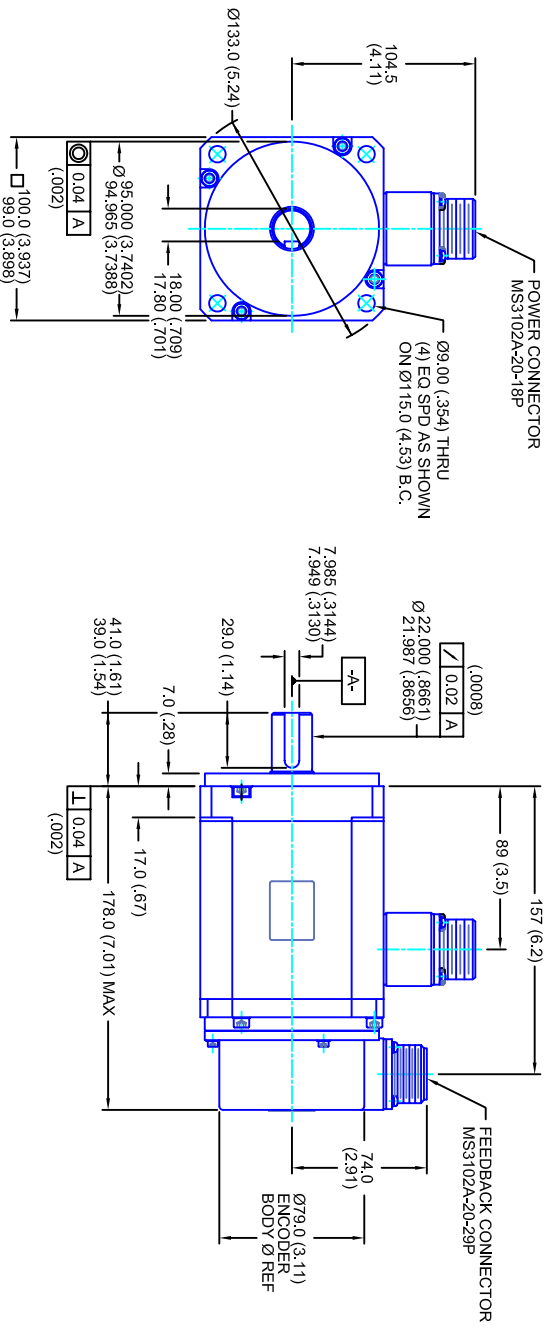


REVISIONS			
REV	DESCRIPTION	DATE	APPD
2	RELEASE DRAWING	4/8/04	



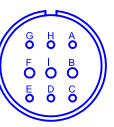
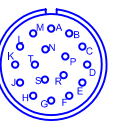
- MOTOR NOTES:**
1. MILLIMETERS (INCHES)
  2. AXIAL LOAD: 10 KG [ 22 LBS ] MAX
  3. RADIAL LOAD: 50 KG [ 110 LBS ] MAX @ 20MM [ .79 ] FROM FACE
  4. MOTOR SEALED TO IP65; EXCEPT THE PART WITH CONN & OIL SEAL
  5. MOTOR SHAFT: SCM440H STEEL
  6. OIL SEAL: 024 ( .95 ) PROTRUDES FROM FEC 1.0 ( .04 )
  7. MOTOR FINISH: SEMI GLOSS BLACK
  8. MOTOR WEIGHT 5.7 KG [ 12.6 LBS ]

**ELECTRICAL DATA**

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	2.3
KILOWATTS	KW	1.7
MAX OPERATING SPEED	RPM	4500
SPEED @ RATED TORQUE	RPM	3450
*CONTINUOUS RATED TORQUE @ 3450 RPM	IN-LBS[INm]	42.5[4.8]
*CONTINUOUS STALL TORQUE	IN-LBS[INm]	46.8[5.3]
*CONTINUOUS LINE CURRENT	AMPS[RMS] [φ]	8.4
PEAK TORQUE	IN-LBS[INm]	126.6[14.3]
PEAK CURRENT	AMPS[RMS] [φ]	25.2
MAX THEORETICAL ACCEL.	RAD/SEC <sup>2</sup>	28,773
TORQUE SENSITIVITY	Kt [N-BS/AMP/RMS] [INm/AMP/RMS] [φ]	5.1[.58]
BACK EMF (LINE TO LINE)	Vrms/Krpm	32.2
D.C. RESISTANCE (P-P)	OHMS	1.0
INDUCTANCE (P-P)	MILLIHENRIES	4.7
ROTOR INERTIA	IN-LBS-IN <sup>2</sup> [Kg-M <sup>2</sup> ]	.0044[.00050]
STATIC FRICTION	TT	1.5[.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	BLK
B	φW	BLK
C	THERM	-
D	-	-
E	PE GND	GRN/YEL
F	φU	RED
G	-	-
H	-	-
I	φV	WHT

**TOLERANCES UNLESS SPECIFIED**

SURFACE FINISH:	= H12	✓
BORE:	= H7	✓
DECIMAL .xxx	± .12 (0.05)	
DECIMAL .xx	± .25 (0.10)	
DECIMAL .x	± .51 (0.20)	
ANGLE	± .40 (0.16)	
ANGLE (MM INCHES)	± .030	

**REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN**

CUSTOM MOTORS INC

100MM - 2 STK

230V/KE-32/MET/2048/CONN

CUSTOMER: TS4815N122ZE235 DRAWING NO. CM1002Q32MK2048CT

SCALE: 1/2:1 DATE: 1/17/04 DRAWING NO. CM1002Q32MK2048CT REV. 2

