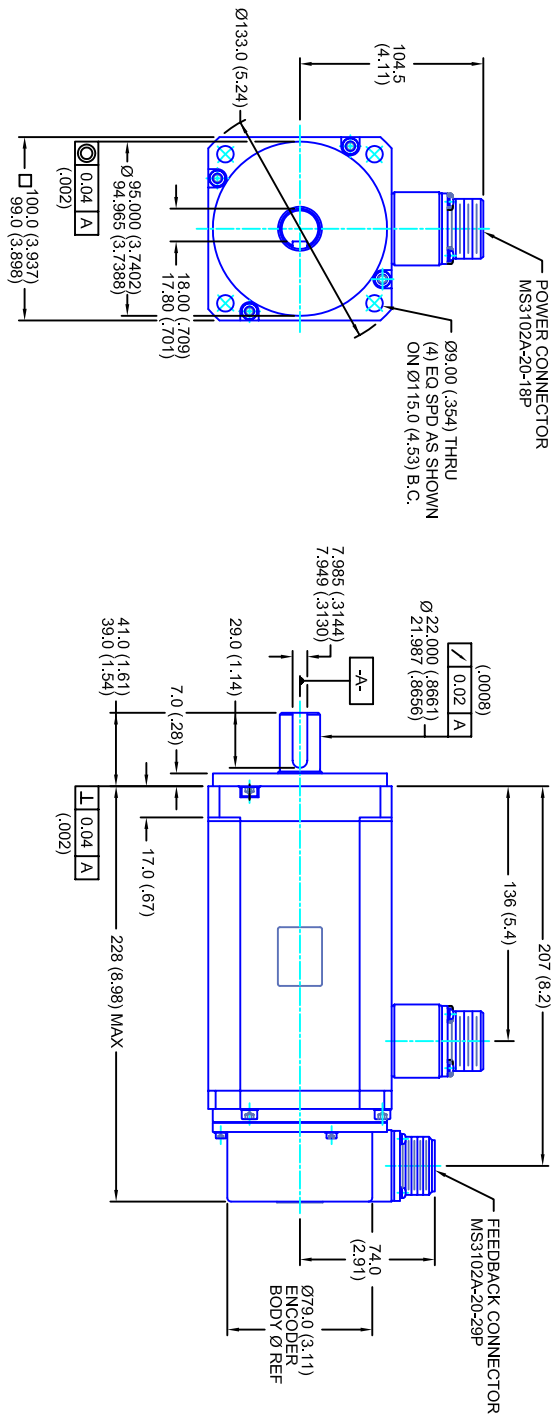


REVISIONS			
REV	DESCRIPTION	DATE	APPD
1	RELEASE DRAWING	4/8/04	

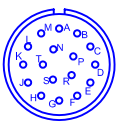


- MOTOR NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 10 KG [22 LBS] MAX
 3. RADIAL LOAD: 50 KG [110 LBS] MAX @ 20MM [.79] FROM FACE
 4. MOTOR SEALED TO IP65; EXCEPT THE PART WITH CONN & OIL SEAL
 5. MOTOR SHAFT: SCM440H STEEL
 6. OIL SEAL: Ø24 (.95) PROTRUDES FROM FEC 1.10 (.04)
 7. MOTOR FINISH: SEMI-GLOSS BLACK
 8. MOTOR WEIGHT: 8.2 LBS [18.1 KJ]

ELECTRICAL DATA

MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	230
AMP TYPE	-	SINE
HORSEPOWER	HP	3.3
KILOWATTS	KW	2.5
MAX OPERATING SPEED	RPM	4500
SPEED @ RATED TORQUE	RPM	2.5
*CONTINUOUS RATED TORQUE @ 3450 RPM	IN-LBS[INM]	60.2[6.8]
*CONTINUOUS STALL TORQUE	IN-LBS[INM]	66.2[7.5]
*CONTINUOUS LINE CURRENT	AMPS[RMS] (Φ)	11.0
PEAK TORQUE	IN-LBS[INM]	169.9[19.2]
PEAK CURRENT	AMPS[RMS] (Φ)	33.0
MAX THEORETICAL ACCEL.	RAD/SEC ²	29,293
TORQUE SENSITIVITY	KI [N-SS/AMP/RMS] (Φ) [IN-AMP/RMS] (Φ)	5.5[.62]
BACK EMF (LINE TO LINE)	Vrms/Krpm	34.4
D.C. RESISTANCE (P-P)	OHMS	.77
INDUCTANCE (P-P)	MILLIHENRIES	3.5
ROTOR INERTIA	IN-LBS-SEC ² [KG-M ²]	.0058[.00065]
STATIC FRICTION	TT	1.5[.17]

ENCODER INFO:
5V - 2048L COMMUTATING



CONNECTION CHART
MS3102A-20-29P

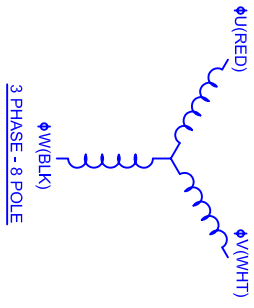
PIN	WIRE FUNCTION	WIRE COLOR
A	CH A	BLU
B	CH A/1	BLU/BLK
C	CH B	GRN
D	CH B/1	GRN/BLK
E	-	-
F	CH Z	YEL
G	CH Z/1	YEL/BLK
H	CH U	BRN
J	CH V/1	BRN/BLK
K	CH V	GRY
L	CH W/1	GRY/BLK
M	CH W	WHT
N	CH W/2	WHT
P	CASE GND	-
R	GND	BLK
S	+5VDC	RED
T	CH W/1	WHT/BLK



MS3102A-20-18P

PIN	WIRE FUNCTION	WIRE COLOR
A	THERM	-
B	Φ W	BLK
C	THERM	-
D	-	-
E	PE GND	GRN/YEL
F	Φ U	RED
G	BRK	-
H	BRK	-
I	Φ V	WHT

- BRAKE INFO:**
- INPUT VOLTAGE: 24 VDC
 - HOLDING FORCE: 9 .3 Nm [82 IN-LBS]
 - CURRENT DRAW: .75 AMPS
 - RELEASING TIME: 20 ms MAX



CUSTOM MOTORS INC

100MM - 3 STK
230V/KE=34/MET/2048/CONN/BRK

TOLERANCES UNLESS SPECIFIED	
BORE:	= H7
SHAFT:	= H7
DECNAL .xxx	= .12 (.005)
DECNAL .xx	= .25 (.010)
DECNAL .x	= .51 (.020)
ANGLE	= .030
REMOVE ALL BURRS/BREAK SHARP EDGES AS SHOWN	
FINISH:	AS SHOWN
SCALE	1/2:1
DATE	1/17/04
DRAWING NO.	CM1003Q34MK2048CTB
CUSTOMER:	TS4817N6227E235
DRAWN:	DFLA
SHEET:	1 OF 1
REV.	1