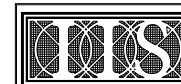
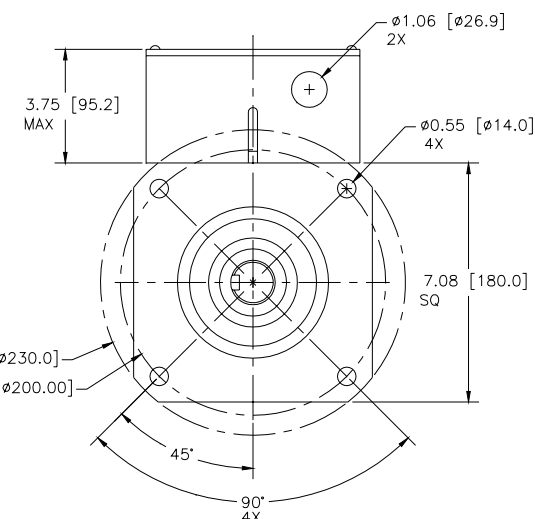
DETAIL B



DETAIL C



DETAIL D



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

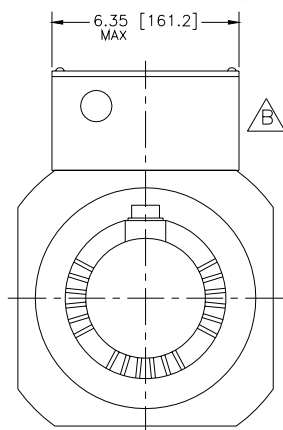
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE					
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-6500/30RB	
X.X ± --	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0° 30'	06AUG96	NTS	1 OF 1	D
X.XXX ± 0.005					

NOTES:

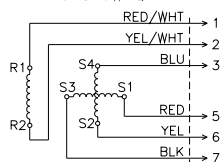
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 54 KG 119 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 294 N 66 LBS.
- 6.) RADIAL LOAD 1372 N 308 LBS.
- 7.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) BRAKE STATIC TORQUE 98 N-M
72 LB-FT

BRAKE ELECTRICAL 24 VDC 1.4 AMPS

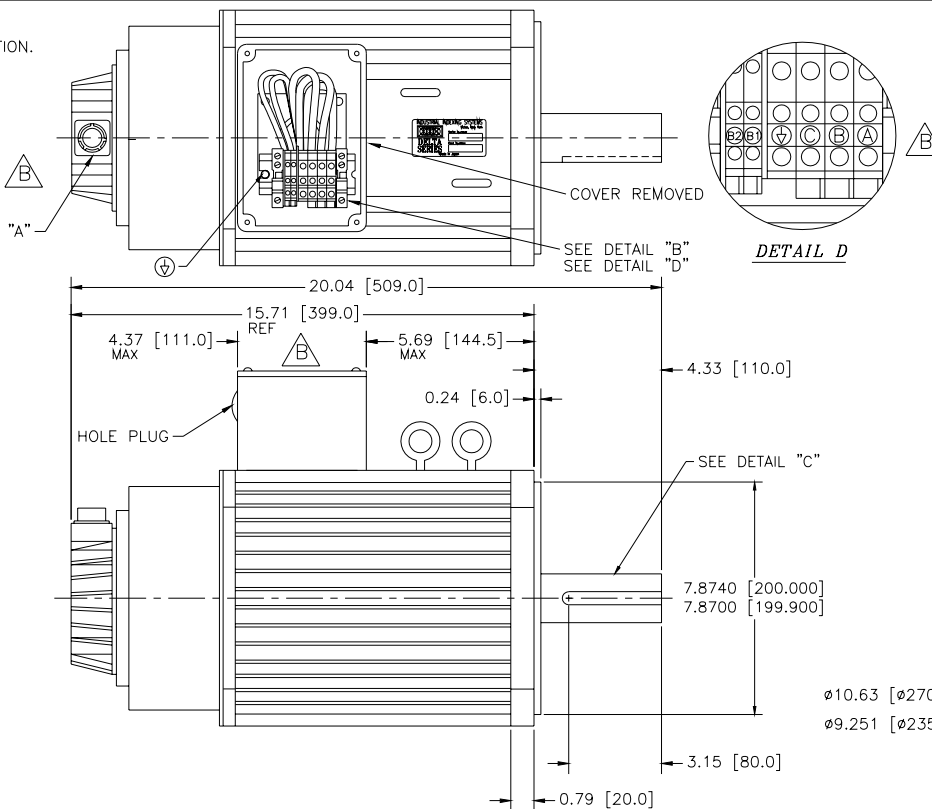


DETAIL A

RESOLVER CONNECTION
JRC16WRQ-7P

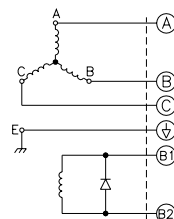


VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

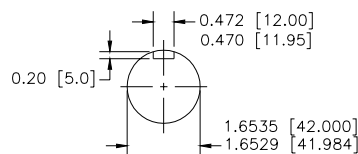


DETAIL B

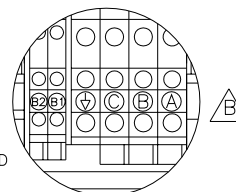
ARMATURE CONNECTION



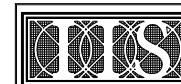
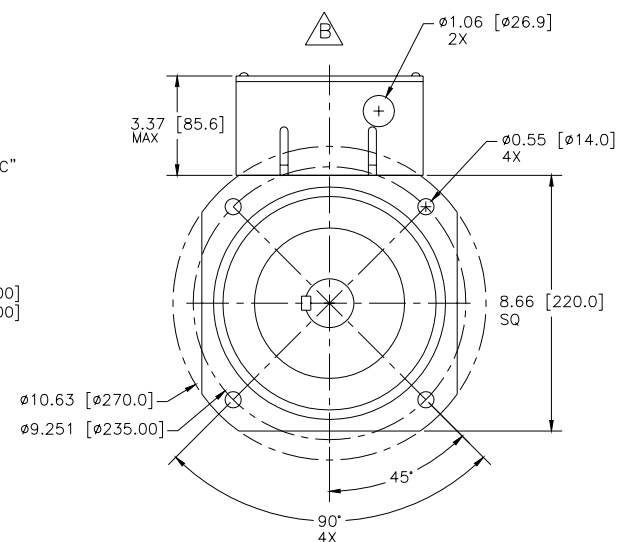
DETAIL C



DATE	SYM	REVISION RECORD	DR	CK	CK
28SEP00	C	PER ECN 00-246	CWB	EB	CDR



DETAIL D



INDUSTRIAL INDEXING SYSTEMS, Inc.

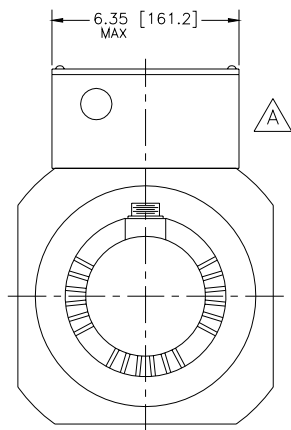
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE. AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

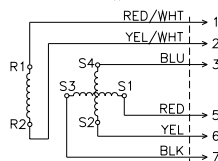
TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-7500/20RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± ---	ANGULAR	DATE 14AUG97	SCALE NTS	REVISION C	
X.XX ± 0.01	± 0° 30'				
X.XXX ± 0.005					

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 73 KG 161 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 294 N 66 LBS.
- 6.) RADIAL LOAD 1470 N 330 LBS.
- 7.) BRAKE STATIC TORQUE 98 N-M
72 LB-FT
BRAKE ELECTRICAL 24 VDC 1.4 AMPS
- 8.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 9.) IP-44 SEALING.

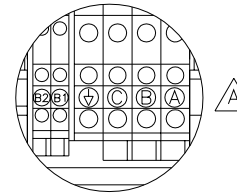
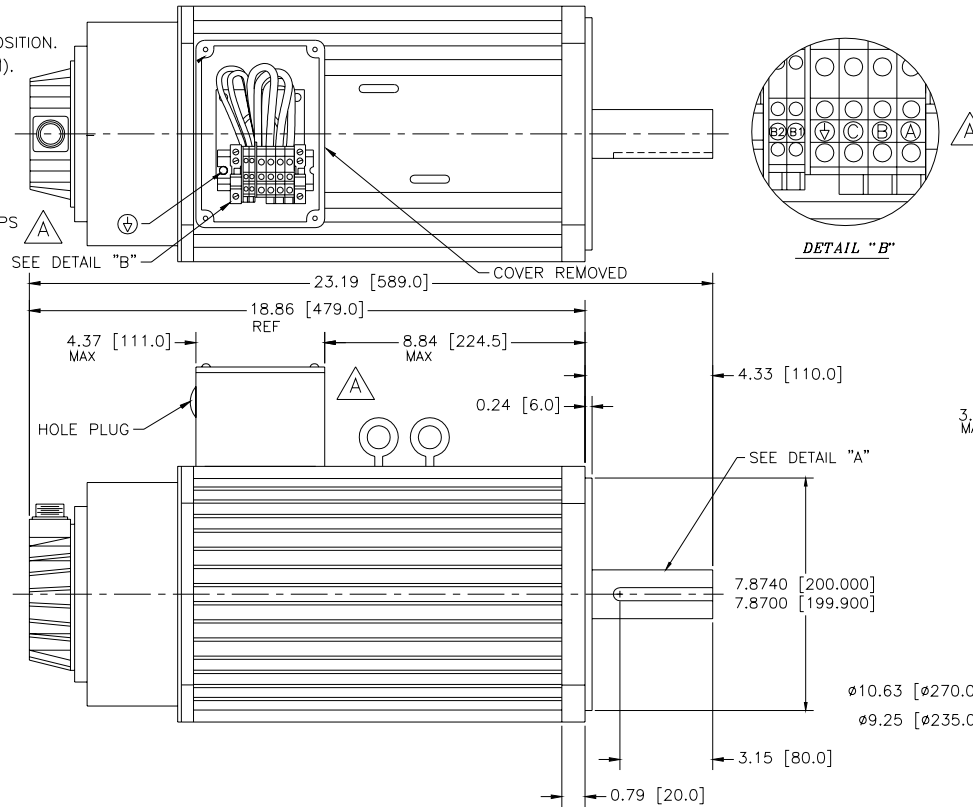
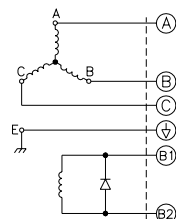


RESOLVER CONNECTION
JRC16WRQ-7P

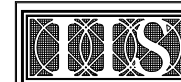
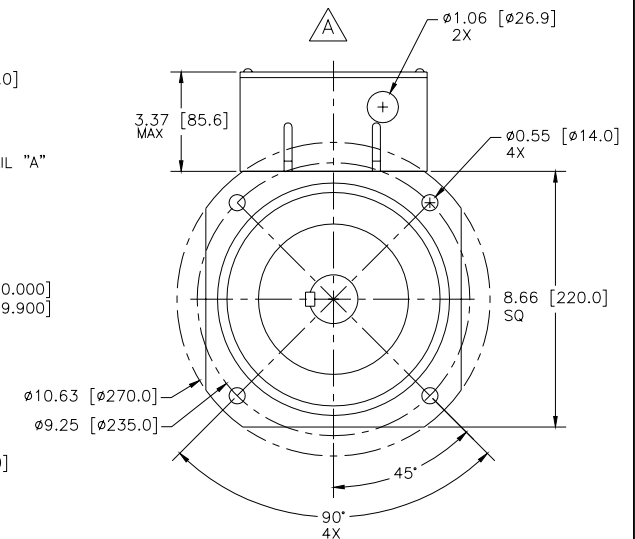


TOP VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: JMSP1607F

ARMATURE CONNECTION



DETAIL "B"



INDUSTRIAL INDEXING SYSTEMS, Inc.

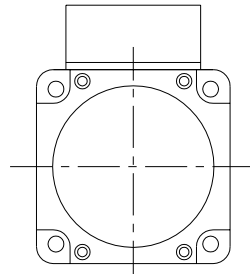
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

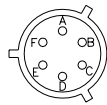
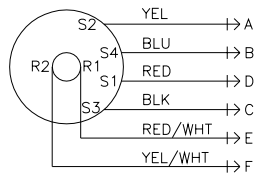
TITLE			
MOTOR, BRAKE, BRUSHLESS, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± .005	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0° 30'	18AUG98	NTS
X.XXX ± 0.005			
DRAWING NUMBER		SHEET NO.	
DBM-10000/20RB		1 OF 1	
REVISION		A	

NOTES:

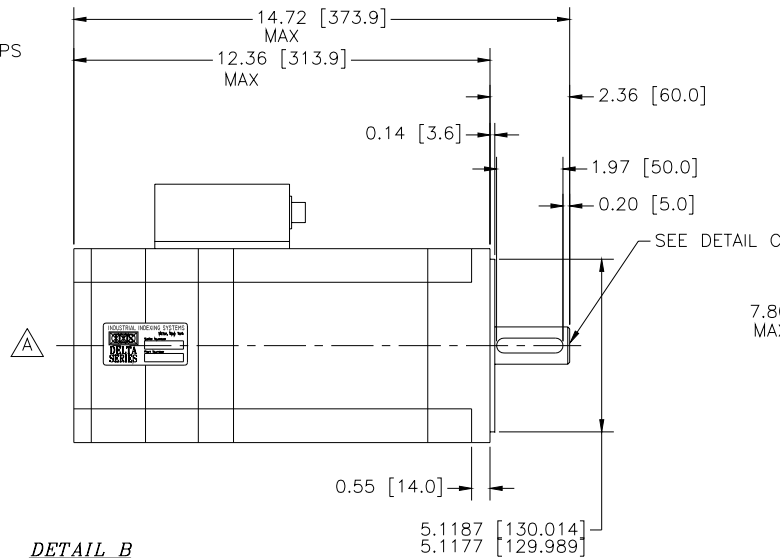
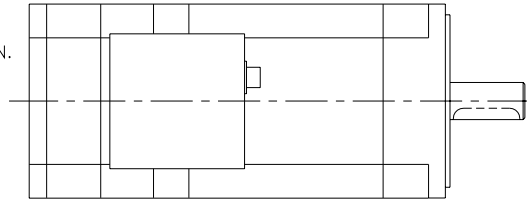
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT [28 KG] 61 LBS
- 4.) IP-65 SEALING.
- 5.) RESOLVER 2X 24000 PPR.
QTY 2 ZERO MARKERS.
- 6.) SHAFT SEAL STANDARD.
- 7.) BRAKE STATIC TORQUE 22.5 N-M
16.7 LB-FT
BRAKE ELECTRICAL 24 VDC 1.3 AMPS



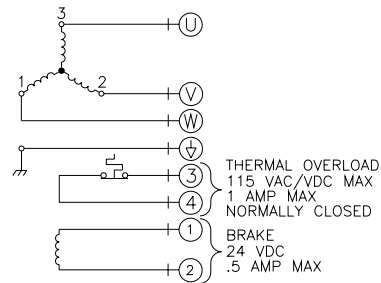
DETAIL A
RESOLVER CONNECTION



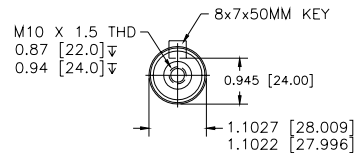
TOP VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: MS3116F10-6S



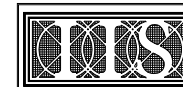
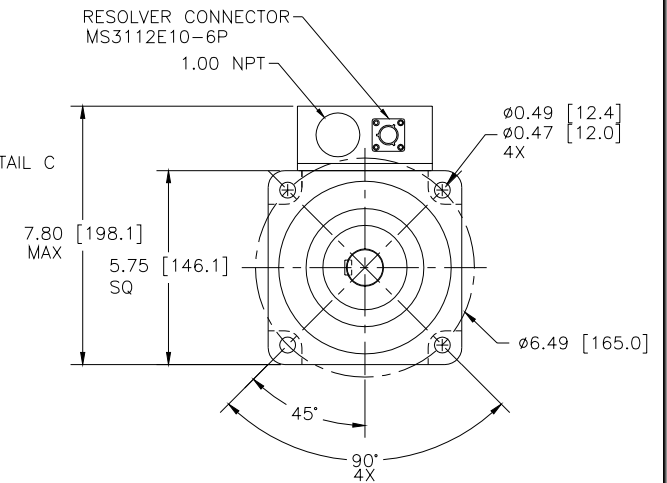
DETAIL B
ARMATURE CONNECTION



DETAIL C
MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
16JUN99	0	PER ECN 98-122	CWB	TO	
23JUL99	A	PER ECN 99-254	CWB	TO	
07DEC99	B	PER ECN 99-414	CWB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

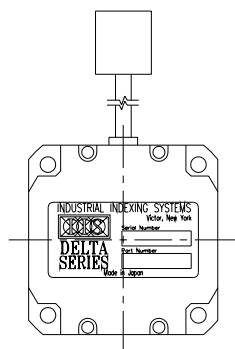
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE MOTOR, BRAKE, BRUSHLESS, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-B3000/30RB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± .005	ANGULAR ± 0° 30'	DATE 16JUN99	SCALE NTS	REVISION B	

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 4.2 KG 9.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS.
- 6.) RADIAL LOAD 343 N 77 LBS.
- 7.) ABSOLUTE ENCODER
- 8.) IP-44 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12" $\pm$ 2" [305 $\pm$ 50].
- 11.) BRAKE STATIC TORQUE 2.55 N-M 1.88 LBS-FT
BRAKE ELECTRICAL 24 VDC 0.38 A.



DETAIL A

ABSOLUTE ENCODER CONNECTION

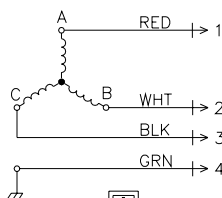
PIN#	SIGNAL	COLOR
1	NC	---
2	+5V	RED
3	GND	BLK
4	NC	---
5	VB	WHT
6	GND	BLK
7	SO/RQ	BLU
8	SO/RQ	GRN
9	SHLD	



VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V

DETAIL B

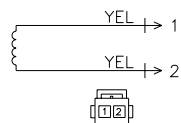
ARMATURE CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V

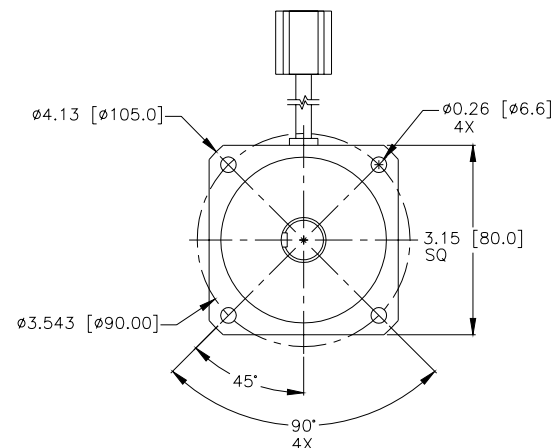
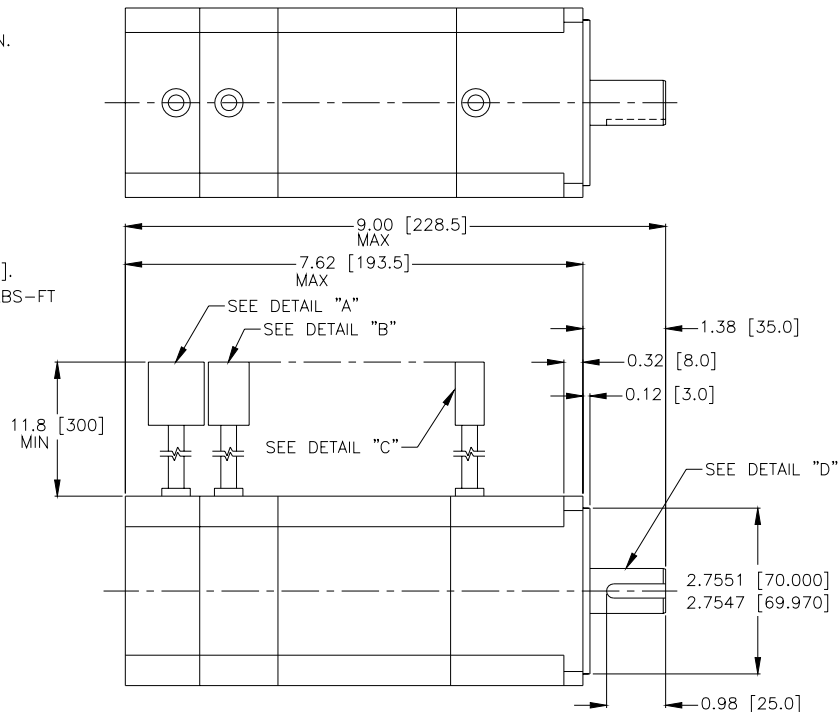
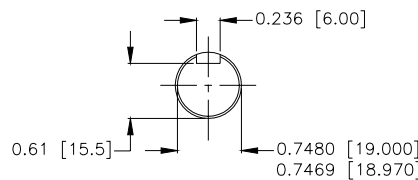
DETAIL C

BRAKE CONNECTION

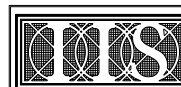


VIEW OF CONNECTOR
MATING SOCKET:
BRAKE: YLP-02V

DETAIL D



DATE	SYM	REVISION RECORD	DR	CK	CK
02FEB01	0	PER ECN 00-306	CWB	WS	
30MAR01	A	PER ECN 01-118	CWB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

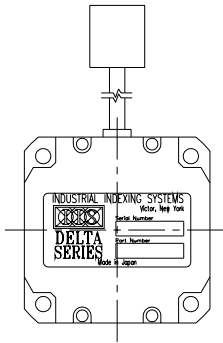
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

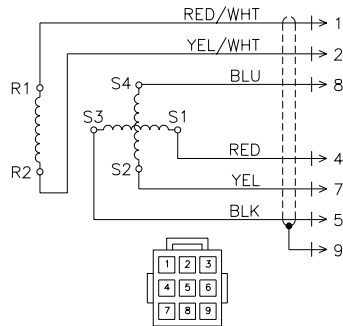
TITLE MOTOR, BRAKE, DELTA SERIES, ABSOLUTE					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER DBM-D800/30EAB	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		SHEET NO. 1 OF 1	
X.X ± ---	ANGULAR ± 0°30'	DATE 02FEB01		REVISION A	
X.XX ± 0.01		SCALE NTS			
X.XXX ± 0.005					

NOTES:

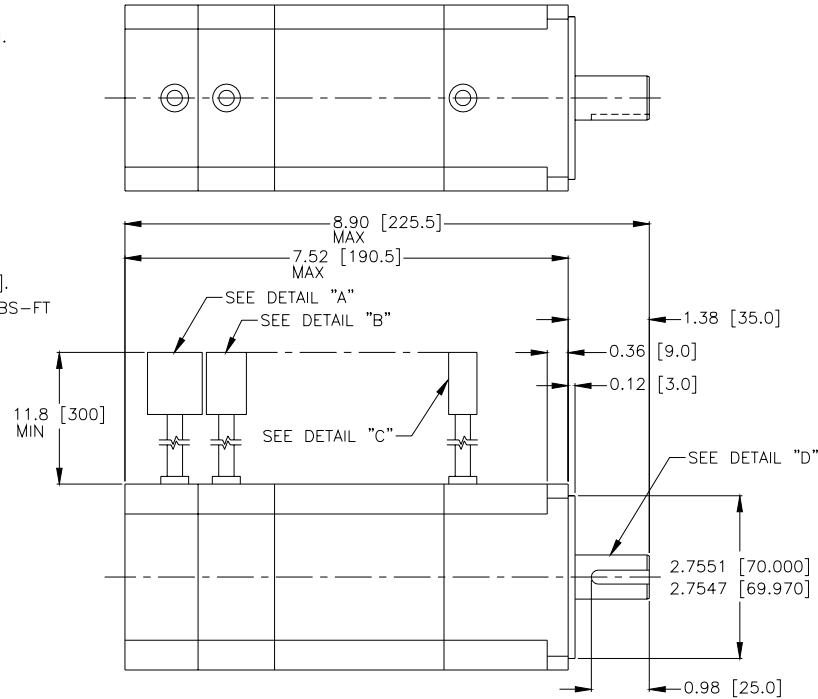
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 4.2 KG 9.2 LBS.
- 4.) MOTOR SHAFT SEAL IS STANDARD.
- 5.) THRUST LOAD 98 N 22 LBS.
- 6.) RADIAL LOAD 343 N 77 LBS.
- 7.) RESOLVER 2X 24000 PPR
QTY 2 ZERO MARKERS.
- 8.) IP-44 SEALING.
- 9.) WIRE LEAD OPENINGS ARE UNSEALED.
- 10.) FLYING LEAD LENGTH 12" $\pm$ 2" [305 $\pm$ 50].
- 11.) BRAKE STATIC TORQUE 2.55 N-M 1.88 LBS-FT
BRAKE ELECTRICAL 24 VDC 0.38 A.



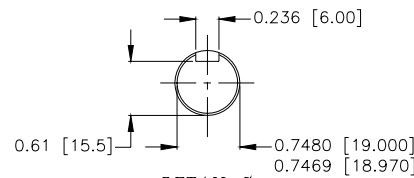
DETAIL A
RESOLVER CONNECTION



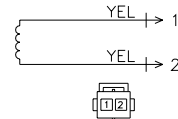
VIEW OF CONNECTOR
MATING SOCKET:
RESOLVER: YLP-09V



DETAIL D

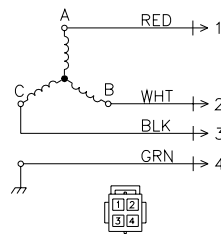


DETAIL C
BRAKE CONNECTION

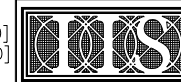
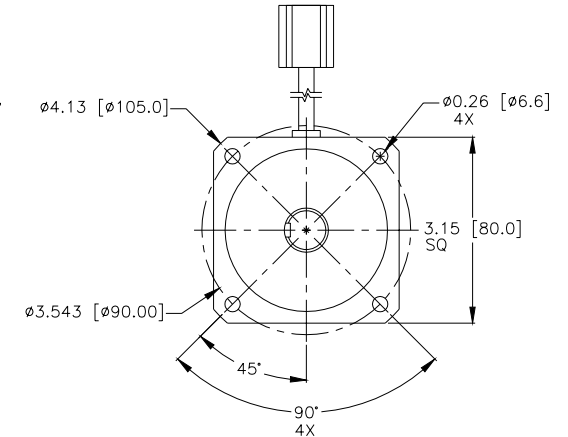


VIEW OF CONNECTOR
MATING SOCKET:
BRAKE: YLP-02V

DETAIL B
ARMATURE CONNECTION



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: YLP-04V



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-D800/30RB
X.X $\pm$ --	ANGULAR	DATE	SCALE
X.XX $\pm$ 0.01	$\pm$ 0° 30'	14JAN00	NTS
X.XXX $\pm$ 0.005			
		SHEET NO.	REVISION
		1 OF 1	A

A.8 ENCODER MOTOR DIMENSIONS

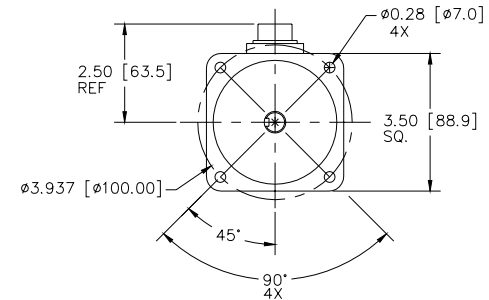
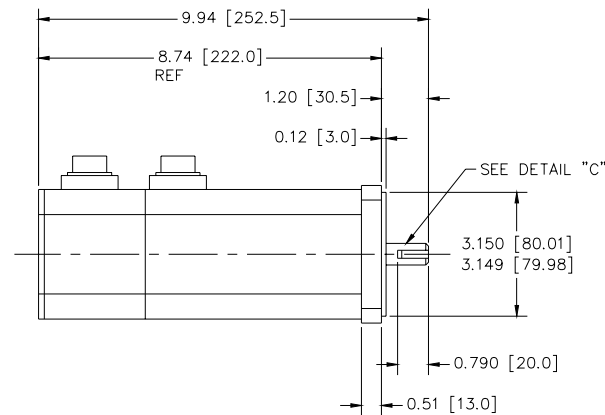
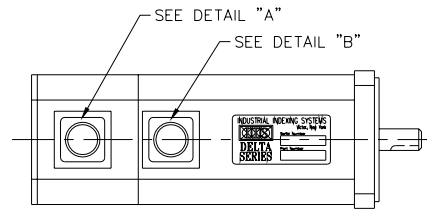
DRAWING NUMBER

DESCRIPTION

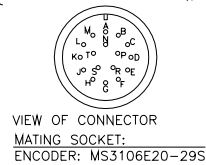
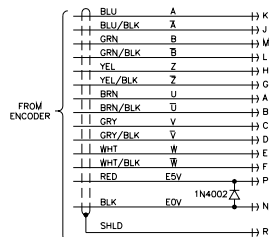
DBM-480/15E	Brushless Delta Series Motor
DBM-B380/30E	Brushless Delta Series Motor
DBM-B630/30E	Brushless Delta Series Motor
DBM-B800/30E	Brushless Delta Series Motor
DBM-B1060/30E	Brushless Delta Series Motor
DBM-B1600/30E	Brushless Delta Series Motor
DBM-B1900/30E	Brushless Delta Series Motor
DBM-B3000/30E	Brushless Delta Series Motor
DBM-B4400/30E	Brushless Delta Series Motor
DBM-B5600/30E	Brushless Delta Series Motor
DBM-C740/15E	Brushless Delta Series Motor
DBM85-E400/20E	Brushless Delta Series Motor
DBM85-E525/30E	Brushless Delta Series Motor
DBM85-E750/20E	Brushless Delta Series Motor
DBM85-E850/30E	Brushless Delta Series Motor
DBM85-E1000/20E	Brushless Delta Series Motor
DBM85-E1200/30E	Brushless Delta Series Motor
DBM120-E750/20E	Brushless Delta Series Motor
DBM120-E1000/20E	Brushless Delta Series Motor
DBM120-E1000H/20E	Brushless Delta Series Motor
DBM120-E1500/20E	Brushless Delta Series Motor
DBM120-E1500H/20E	Brushless Delta Series Motor
DBM120-E2200/20E	Brushless Delta Series Motor
DBM120-E2200H/20E	Brushless Delta Series Motor
DBM120-E3000/20E	Brushless Delta Series Motor
DBM120-E3000H/20E	Brushless Delta Series Motor
DBM120-E4000/20E	Brushless Delta Series Motor
DBM120-E4000H/20E	Brushless Delta Series Motor

NOTES:

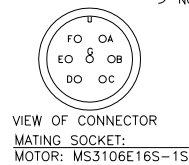
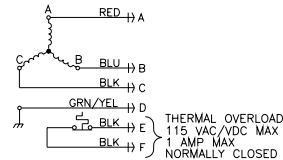
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) CERTIFIED TO MEET IP65 SEALING.
- 4.) MOTOR WEIGHT: 5.4 KG 12.0 LBS
- 5.) MOTOR SHAFT SEAL IS STANDARD.
- 6.) MOTOR FINISH: FDA WHITE COATING.
- 7.) MOTOR OUTPUT SHAFT: STAINLESS STEEL.
- 8.) THRUST LOAD: 111 N 25 LBS.
- 9.) RADIAL LOAD: 178 N 40 LBS.



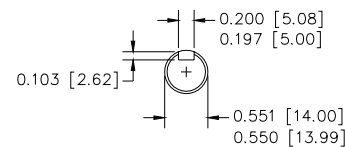
DETAIL A
ENCODER CONNECTION
MS3102E20-29P



DETAIL B
ARMATURE CONNECTION
MS3102E16S-1P



DETAIL C
MOTOR SHAFT DETAIL

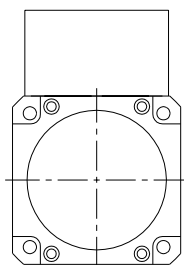


DATE	SYM	REVISION RECORD	DR	CK	CK
11SEP01	0	PER ECN 01-302	CWB		

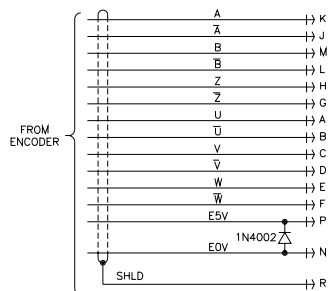
		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
MOTOR, DELTA SERIES, CUSTOM					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS		DBM-480/15E	
X.X ± 0.01	ANGULAR ± 0°30'	DATE 11SEP01	SCALE ---	SHEET NO. 1 OF 1	REVISION 0

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 4.1 KG 9 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

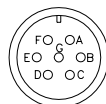
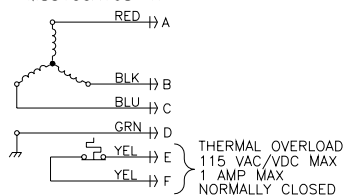


DETAIL A
ENCODER CONNECTION
MS3102E20-29P

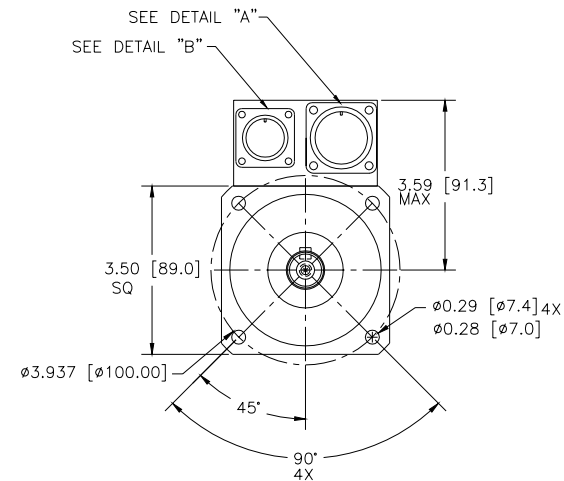
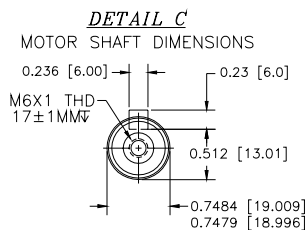
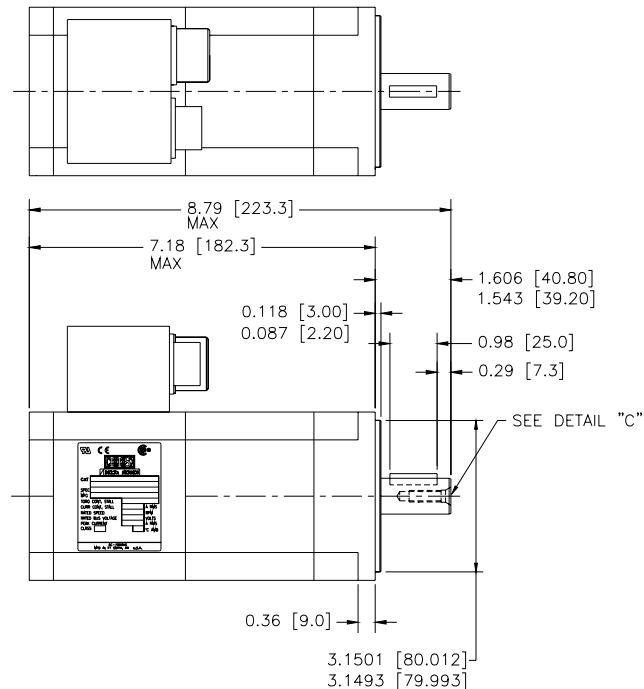


VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

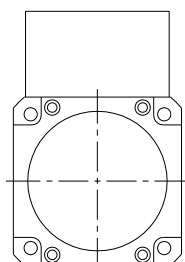


	INDUSTRIAL INDEXING SYSTEMS, Inc.		
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWING NUMBER	
TOLERANCES		DBM-B380/30E	
X.X ± ---	ANGULAR	AutoCAD FILE LOCATION	REVISION
X.XX ± 0.01	± 0°30'	Q:\CURRENT DWGS	1 OF 1
X.XXX ± 0.005		DATE	A
		31DEC98	
		SCALE	
		NTS	
		SHEET NO.	
		1 OF 1	

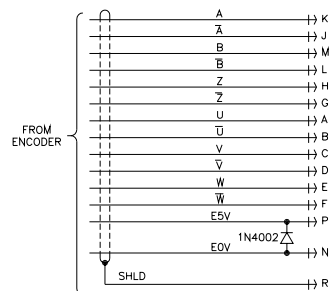
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	A	PER ECN 00-248	CWB	EB	CDR

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 6.4 KG 14 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) ENCODER 2048 LINE COUNT 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

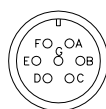
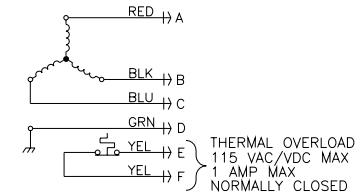


DETAIL A
ENCODER CONNECTION
MS3102E20-29P

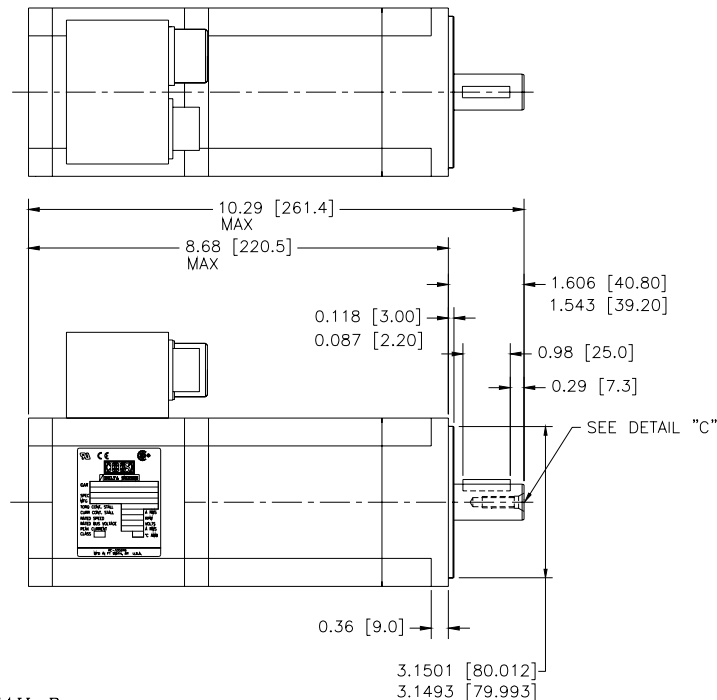


VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

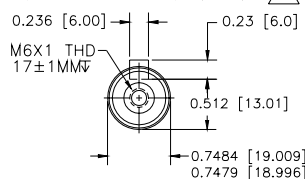
DETAIL B
ARMATURE CONNECTION
MS3100A16S-1P



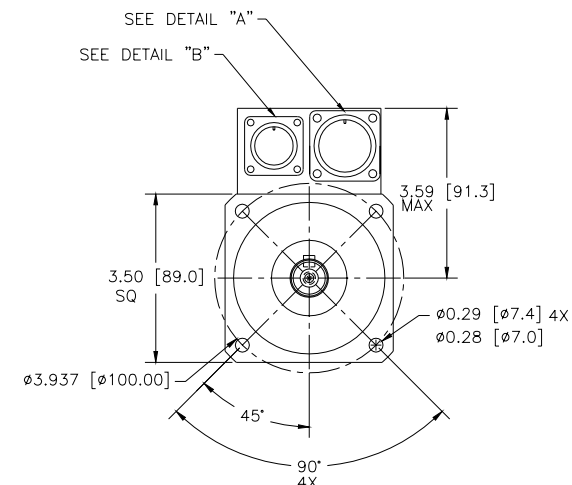
VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S



DETAIL C
MOTOR SHAFT DIMENSIONS

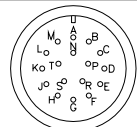


DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR

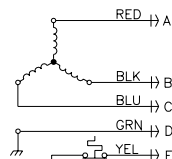
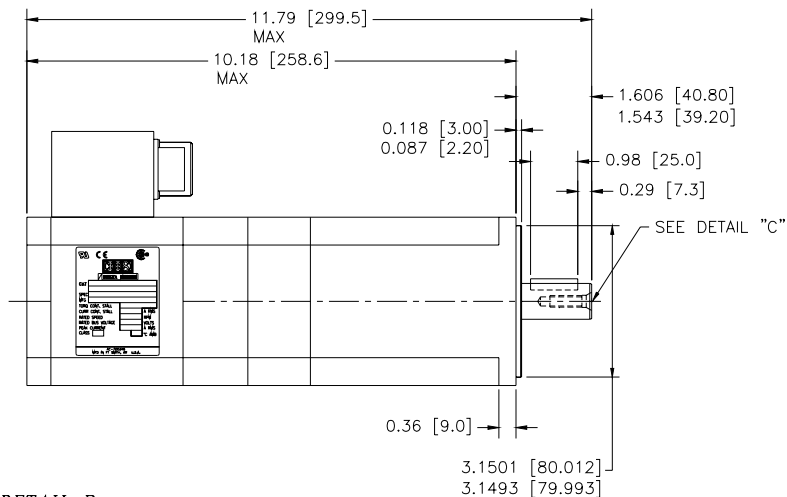


	INDUSTRIAL INDEXING SYSTEMS, Inc.		
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-B630/30E
X.X ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0°30'	B	23OCT98
X.XXX ± 0.005			NTS
		SHEET NO.	REVISION
		1 OF 1	B

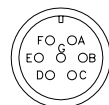
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 8.6 KG 19 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 289 N 64 LBS.
- 6.) RADIAL LOAD 267 N 60 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.



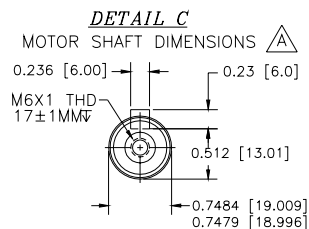
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S



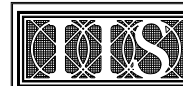
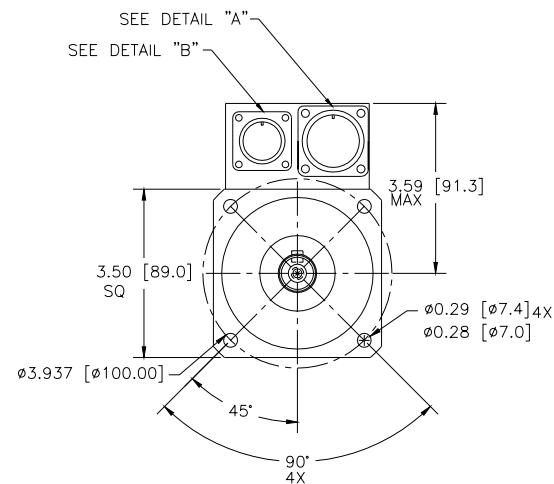
THERMAL OVERLOAD
115 VAC/VDC MAX
1 AMP MAX
NORMALLY CLOSED



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S



DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

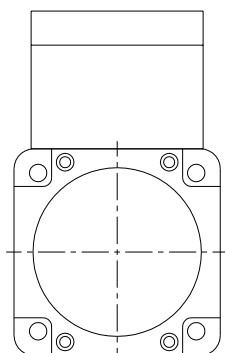
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE										
MOTOR, DELTA SERIES										
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)				DRAWN BY BOWMAN			DRAWING NUMBER			
TOLERANCES				AutoCAD FILE LOCATION			DBM-B800/30E			
X.X. — — — X.XX ± 0.01 X.XXX ± 0.005				Q: CURRENT DWGS						
ANGULAR		± 0°30'		DATE		SCALE		SHEET NO.		REVISION
		B		13MAR98		NTS		1 OF 1		B

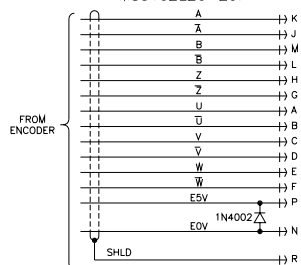
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 13.6 KG 30 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 653 N 146 LBS.
- 6.) RADIAL LOAD 712 N 160 LBS
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR



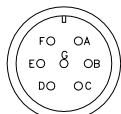
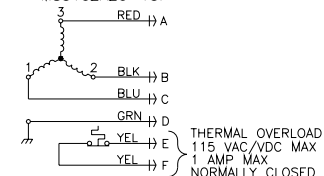
DETAIL A
ENCODER CONNECTION
MS3102E20-29P



VIEW OF CONNECTOR

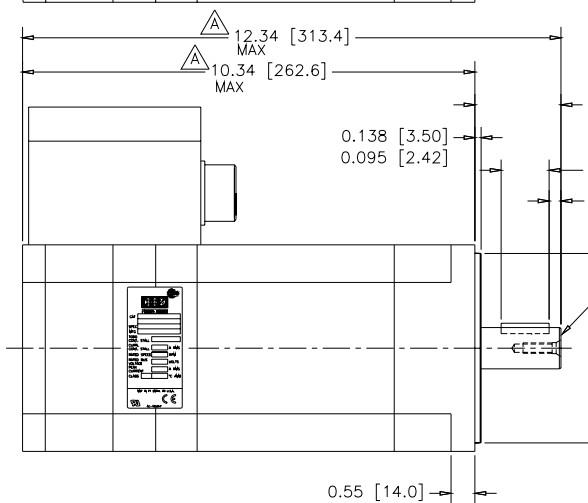
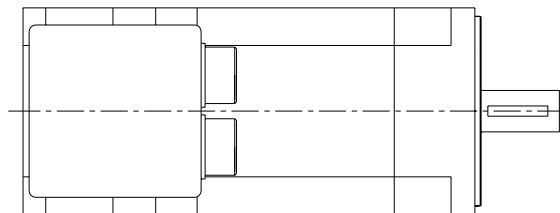
MATING SOCKET:
ENCODER: MS3106A20-29S

DETAIL B
ARMATURE CONNECTION
MS3102A20-15P

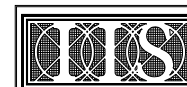
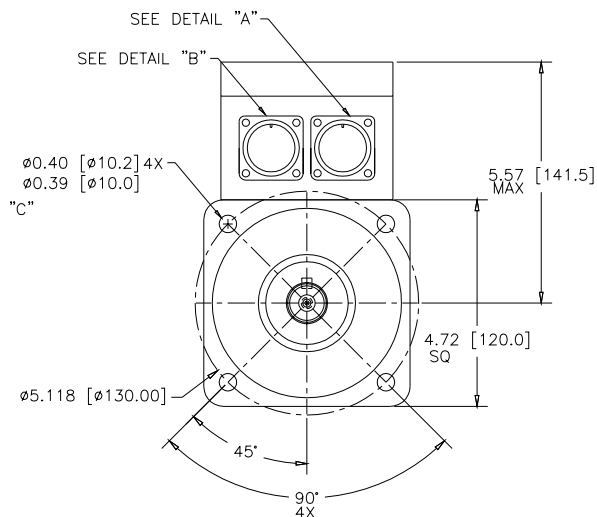
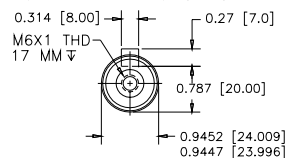


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S



DETAIL C
MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

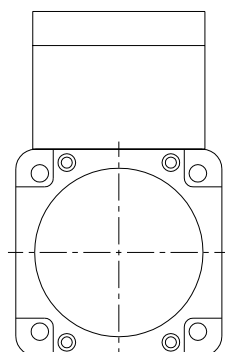
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-B1060/30E	
TOLERANCES	AutocAD FILE LOCATION Q:\CURRENT DWGS	SHEET NO. 1 OF 1	
X.X ± ---	ANGULAR ± 0°30'	SCALE NTS	REVISION B
X.XX ± 0.01	DATE 30DEC98		
X.XXX ± 0.005			

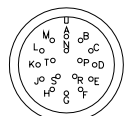
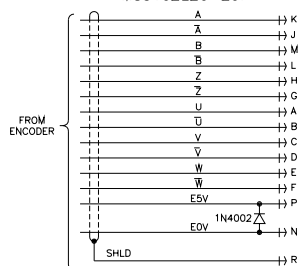
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 18.6 KG 41 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 653 N 146 LBS.
- 6.) RADIAL LOAD 712 N 160 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

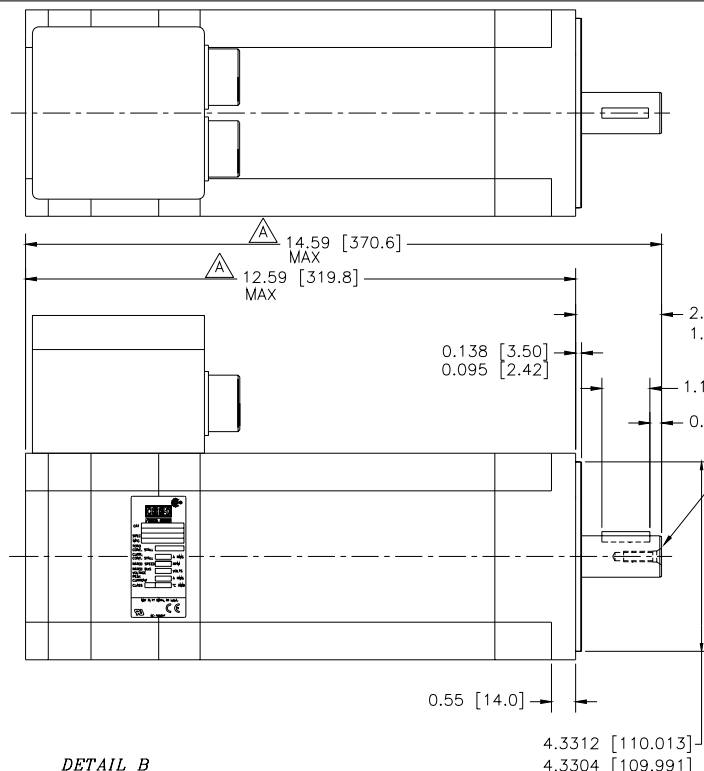
DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR



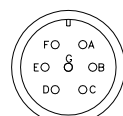
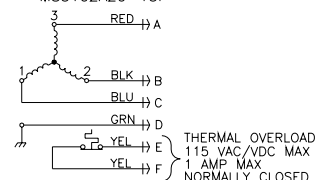
DETAIL A
ENCODER CONNECTION
MS3102E20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

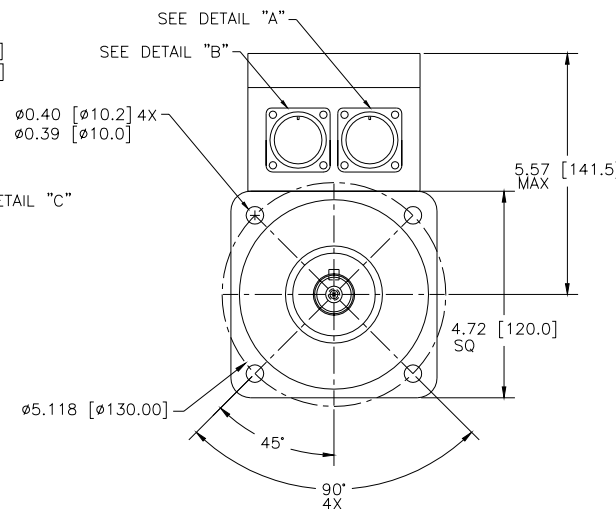
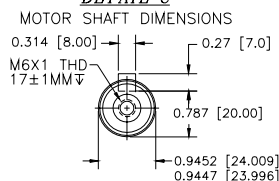


DETAIL B
ARMATURE CONNECTION
MS3102A20-15P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A20-15S

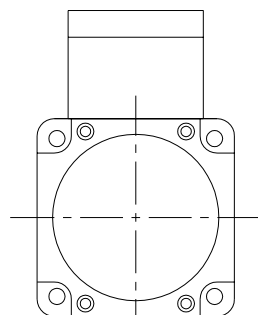
DETAIL C



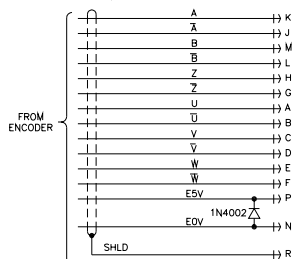
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	DBM-B1600/30E	
X.X ± .01	ANGULAR ± 0°30'	DATE 30DEC98	SCALE NTS
X.XXX ± 0.005		SHEET NO. 1 OF 1	REVISION B

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 15 KG 33 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

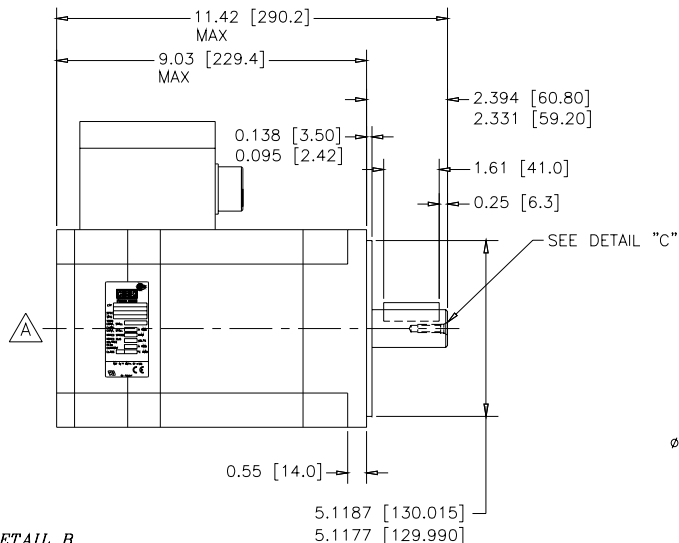
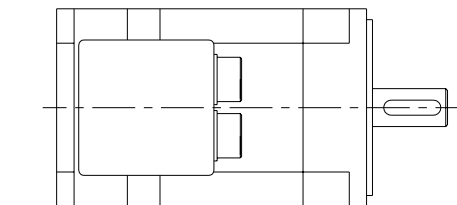


DETAIL A
ENCODER CONNECTION
MS3102E20-29P

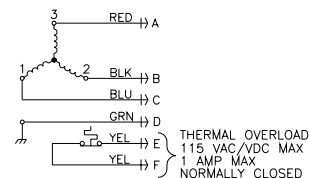


VIEW OF CONNECTOR

MATING SOCKET:
ENCODER: MS3106A20-29S

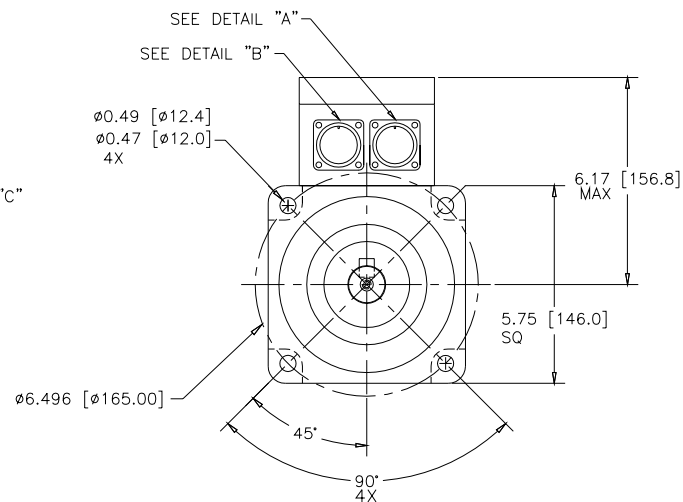
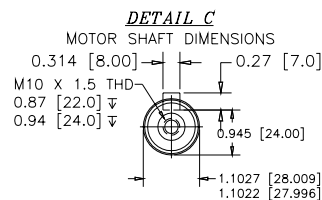


DETAIL B
ARMATURE CONNECTION
MS3102A20-15P

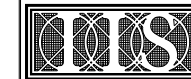


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A20-15S



SEE DETAIL "A"
SEE DETAIL "B"



INDUSTRIAL INDEXING SYSTEMS, Inc.

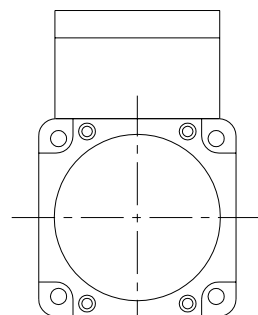
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

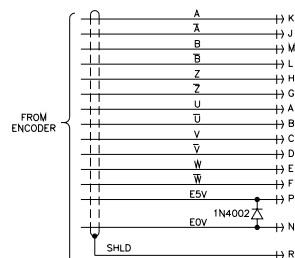
TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-B1900/30E	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	SCALE	SHEET NO.
X.X ± .01	ANGULAR ± 0°30'	DATE 11JAN99	NTS
X.XXX ± 0.005		SCALE	REVISION B

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 23.6 KG 52 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.



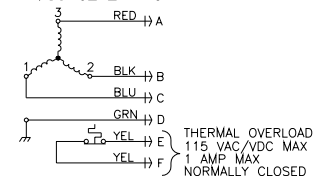
DETAIL A
ENCODER CONNECTION
MS3102E20-29P



VIEW OF CONNECTOR

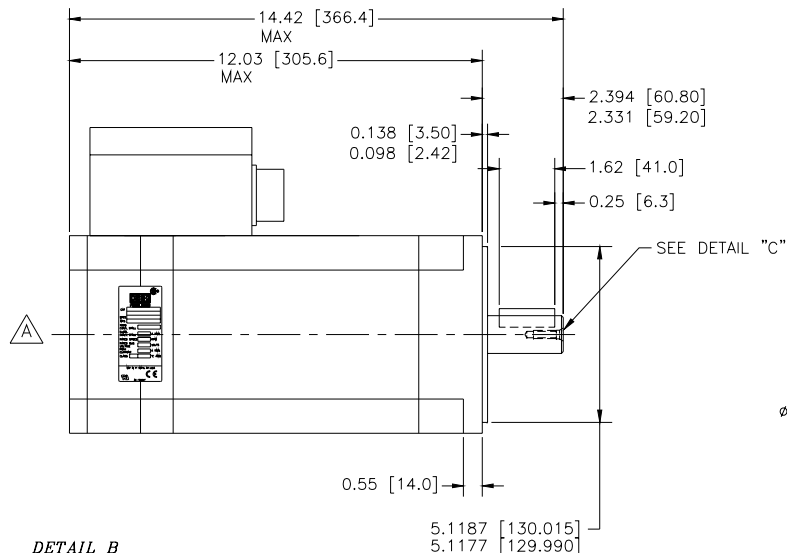
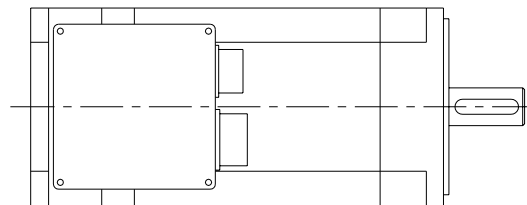
MATING SOCKET:
ENCODER: MS3106A20-29S

DETAIL B
ARMATURE CONNECTION
MS3102A24-10P

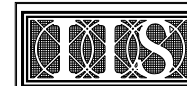
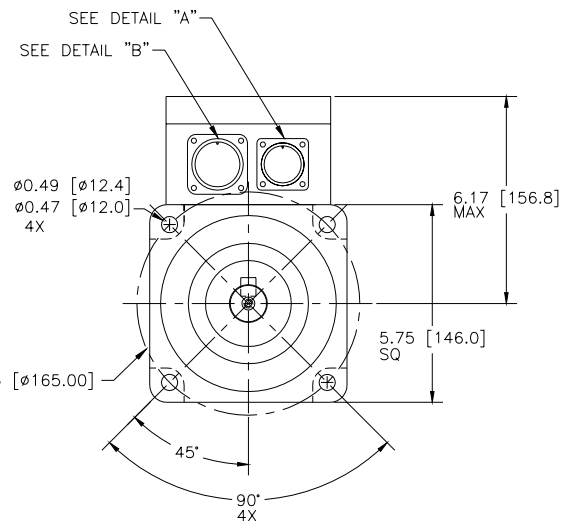
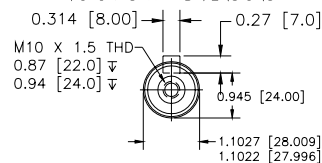


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106A24-10S



DETAIL C
MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

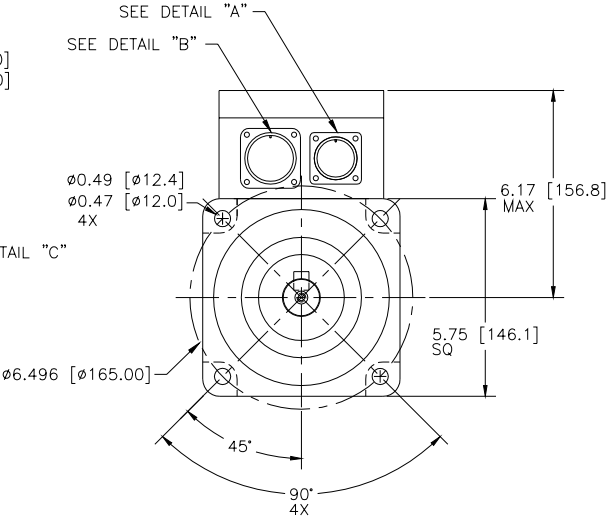
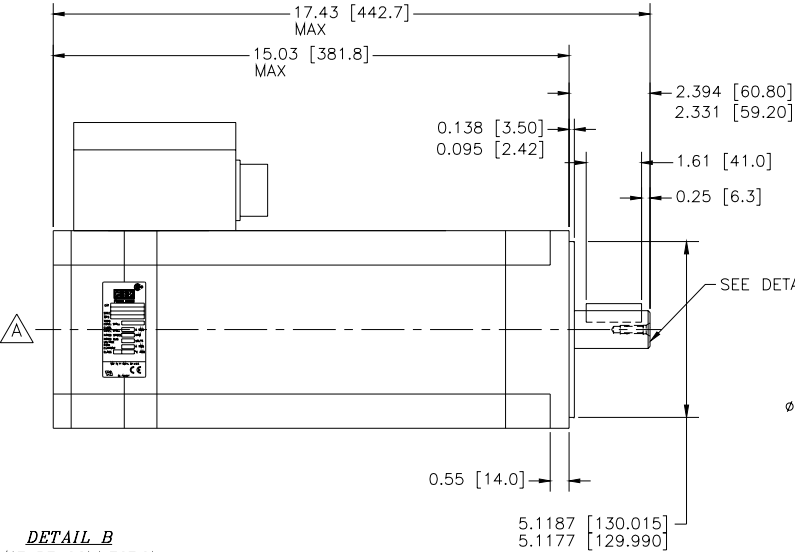
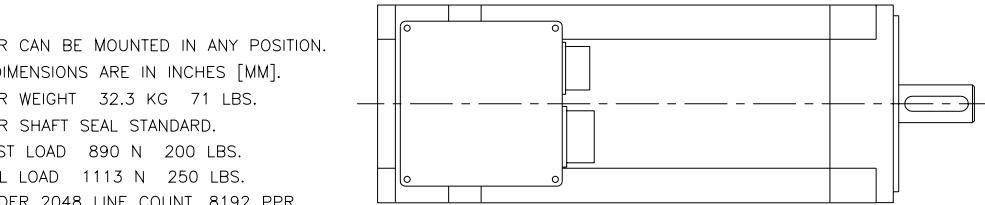
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-B3000/30E	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT	DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0°30'	B	11 JAN 99
X.XXX ± 0.005		NTS	
		SHEET NO.	REVISION
		1 OF 1	B

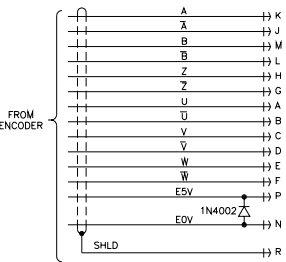
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 32.3 KG 71 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR
QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
03AUG00	B	PER ECN 00-246	CWB	EB	CDR

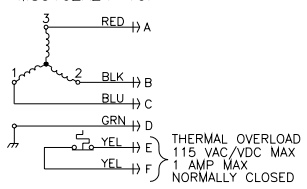


DETAIL A
ENCODER CONNECTION
MS3102E20-29P



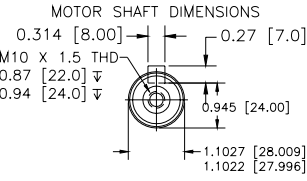
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

DETAIL B
ARMATURE CONNECTION
MS3102A24-10P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A24-10S

DETAIL C



INDUSTRIAL INDEXING SYSTEMS, Inc.
www.iis-servo.com

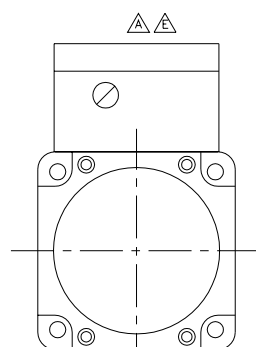
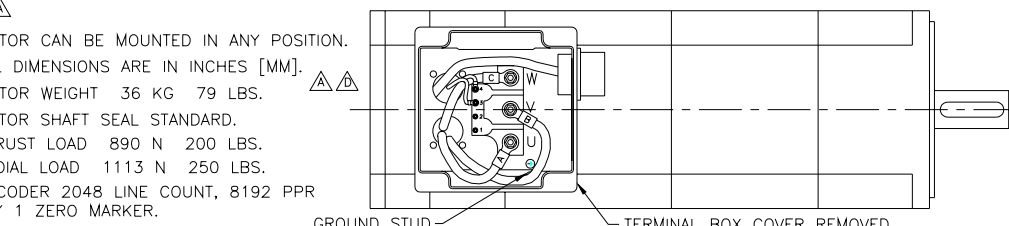
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM-B4400/30E	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT DWGS	SCALE NTS	
X.X ± .01	ANGULAR ± 0°30'	DATE 11JAN99	SHEET NO. 1 OF 1
X.XXX ± 0.005		REVISION B	

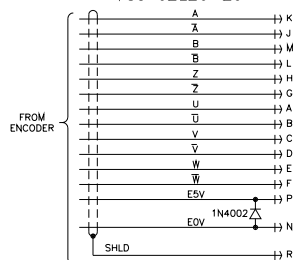
NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 36 KG 79 LBS.
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 890 N 200 LBS.
- 6.) RADIAL LOAD 1113 N 250 LBS.
- 7.) ENCODER 2048 LINE COUNT, 8192 PPR QTY 1 ZERO MARKER.
- 8.) IP-65 SEALING.

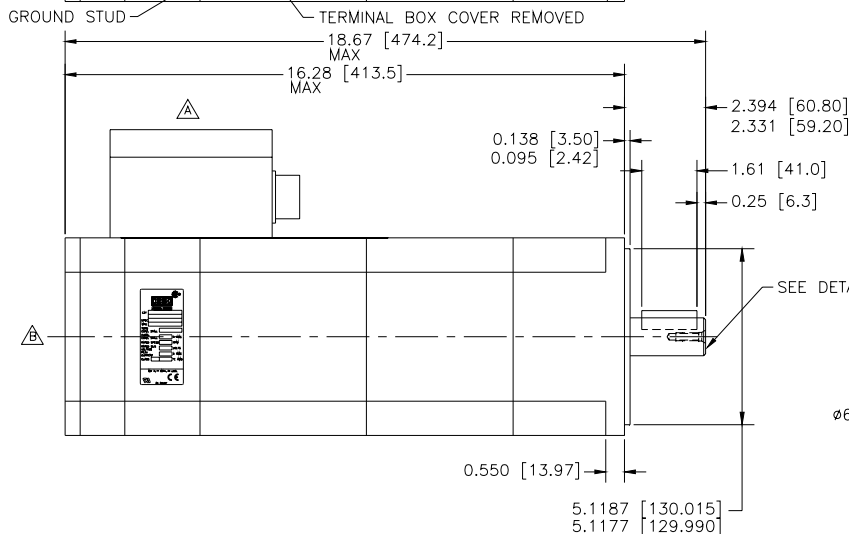
DATE	SYM	REVISION RECORD	DR	CK	CK
17AUG01	E	PER ECN 01-284	CWB	EB	CDR



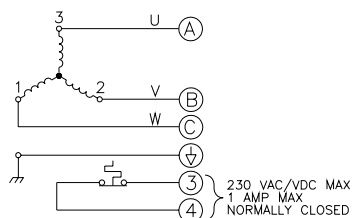
DETAIL A $\triangle$
ENCODER CONNECTION
MS3102E20-29P



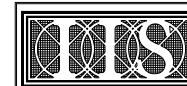
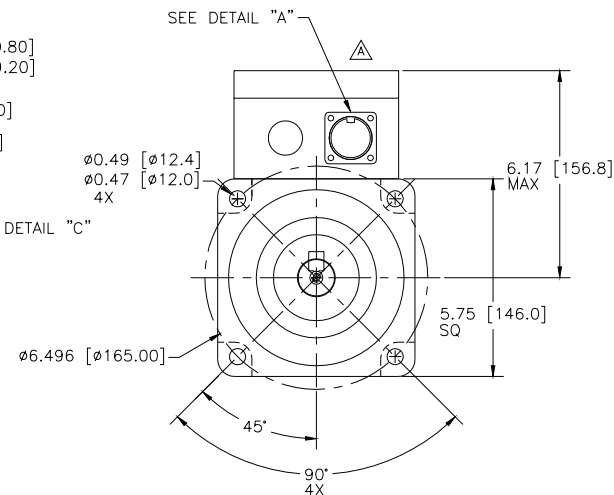
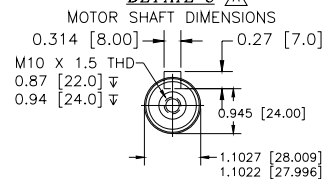
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S



DETAIL B $\triangle \triangle$
ARMATURE CONNECTION



DETAIL C $\triangle$



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

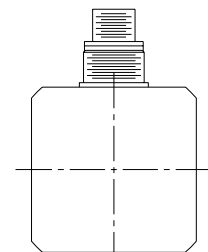
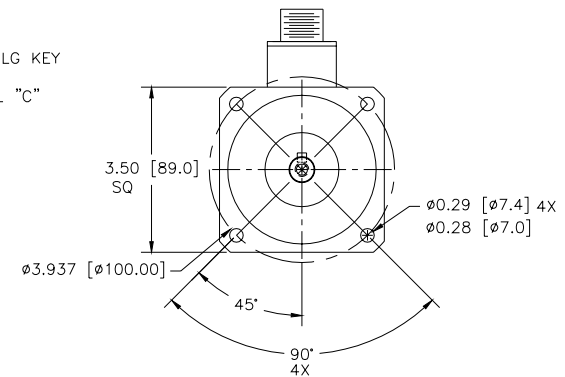
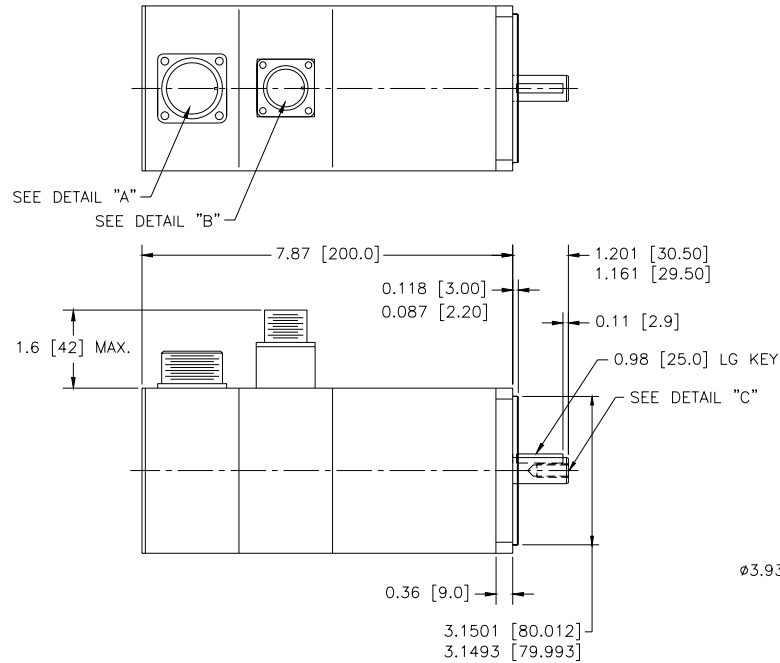
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
TOLERANCES	AutocAD FILE LOCATION Q:\CURRENT DWGS	DBM-B5600/30E	
X.X± ---	ANGULAR	DATE	SCALE
X.XX± 0.01	± 0°30'	B	020CT97
X.XXX± 0.005		DATE	SCALE
		020CT97	NTS
		SHEET NO.	REVISION
		1 OF 1	E

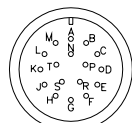
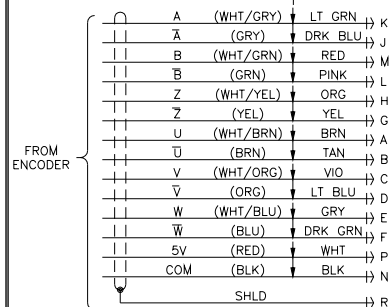
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 6 KG 13.2 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS.
- 5.) RADIAL LOAD 700 N 157.3 LBS.
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.

DATE	SYM	REVISION RECORD	DR	CK	CK
14FEB03	0	PER ECN 03-076	CWB		

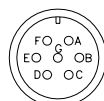
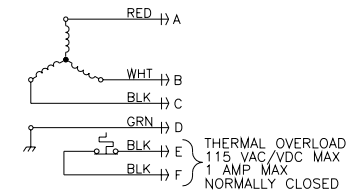


DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

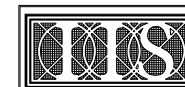
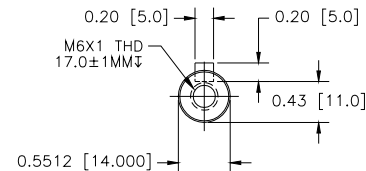
DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C

MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

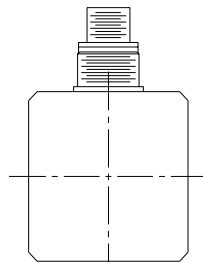
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

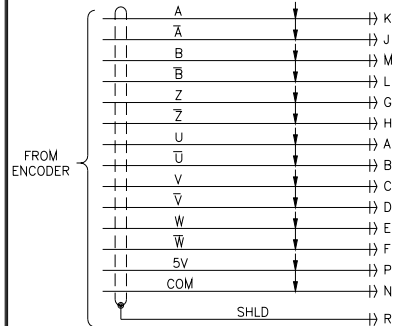
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT DWGS	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0°30'	14FEB03	---
X.XXX ± 0.005			
SHEET NO. 1 OF 1		DRAWING NUMBER DBM-C740/15E	
REVISION 0			

NOTES:

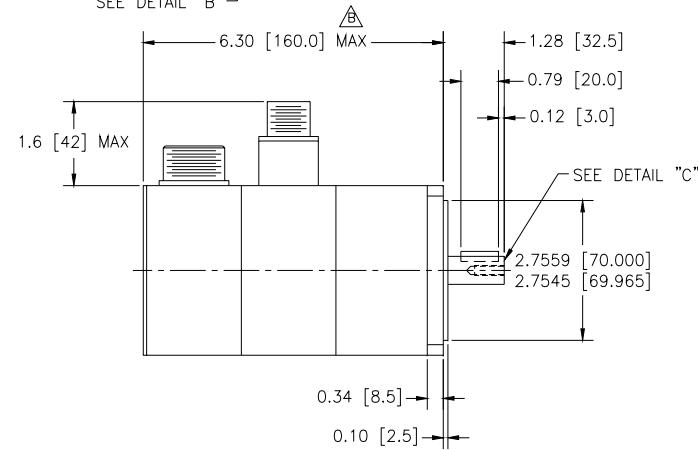
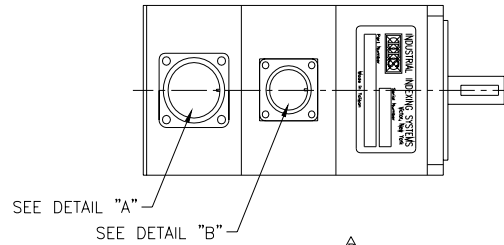
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 3 KG 6.6 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 600 N 134.5 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



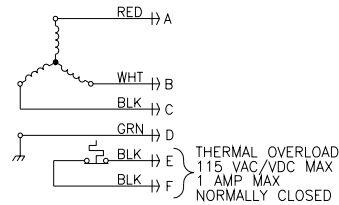
DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

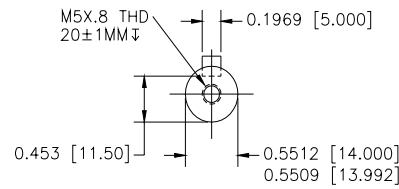


DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P

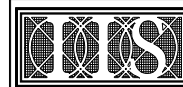
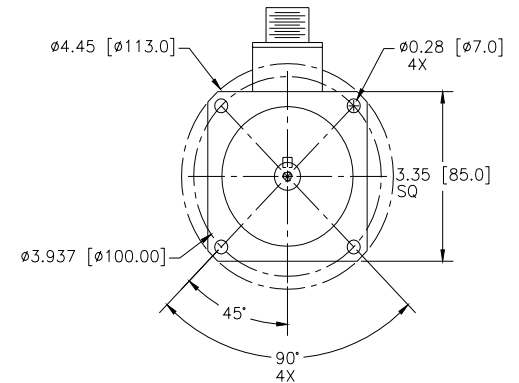


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C
MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
09JUL03	B	PER ECN 03-303	CWB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

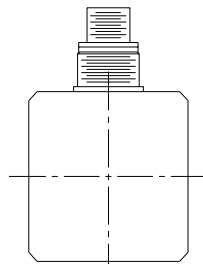
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

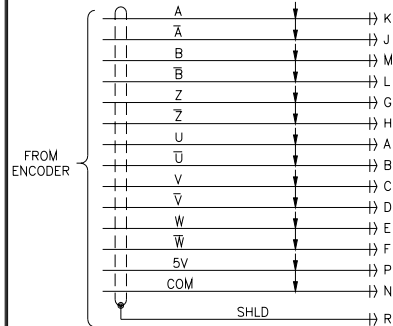
TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER DBM85-E400/20E
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT	DWGS
X.X± ---	ANGULAR	DATE 06MAR03	SCALE ---
X.XX± 0.01	± 0°30'		
X.XXX± 0.005			
		SHEET NO. 1 OF 1	REVISION B

NOTES:

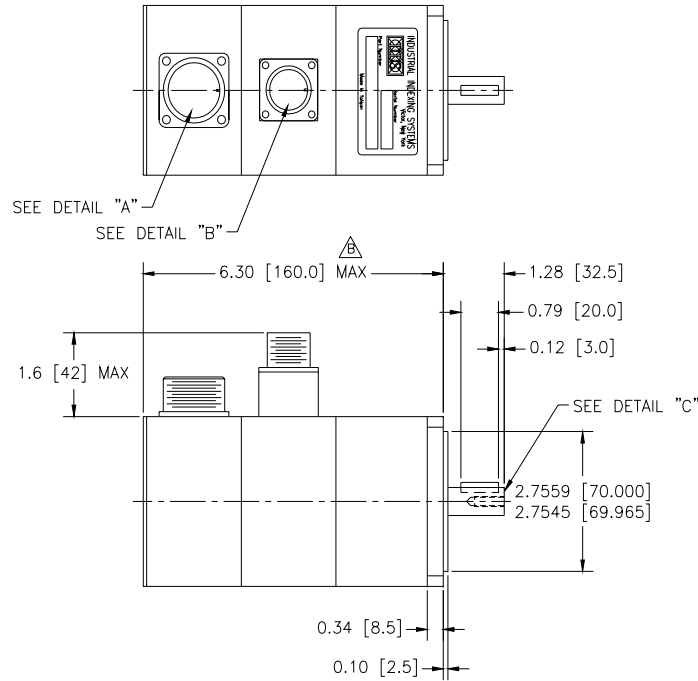
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 3 KG 6.6 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 600 N 134.8 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



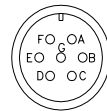
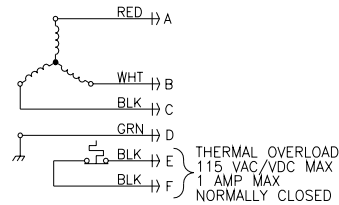
DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

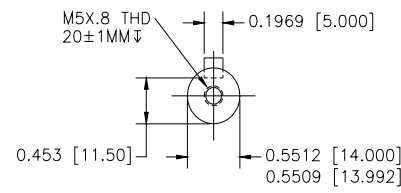


DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P

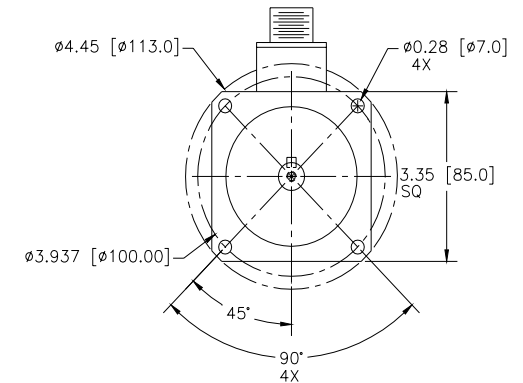


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C
MOTOR SHAFT DIMENSIONS



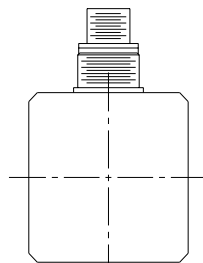
DATE	SYM	REVISION RECORD	DR	CK	CK
09JUL03	B	PER ECN 03-303	CWB		



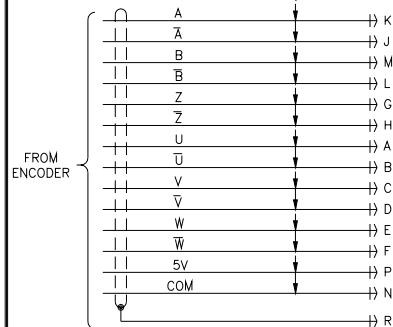
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT	DBM85-E525/30E
X.X± ---	ANGULAR	DWGS	
X.XX± 0.01	± 0°30'	SCALE	
X.XXX± 0.005		DATE 11FEB03	SHEET NO. 1 OF 1
			REVISION B

NOTES:

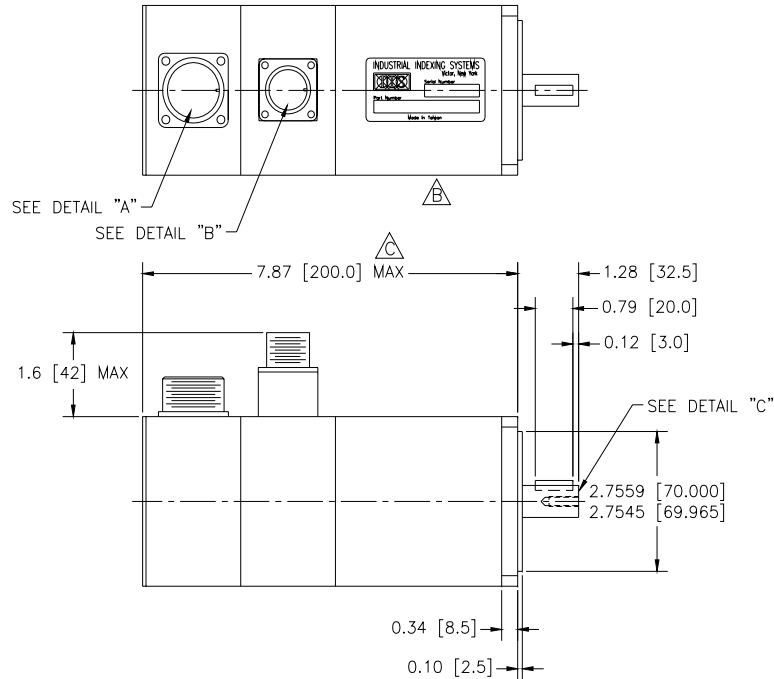
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 5 KG 11 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 700 N 157.3 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



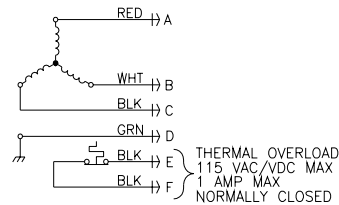
DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

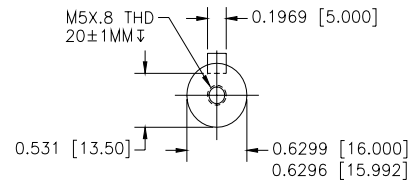


DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P

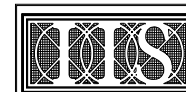
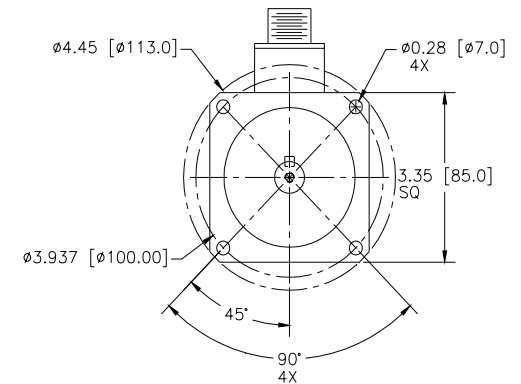


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C
MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
09JUL03	C	PER ECN 03-303	CWB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

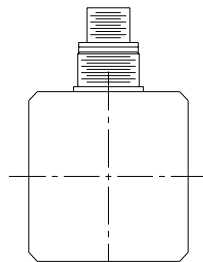
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

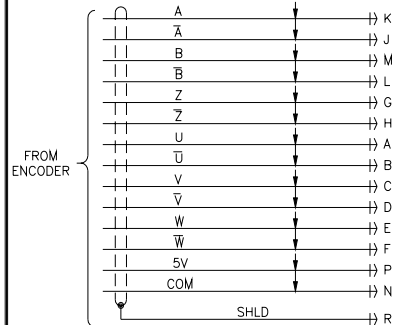
TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY	DRAWING NUMBER
		BOWMAN	DBM85-E750/20E
TOLERANCES		AutoCAD FILE LOCATION	
X.X± ---	ANGULAR	Q:\CURRENT	DWGS
X.XX± 0.01	± 0°30'	DATE	SCALE
X.XXX± 0.005		11FEB03	---
		SHEET NO.	REVISION
		1 OF 1	C

NOTES:

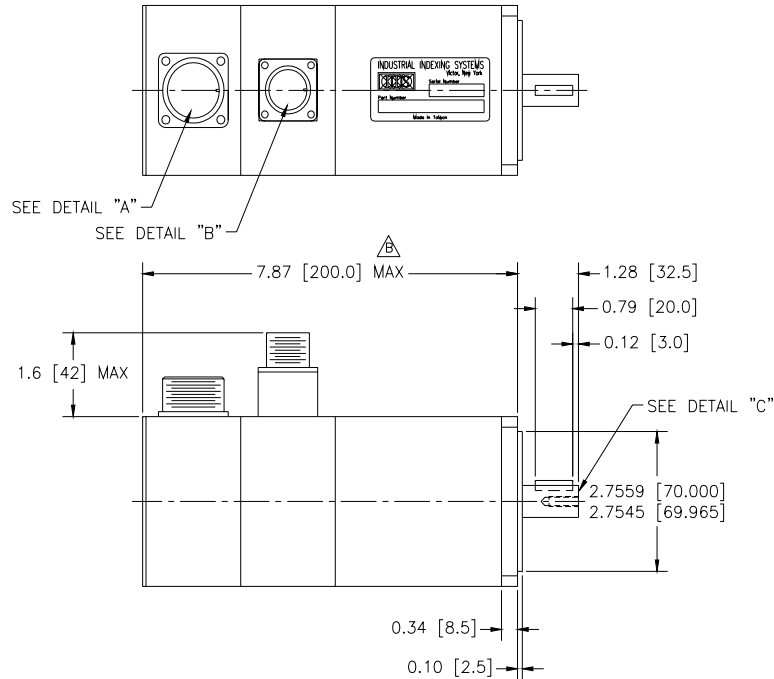
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 5 KG 11 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 700 N 157.3 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



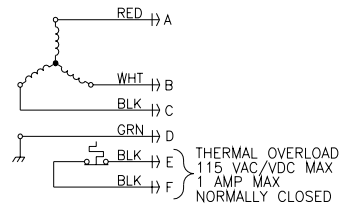
DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S

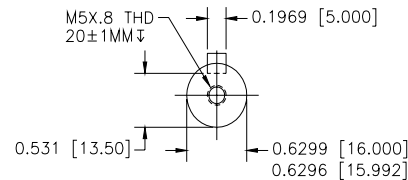


DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P

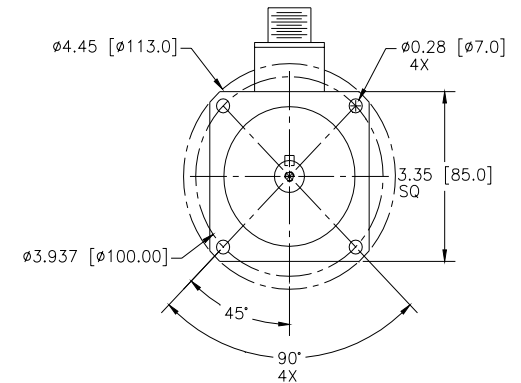


VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C
MOTOR SHAFT DIMENSIONS



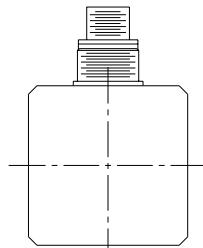
DATE	SYM	REVISION RECORD	DR	CK	CK
09JUL03	B	PER ECN 03-303	CWB		



		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN		DRAWING NUMBER DBM85-E850/30E
	AutoCAD FILE LOCATION Q:\CURRENT DWGS		
TOLERANCES			
X.X± ---	ANGULAR	DATE	SCALE
X.XX± 0.01	± 0°30'	B 11FEB03	SHEET NO. 1 OF 1
X.XXX± 0.005			REVISION B

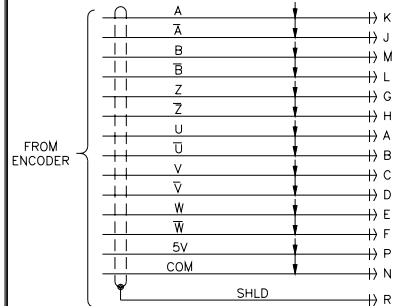
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 6 KG 13.2 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 700 N 157.3 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



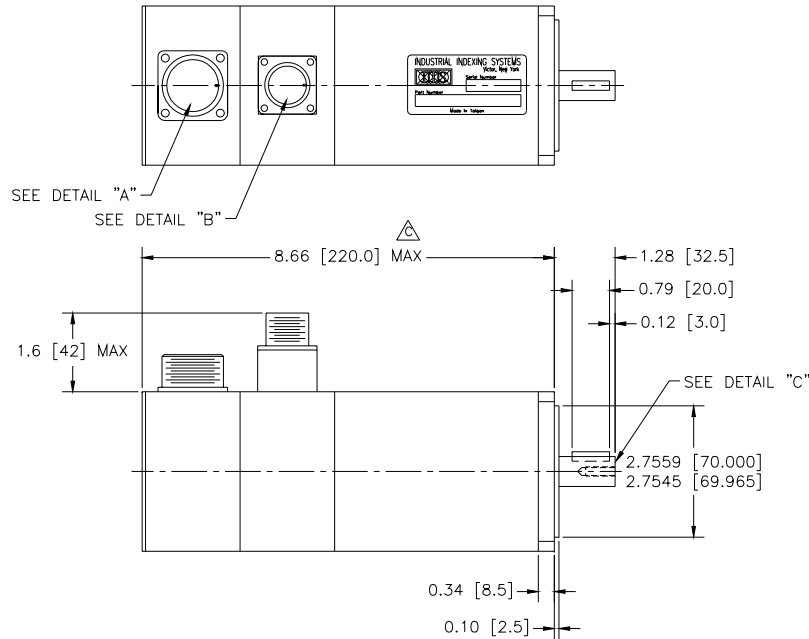
DETAIL A

ENCODER CONNECTION
MS3102A20-29P



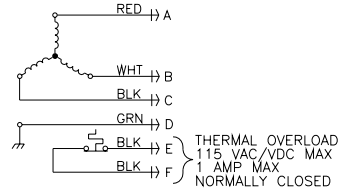
VIEW OF CONNECTOR

MATING SOCKET:
ENCODER: MS3106A20-29S



DETAIL B

ARMATURE CONNECTION
MS3102A16S-1P

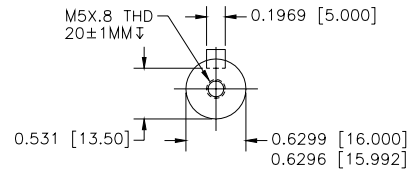


VIEW OF CONNECTOR

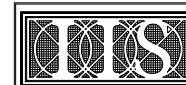
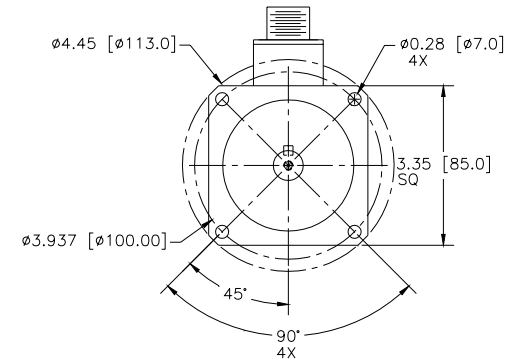
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C

MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
27JUN03	C	PER ECN 03-303	EB		



INDUSTRIAL INDEXING SYSTEMS, Inc.

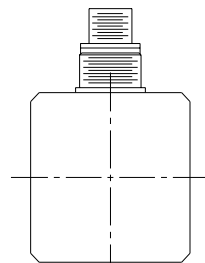
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

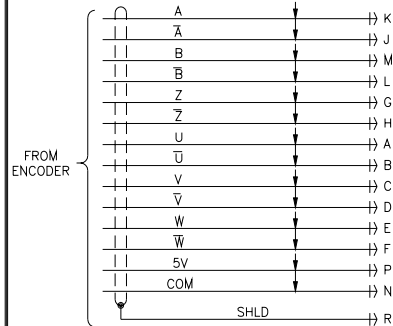
TITLE		MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY		DRAWING NUMBER		
	BOWMAN		DBM85-E1000/20E		
TOLERANCES		AutoCAD FILE LOCATION		DWGS	
X.X ± ---	ANGULAR	Q:\CURRENT	DATE	SCALE	SHEET NO.
X.XX ± 0.01	± 0°30'	B	02JAN03	---	1 OF 1
X.XXX ± 0.005					REVISION C

NOTES:

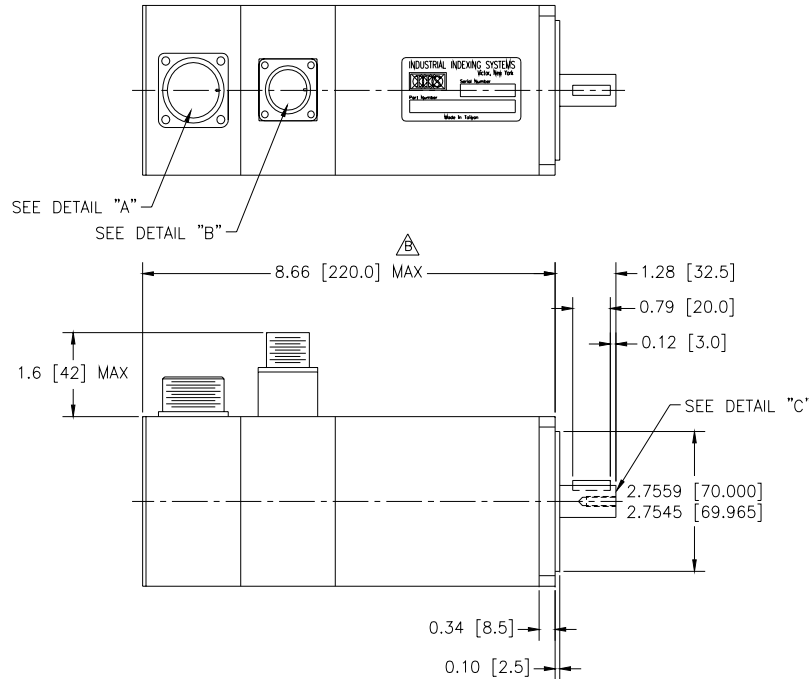
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES (MM).
- 3.) MOTOR WEIGHT 6 KG 13.2 LBS.
- 4.) THRUST LOAD 120 N 26.9 LBS
- 5.) RADIAL LOAD 700 N 157.3 LBS
- 6.) ENCODER 2500 LINE COUNT,
10,000 PPR, QTY 1 ZERO MARKER.
- 7.) IP-55 SEALING.
- 8.) MOTOR SHAFT SEAL IS STANDARD.



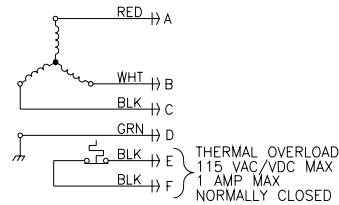
DETAIL A
ENCODER CONNECTION
MS3102A20-29P



VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: MS3106A20-29S



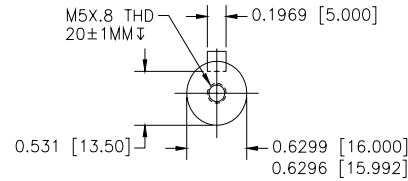
DETAIL B
ARMATURE CONNECTION
MS3102A16S-1P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106A16S-1S

DETAIL C

MOTOR SHAFT DIMENSIONS



INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

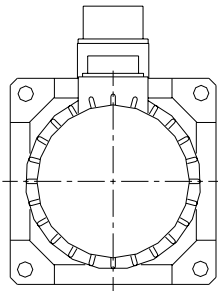
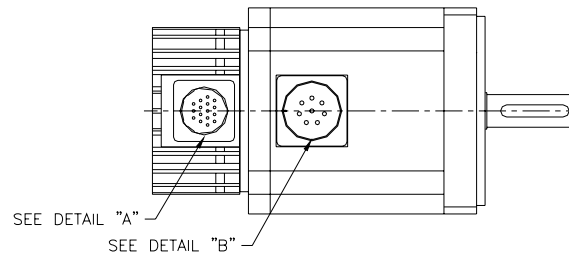
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE		MOTOR, DELTA SERIES	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	DRAWING NUMBER DBM85-E1200/30E
TOLERANCES		AutoCAD FILE LOCATION Q:\CURRENT	DWGS
X.X± ---	ANGULAR	DATE	SCALE
X.XX± 0.01	± 0°30'	11FEB03	---
X.XXX± 0.005			
		SHEET NO. 1 OF 1	REVISION B

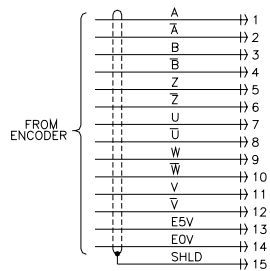
DATE	SYM	REVISION RECORD	DR	CK	CK
09JUL03	B	PER ECN 03-303	CWB		

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 6.0 KG 13.2 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 300 N 67 LBS
- 6.) RADIAL LOAD 700 N 157 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.



DETAIL A
ENCODER CONNECTION
PLS-2816-RM

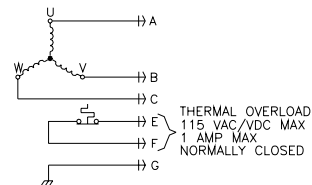


VIEW OF CONNECTOR

MATING SOCKET:

ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P

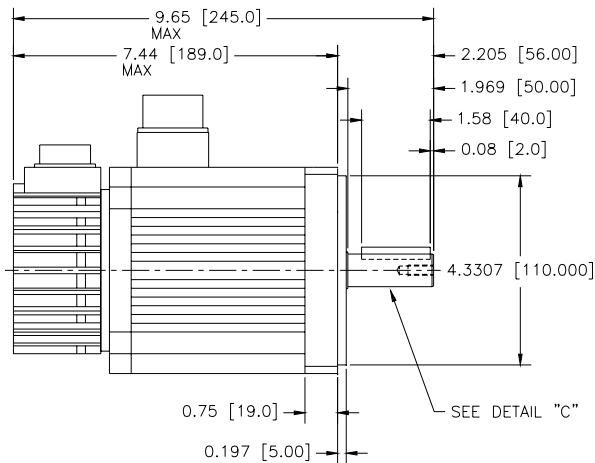


THERMAL OVERLOAD
115 VAC/VDC MAX
1 AMP MAX
NORMALLY CLOSED

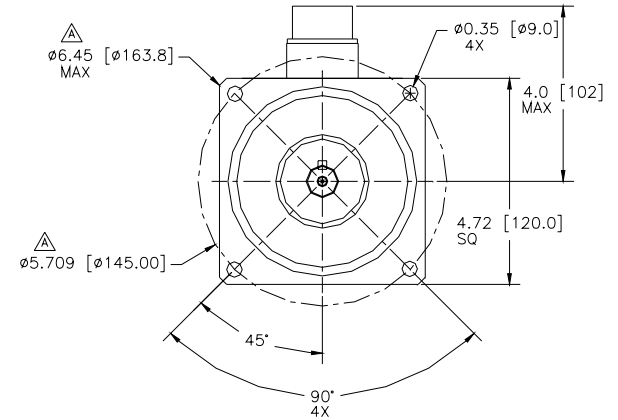
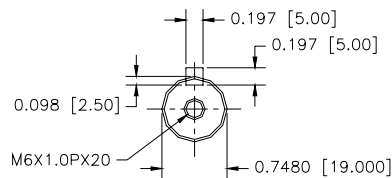
VIEW OF CONNECTOR

MATING SOCKET:

MOTOR: MS3106B22-23S



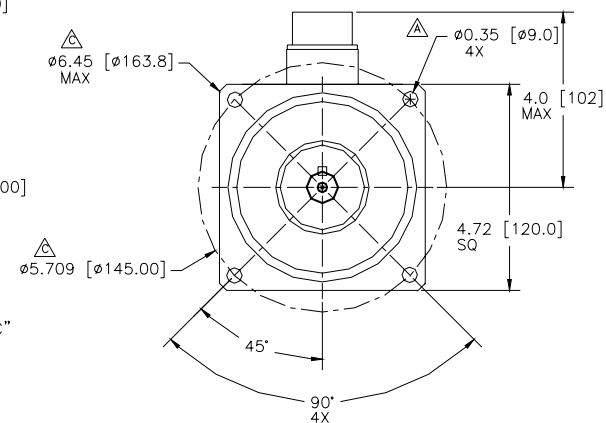
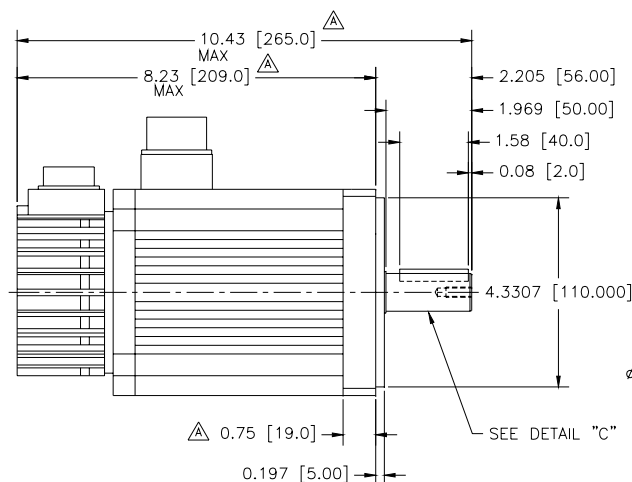
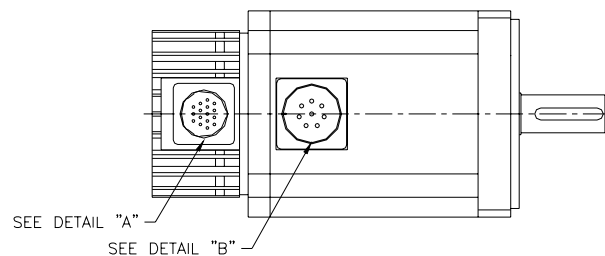
DETAIL C
MOTOR SHAFT DIMENSIONS



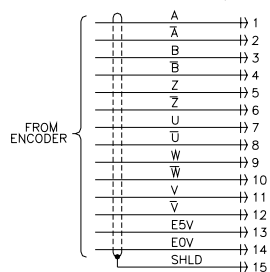
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER	
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT	DBM120-E750/20E	
X.X ± ---	ANGULAR	DATE	SCALE
X.XX ± 0.01	± 0°30'	B	SHEET NO.
X.XXX ± 0.005		23JUN03	1 OF 1
			REVISION
			A

NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 8 KG 18 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 400 N 90 LBS
- 6.) RADIAL LOAD 800 N 180 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.



DETAIL A
ENCODER CONNECTION
PLS-2816-RM

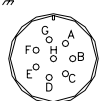
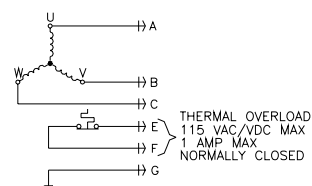


VIEW OF CONNECTOR

MATING SOCKET:

ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P

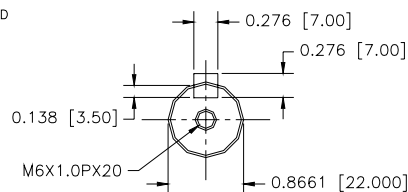


VIEW OF CONNECTOR

MATING SOCKET:

MOTOR: MS3106B22-23S

DETAIL C
MOTOR SHAFT DIMENSIONS

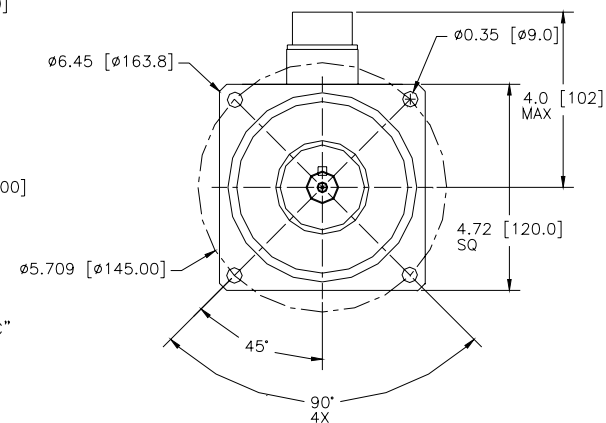
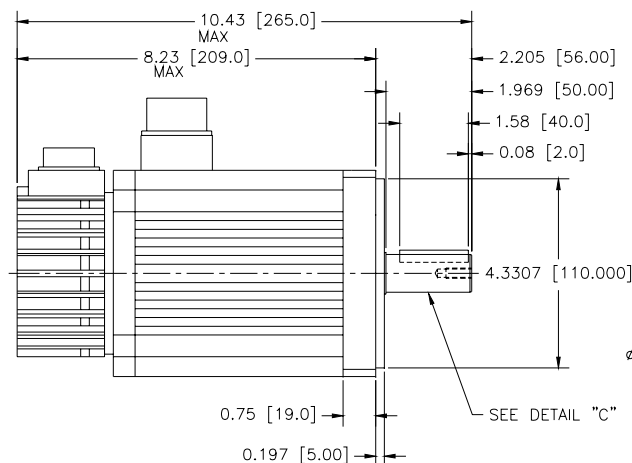
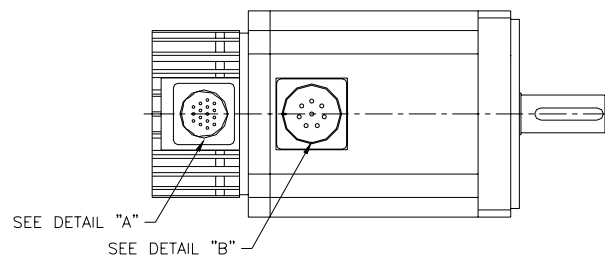


DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	C	PER ECN 04-155	CWB		

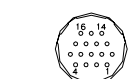
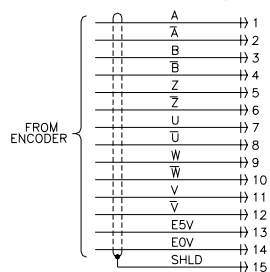
 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM120-E1000/20E			
TOLERANCES	AutoCAD FILE LOCATION O:\CURRENT	DWGS	SCALE	SHEET NO.	REVISION
X.X ± ---	DATE 06MAY02	---	---	1 OF 1	C
X.XX ± 0.01					
X.XXX ± 0.005					

NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 8 KG 18 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 400 N 90 LBS
- 6.) RADIAL LOAD 800 N 180 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.



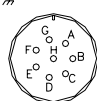
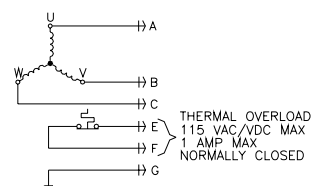
DETAIL A
ENCODER CONNECTION
PLS-2816-RM



VIEW OF CONNECTOR

MATING SOCKET:
ENCODER: PLS-2816-PF

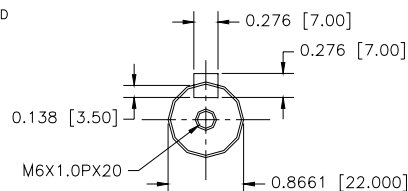
DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106B22-23S

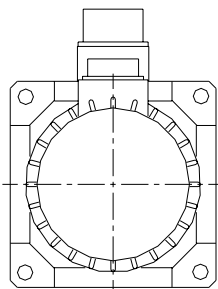
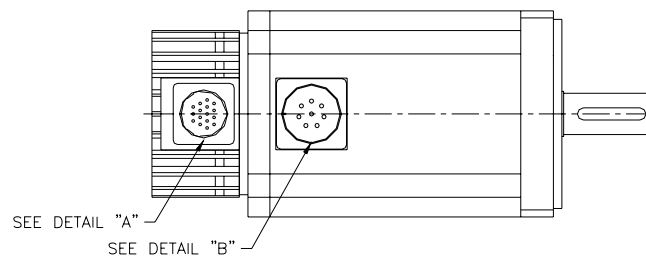
DETAIL C
MOTOR SHAFT DIMENSIONS



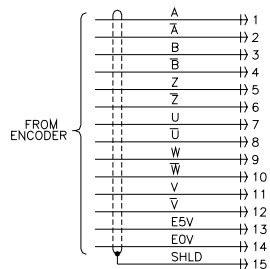
		INDUSTRIAL INDEXING SYSTEMS, Inc.	
		www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE			
MOTOR, DELTA SERIES			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY BOWMAN	
TOLERANCES		DRAWING NUMBER	
X.X ± ---		AutoCAD FILE LOCATION	
X.XX ± 0.01		Q:\CURRENT	
X.XXX ± 0.005		DWGS	
ANGULAR ± 0°30'		DBM120-E1000H/20E	
B DATE		SCALE	
19APR05		SHEET NO.	
		1 OF 1	
		REVISION	
		0	

NOTES: $\triangle$

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 9.5 KG 21 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.



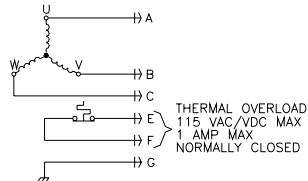
DETAIL A
ENCODER CONNECTION
PLS-2816-RM



VIEW OF CONNECTOR

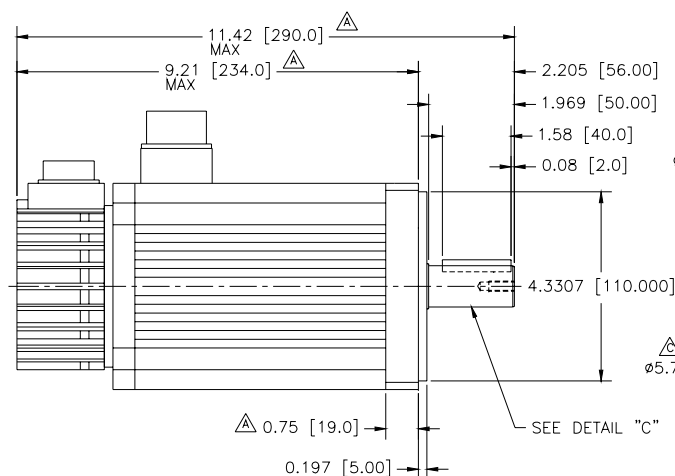
MATING SOCKET:
ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P

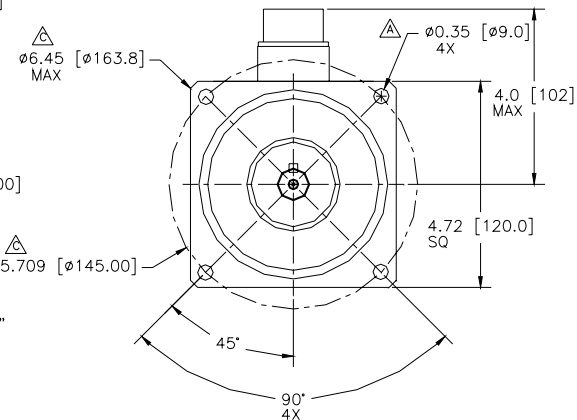
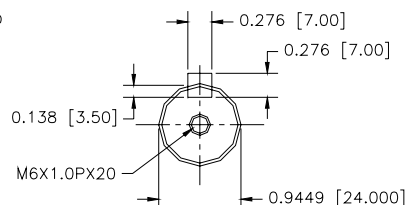


VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106B22-23S



DETAIL C
MOTOR SHAFT DIMENSIONS

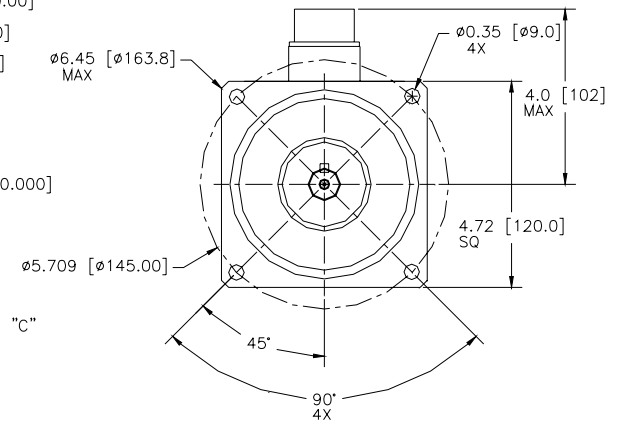
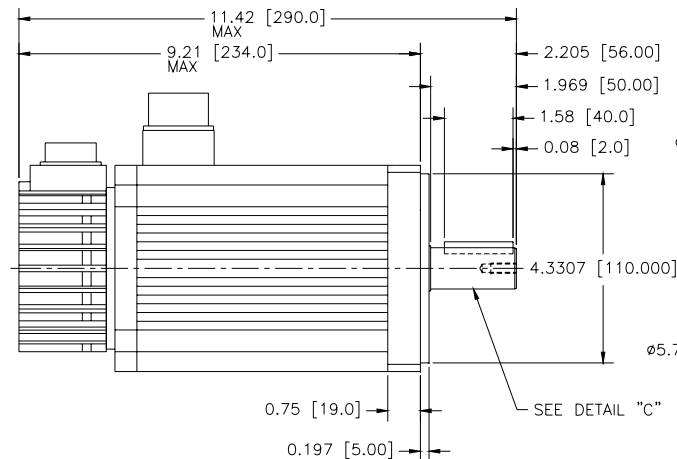
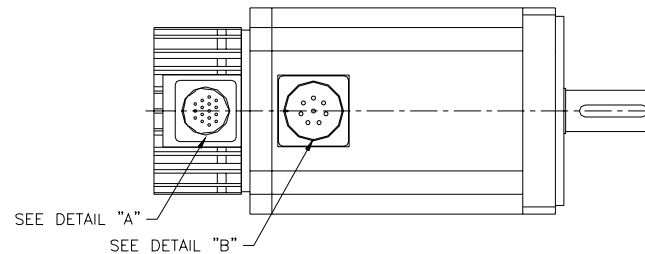


	INDUSTRIAL INDEXING SYSTEMS, Inc.	
	www.iis-servo.com	
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.		
TITLE		
MOTOR, DELTA SERIES		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT	DWGS
X.X ± --- X.XX ± 0.01 X.XXX ± 0.005	DATE 30APR02	DBM120-E1500/20E
ANGULAR ± 0° 30'	SCALE ---	SHEET NO. 1 OF 1
		REVISION C

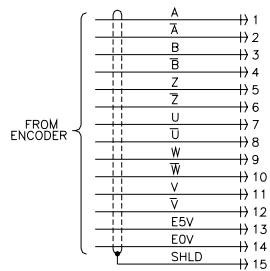
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 9.5 KG 21 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
19APR05	0	PER ECN 05-157	CWB		

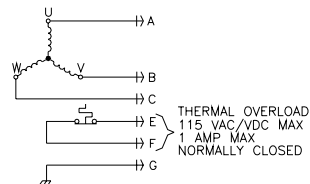


DETAIL A
ENCODER CONNECTION
PLS-2816-RM



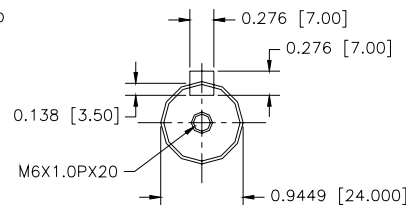
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106B22-23S

DETAIL C
MOTOR SHAFT DIMENSIONS

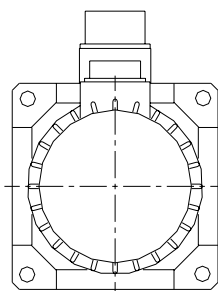
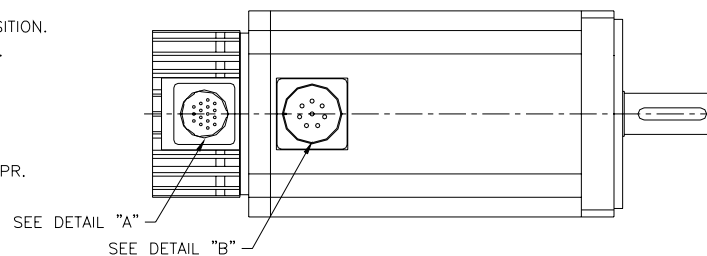


		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN		DRAWING NUMBER		
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT		DWGS DBM120-E1500H/20E		
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B 19APR05	---	1 OF 1	0
X.XXX ± 0.005					

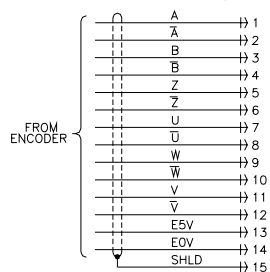
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 11.0 KG 24 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	A	PER ECN 04-155	CWB		

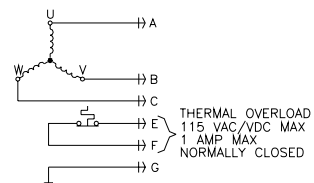


DETAIL A
ENCODER CONNECTION
PLS-2816-RM

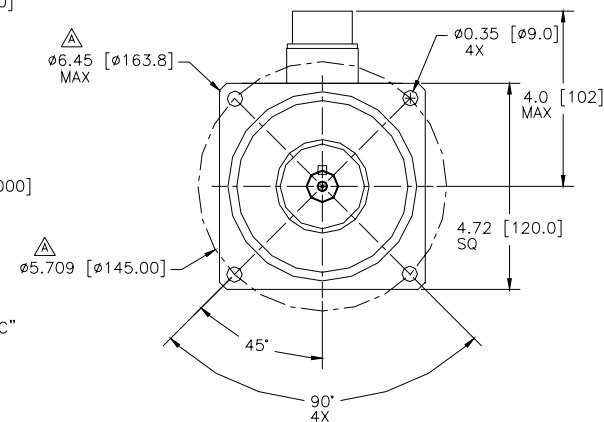
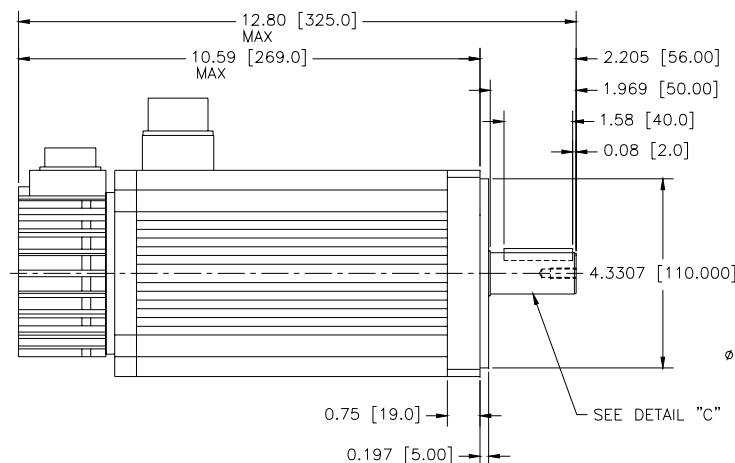


VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: PLS-2816-PF

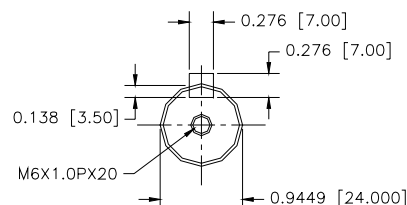
DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106B22-23S



DETAIL C
MOTOR SHAFT DIMENSIONS

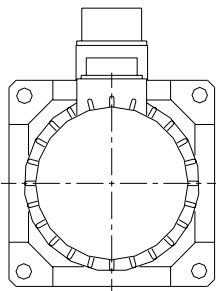
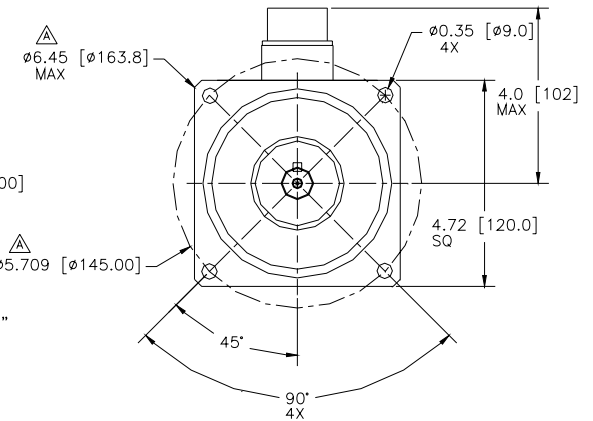
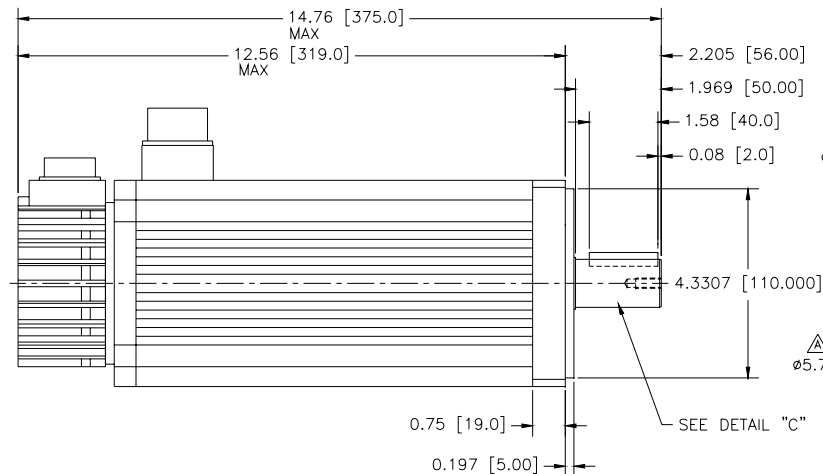
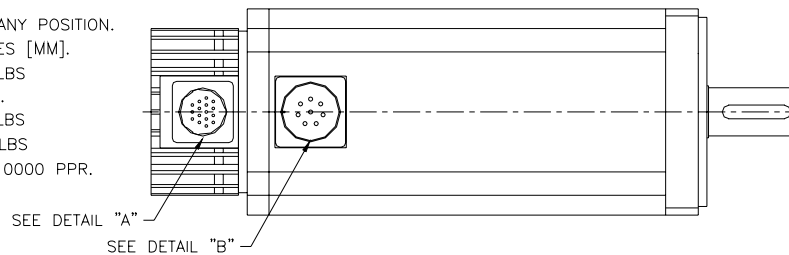


INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)	DRAWN BY BOWMAN	DRAWING NUMBER DBM120-E2200/20E			
TOLERANCES	AutoCAD FILE LOCATION Q:\CURRENT	DWGS	SCALE	SHEET NO.	REVISION
X.X ± ---	DATE B 23JUN03	DATE	SCALE	1 OF 1	A
X.XX ± 0.01					
X.XXX ± 0.005					

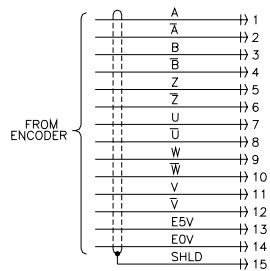
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 15 KG 33 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	A	PER ECN 04-155	CWB		



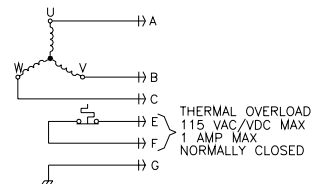
DETAIL A
ENCODER CONNECTION
PLS-2816-RM



VIEW OF CONNECTOR

MATING SOCKET:
ENCODER: PLS-2816-PF

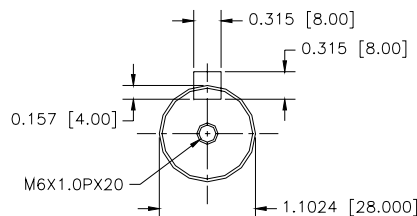
DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR

MATING SOCKET:
MOTOR: MS3106B22-23S

DETAIL C
MOTOR SHAFT DIMENSIONS

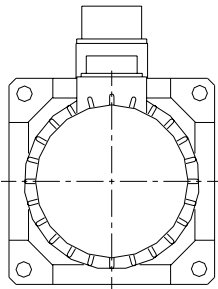
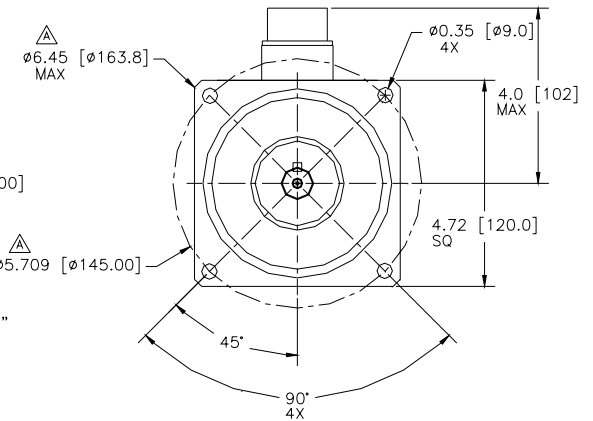
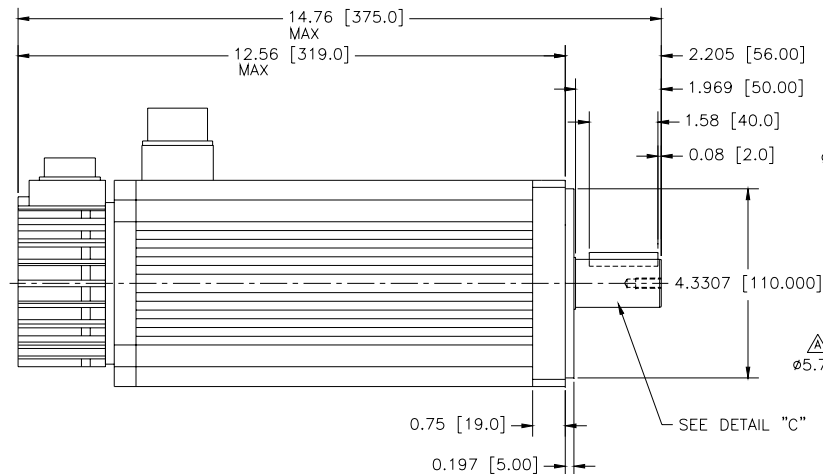
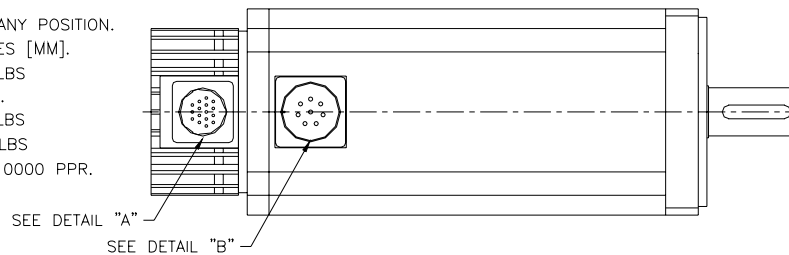


 INDUSTRIAL INDEXING SYSTEMS, Inc. www.iis-servo.com					
THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.					
TITLE MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION O:\CURRENT		DWGS	
X.X ± ---	ANGULAR	DATE	SCALE	SHEET NO.	REVISION
X.XX ± 0.01	± 0°30'	B	23JUN03	1 OF 1	A
X.XXX ± 0.005					

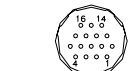
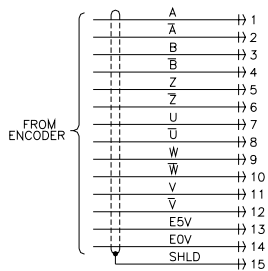
NOTES:

- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 15 KG 33 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	A	PER ECN 04-155	CWB		

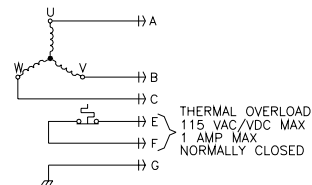


DETAIL A
ENCODER CONNECTION
PLS-2816-RM



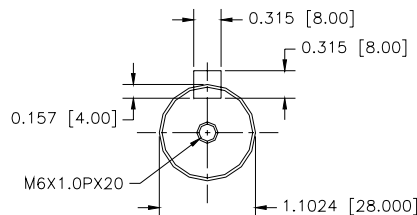
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106B22-23S

DETAIL C
MOTOR SHAFT DIMENSIONS



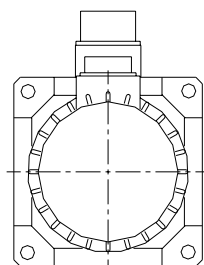
		INDUSTRIAL INDEXING SYSTEMS, Inc.		www.iis-servo.com	
		THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.			
TITLE					
MOTOR, DELTA SERIES					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)		DRAWN BY BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DBM120-E3000H/20E	
X.X ± ---	ANGULAR	Q:\CURRENT		DWGS	
X.XX ± 0.01	± 0°30'	DATE		SCALE	
X.XXX ± 0.005		B 15MAR04		SHEET NO. 1 OF 1	
				REVISION A	

NOTES:

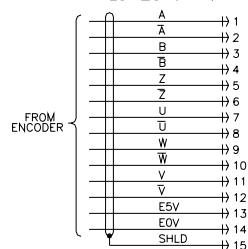
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 18 KG 40 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

SEE DETAIL "A"

SEE DETAIL "B"

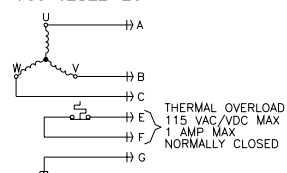


DETAIL A
ENCODER CONNECTION
PLS-2816-RM



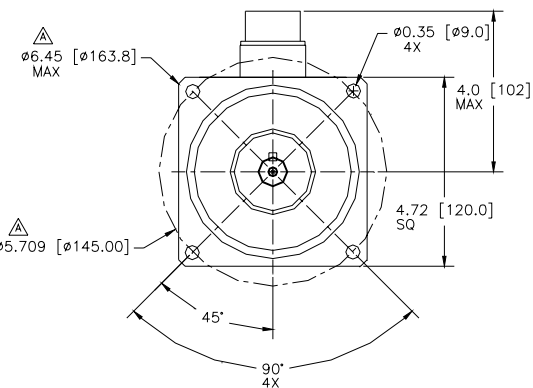
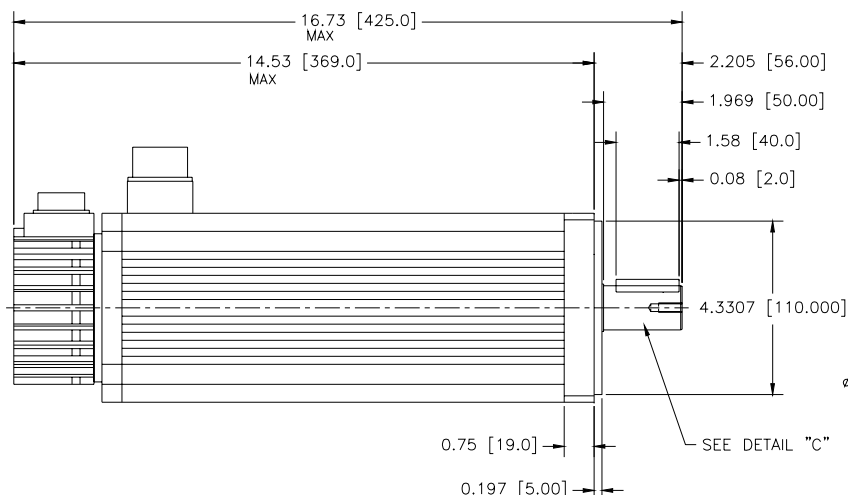
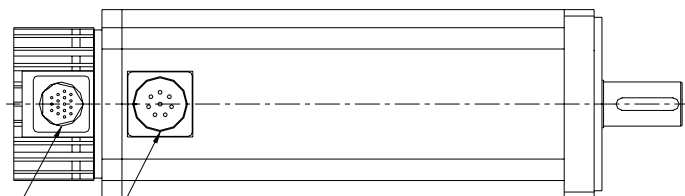
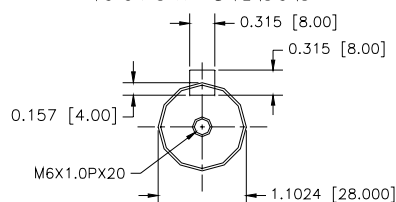
VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: PLS-2816-PF

DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106B22-23S

DETAIL C
MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	A	PER ECN 04-155	CWB		

INDUSTRIAL INDEXING SYSTEMS, Inc.
www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE: **MOTOR, DELTA SERIES**

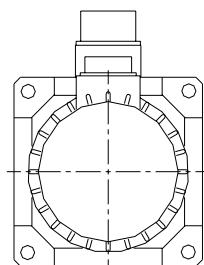
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY: BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DBM120-E4000/20E	
X.X ± ---	ANGULAR	Q:\CURRENT	DWGS		
X.XX ± 0.01	± 0°30'	DATE	SCALE	SHEET NO.	REVISION
X.XXX ± 0.05		B 23JUN03	---	1 OF 1	A

NOTES:

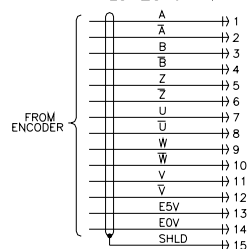
- 1.) MOTOR CAN BE MOUNTED IN ANY POSITION.
- 2.) ALL DIMENSIONS ARE IN INCHES [MM].
- 3.) MOTOR WEIGHT 18 KG 40 LBS
- 4.) MOTOR SHAFT SEAL STANDARD.
- 5.) THRUST LOAD 500 N 112 LBS
- 6.) RADIAL LOAD 1000 N 225 LBS
- 7.) ENCODER 2500 LINE COUNT 10000 PPR.
- 8.) IP-55 SEALING.

SEE DETAIL "A"

SEE DETAIL "B"

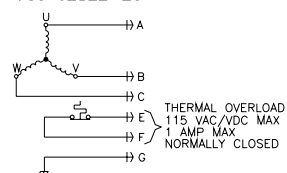


DETAIL A
ENCODER CONNECTION
PLS-2816-RM

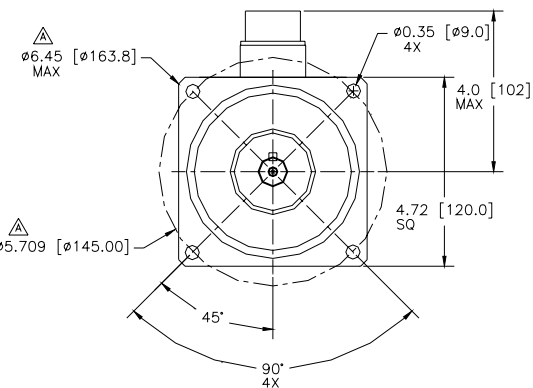
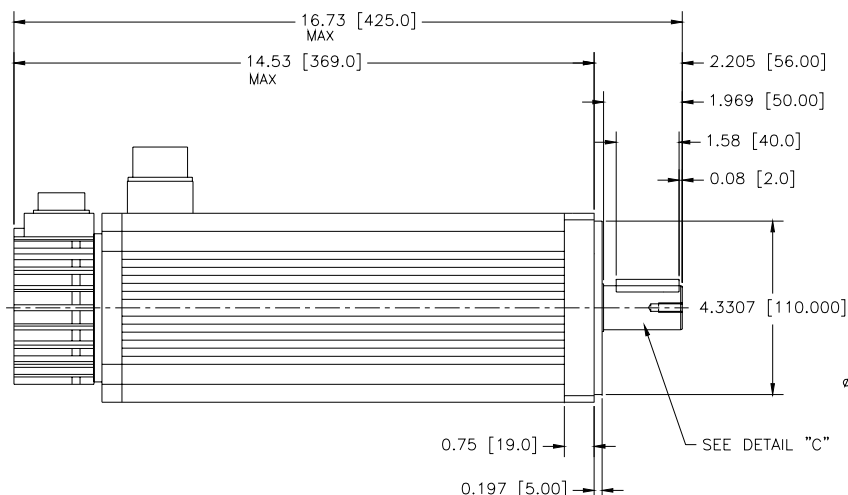
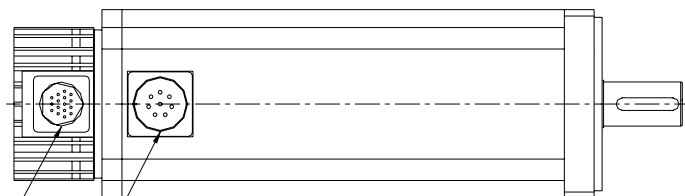


VIEW OF CONNECTOR
MATING SOCKET:
ENCODER: PLS-2816-PF

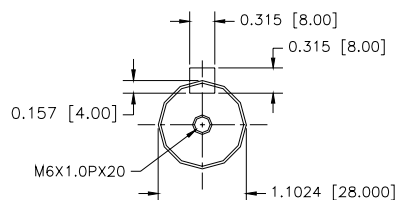
DETAIL B
ARMATURE CONNECTION
MS3102B22-23P



VIEW OF CONNECTOR
MATING SOCKET:
MOTOR: MS3106B22-23S



DETAIL C
MOTOR SHAFT DIMENSIONS



DATE	SYM	REVISION RECORD	DR	CK	CK
21APR04	A	PER ECN 04-155	CWB		

INDUSTRIAL INDEXING SYSTEMS, Inc.

www.iis-servo.com

THIS DRAWING, AND THE DATA CONTAINED THEREIN, ARE PROPRIETARY INFORMATION OF: INDUSTRIAL INDEXING SYSTEMS, Inc. AND IS ISSUED IN STRICT CONFIDENCE, AND IT SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF: INDUSTRIAL INDEXING SYSTEMS, Inc.

TITLE: **MOTOR, DELTA SERIES**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCHES (mm)		DRAWN BY: BOWMAN		DRAWING NUMBER	
TOLERANCES		AutoCAD FILE LOCATION		DBM120-E4000H/20E	
X.X ± ---	ANGULAR	Q:\CURRENT	DWGS		
X.XX ± 0.01	± 0° 30'	DATE	SCALE	SHEET NO.	REVISION
X.XXX ± 0.05		B 26JAN04	---	1 OF 1	A