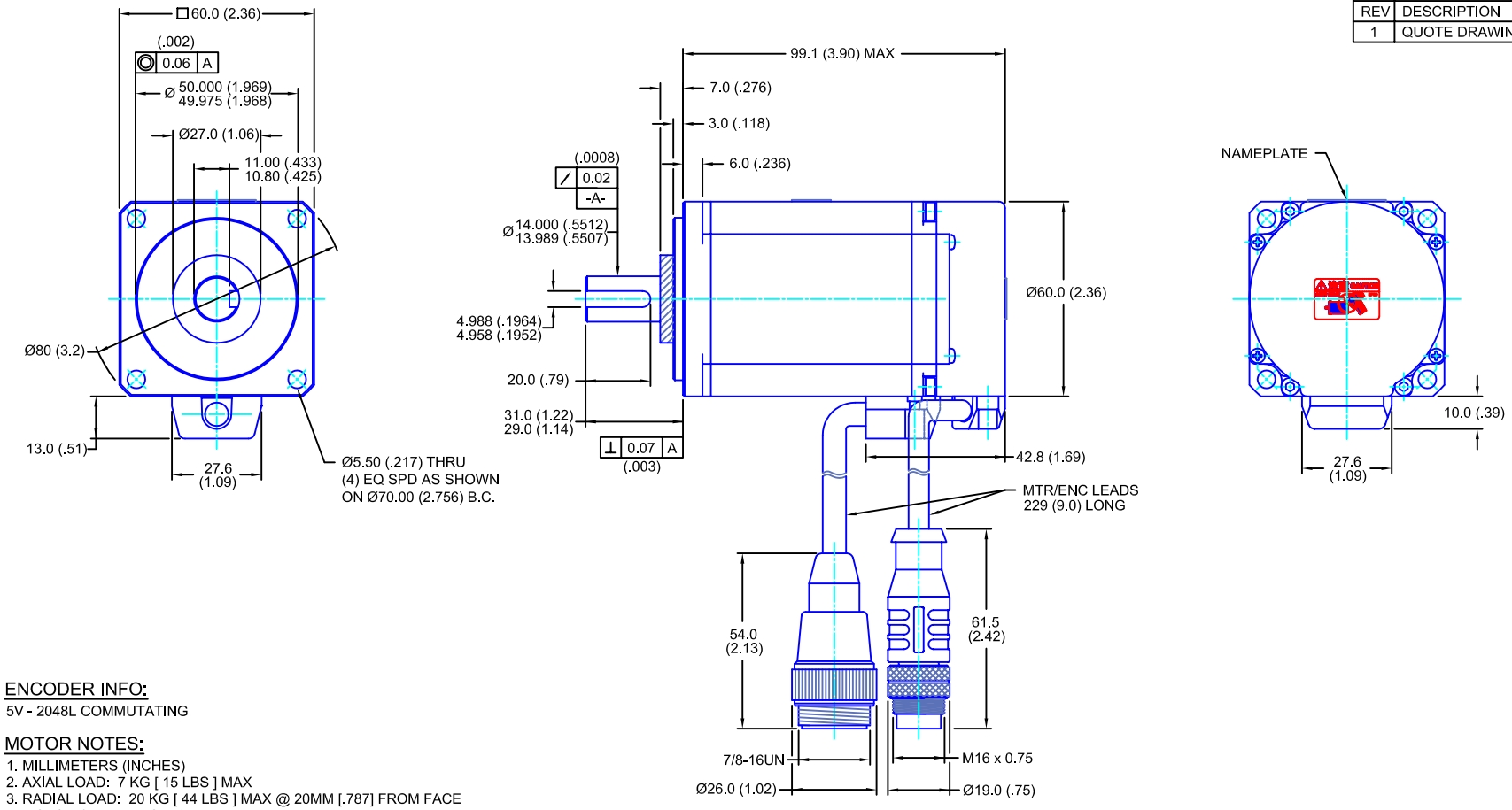
REVISIONS			
REV	DESCRIPTION	DATE	APP'D
1	QUOTE DRAWING	11/3/04	



ENCODER INFO:

5V - 2048L COMMUTATING

MOTOR NOTES:

1. MILLIMETERS (INCHES)
2. AXIAL LOAD: 7 KG [15 LBS] MAX
3. RADIAL LOAD: 20 KG [44 LBS] MAX @ 20MM [.787] FROM FACE
4. MOTOR SEALED TO IP65
5. MOTOR SHAFT: S45C STEEL
6. MOTOR FINISH: SEMIGLOSS BLACK
7. MOTOR WEIGHT: 1.3 KG [2.9 LBS]

ELECTRICAL DATA			
MOTOR PARAMETERS		UNITS/MEASURE	VALUES
VOLTAGE		VOLTS-AC	230
AMP TYPE		-	SINE
HORSEPOWER		Hp	.53
KILOWATTS		KW	.40
MAX OPERATING SPEED		RPM	5000
SPEED @ RATED TORQUE		RPM	3000
*CONTINUOUS RATED TORQUE @ 3000 RPM		IN-LBS[Nm]	11.2[1.27]
*CONTINUOUS STALL TORQUE		IN-LBS[Nm]	12.4[1.40]
CONTINUOUS LINE CURRENT		AMPS(RMS/ϕ)	3.3
PEAK TORQUE		IN-LBS[Nm]	33.8[3.82]
PEAK CURRENT		AMPS(RMS/ϕ)	9.9
MAX THEORETICAL ACCEL.		RAD/SEC^2	112,667
TORQUE SENSITIVITY	Kt	IN-LBS/AMP(RMS/ϕ)[Nm/AMP(RMS/ϕ)]	3.4[.38]
BACK EMF (LINE TO LINE)	±10%	Vrms/Krpm	21.3
D.C. RESISTANCE (P-P)	±10%	OHMS	3.1
INDUCTANCE (P-P)	±10%	MILLIHENRIES	11
ROTOR INERTIA	Jm	IN-LBS-SEC^2[Kg-M^2]	.00030[.000034]
STATIC FRICTION	Tf	IN-LBS[Nm] MAX	.35[.040]

*40°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON THE MOTOR.
MOTOR MOUNTED ON A 305 X 305 X 12MM ALUMINUM HEATSINK.

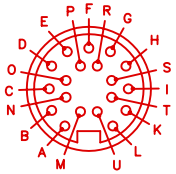
CONNECTION CHART

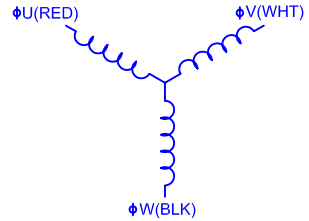
TURCK -> BSM 19

FEEDBACK WIRE LEADS		
PIN	WIRE FUNCTION	WIRE COLOR
A	CH A	BLU
B	CH B	GRN
C	CH Z	YEL
D	CH UE	BRN
E	CH VE	GRY
F	CH WE	WHT
G	+5Vdc	RED
H	CH A\	BLU/BLK
I	CH B\	GRN/BLK
K	CH Z\	YEL/BLK
L	CH UE\	BRN/BLK
M	CH VE\	GRY/BLK
O	CH WE\	WHT/BLK
P	0V	BLK
R	SHLD	SHLD
N	NC	NC
S	NC	NC
T	NC	NC
U	NC	NC

TURCK -> RSM 61

MOTOR WIRE LEADS		
PIN	WIRE FUNCTION	WIRE COLOR
1	ϕU	RED
2	ϕV	WHT
6	ϕW	BLK
3	PE GND	GRN/YEL
4	-	-
5	-	-





3 PHASE - 8 POLE

TOLERANCES UNLESS SPECIFIED
SURFACE FINISH: = 63 Ra ✓
BORE: = H12
SHAFT: = h12
DECIMAL .XXX ± .13 (.005)
DECIMAL .XX ± .25 (.010)
DECIMAL .X ± .51 (.020)
FRACTION ± .40 (.016)
ANGLES ± 0°30'
MM (INCHES)

REMOVE ALL BURRS. BREAK SHARP EDGES .25MM (.010") OR 45° CHAMFER

FINISH:

MATERIAL:

CUSTOM MOTORS INC

60MM - 3 STK
230V/KE=21/MET/2048/MOLDED

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CUSTOMER: U0983-28 | DRAWN: DFLA | SHEET: 1 OF 1

SCALE	DATE	DRAWING NO.	REV.
1:1	10/21/04	CM603Q21MK2048M	1