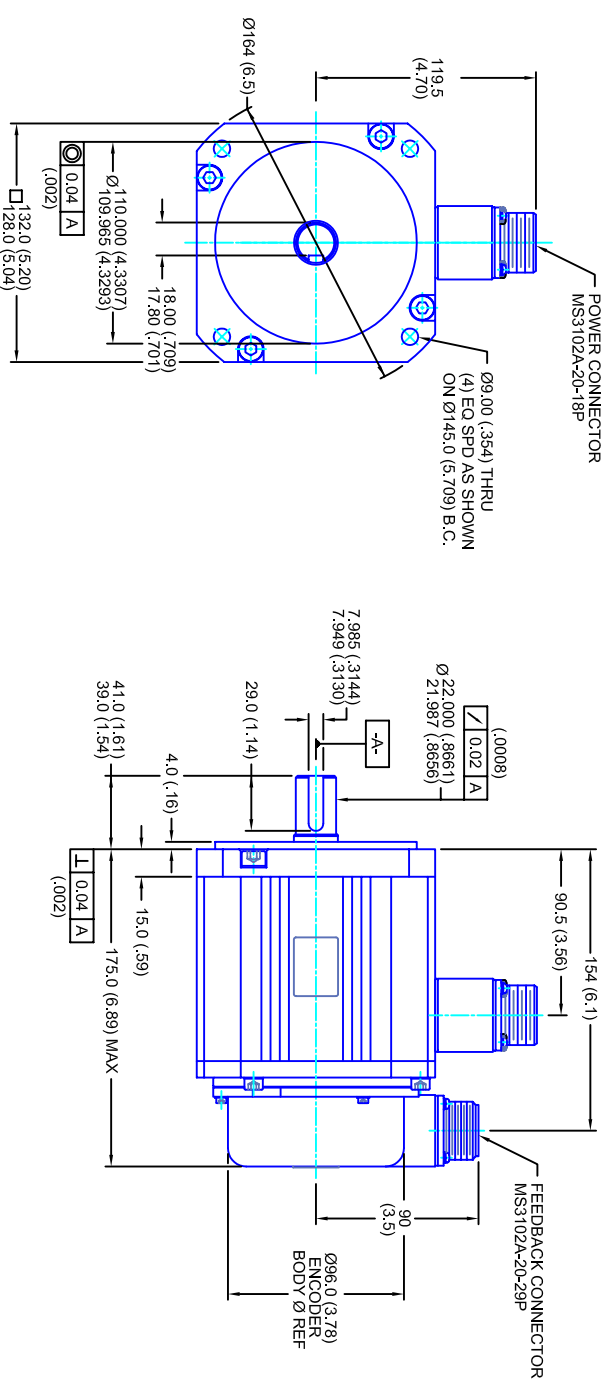


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	4/8/04	



MOTOR NOTES:

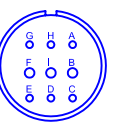
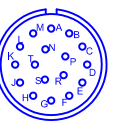
1. MILLIMETERS (INCHES)
2. AXIAL LOAD: 10 KG [22 LBS] MAX
3. RADIAL LOAD: 50 KG [110 LBS] MAX @ 20MM [0.79] FROM FACE
4. MOTOR SEALED TO IP65; EXCEPT THE PART WITH CONN & OIL SEAL
5. MOTOR SHAFT: SCM440H STEEL
6. OIL SEAL: 024 (95) PROTRUDES FROM FEC 4.0 (16)
7. MOTOR FINISH: SEMI GLOSS BLACK
8. MOTOR WEIGHT 8.0 KG [17.6 LBS]

ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	5.1
KILOWATTS	KW	3.8
MAX OPERATING SPEED	RPM	4500
SPEED @ RATED TORQUE	RPM	3450
*CONTINUOUS RATED TORQUE @ 3450 RPM	IN-LBS(IN) / N-M	93.0(10.5)
*CONTINUOUS STALL TORQUE	IN-LBS(IN) / N-M	102.3(11.6)
*CONTINUOUS LINE CURRENT	AMPS(RMS) / A	18.9
PEAK TORQUE	IN-LBS(IN) / N-M	278.8(31.5)
PEAK CURRENT	AMPS(RMS) / A	55.0
MAX THEORETICAL ACCEL.	RAD/SEC ²	27,068
TORQUE SENSITIVITY	KI [N-LBS/AMP(RMS) / (IN) / (N) / (M) / (P) / (S) / (Φ)]	5.0(1.56)
BACK EMF (LINE TO LINE)	Vrms/Krpm	31.1
D.C. RESISTANCE (P-P)	OHMS	32
INDUCTANCE (P-P)	MILLIHENRIES	2.6
ROTOR INERTIA	IN-LBS-SEC ² / (KG-M ²)	.0103(1.00116)
STATIC FRICTION	TT	1.5(1.17)

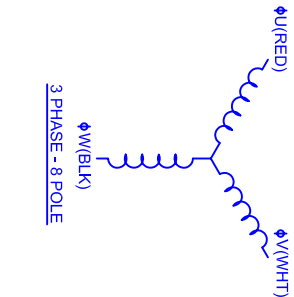
ENCODER INFO:
5V - 2048L COMMUTATING

CONNECTION CHART



PIN	WIRE FUNCTION	WIRE COLOR
A	CH A	BLU
B	CH A/	BLU/BLK
C	CH B	GRN
D	CH B/	GRN/BLK
E	-	-
F	CH Z	YEL
G	CH Z/	YEL/BLK
H	CH U	BRN
J	CH V/	BRN/BLK
K	CH V	GRY
L	CH W/	GRY/BLK
M	CH W	WHT
N	CASE GND	-
P	-	-
R	GND	BLK
S	+5VDC	RED
T	CH W/	WHT/BLK

PIN	WIRE FUNCTION	WIRE COLOR
A	THERM	-
B	ΦW	BLK
C	THERM	-
D	-	-
E	PE GND	GRN/YEL
F	ΦU	RED
G	-	-
H	-	-
I	ΦV	WHT



TOLERANCES UNLESS SPECIFIED

BORING: = H12 ✓
 DEPTH: = H12 (0.05)
 DECIMAL .xxx ±.12 (0.05)
 DECIMAL .xx ±.25 (0.10)
 DECIMAL .x ±.51 (0.20)
 FRACTION ±.01 (0.16)
 ANGLE (MM INCHES) ±.030

REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN

CUSTOMER: T54836N1227E235 DRAWN: DFLA SHEET: 1 OF 1

SCALE: 1/2:1 DATE: 1/26/04 DRAWING NO: CM1302Q31MK2048CT REV: 1

*40°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON THE MOTOR. THERMOSTAT IN STATOR WILL OPEN IF STATOR TEMPERATURE EXCEEDS 135°C. THIS WILL GIVE YOU ~10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS. MOTOR MOUNTED ON A 450 X 450 X 25MM ALUMINUM HEATSINK.



130MM - 2 STK
230V/KE-31/MET/2048/CONN