



PARAMETER	UNITS	MT30M4-38
GENERAL		
VOLTAGE GRADIENT -- NO LOAD	VOLTS/1000 RPM*	38
MAX TERMINAL VOLTAGE	VOLTS	140
MAX SPEED	RPM	3700
CONTINUOUS STALL TORQUE TENV**	Nm	3.0
	LB-IN	28
CONT. STALL TORQUE BLOWER COOLED***	Nm	5.5
	LB-IN	48
CONTINUOUS STALL CURRENT TENV**	AMPS	8.6
ARMATURE POLAR MOMENT OF INERTIA	Kgm ²	0.0017
	LB-IN SEC ²	0.018
TORQUE CONSTANT KT**	Nm/AMP*	0.35
	LB-IN/AMP*	3.1
VOLTAGE CONSTANT KV**	VOLTS SEC RAD**	0.35
PEAK STALL TORQUE**	Nm	14
	LB-IN	124
CURRENT AT PEAK TORQUE**	AMPS	47
THEORETICAL ACCEL. AT PEAK TORQUE	RAD/SEC ²	8200
WINDING		
ARMATURE RESISTANCE LESS BRUSHES**	OHMS*	0.82
ARMATURE INDUCTANCE	MILLIHENRYS*	6.5
MECHANICAL TIME CONSTANT**	MILLISECONDS	18
THERMAL		
INSULATION CLASS		F
MAX. AMBIENT TEMPERATURE	°C (°F)	40 (104)
THERMAL TIME CONSTANT	MINUTES*	50
MECHANICAL		
STATIC FRICTION TORQUE	Nm	0.15
	LB-IN	1.3
MOTOR WEIGHT	Kg	7.3
	LB	16
TACHOMETER		
VOLTAGE GRADIENT	VOLTS/1000 RPM*	7
	VOLTS SEC RAD**	0.057
RIPPLE	PER CENT	1.0
	CYCLES/REV	25
ARMATURE RESISTANCE**	OHMS	24
ARMATURE INDUCTANCE	MILLIHENRYS*	38
MAXIMUM CURRENT	AMPS	0.035

AMP CONNECTOR PIN DESIGNATION		
FUNCTION	COLOR	PIN
MOTOR (+)	RED	2
MOTOR (-)	BLACK	1
MOTOR GROUND	GREEN	8
TACH (+)	RED	4
TACH (-)	BLACK	3
CHANNEL A	BROWN *	9
CHANNEL X	YELLOW *	14
CHANNEL B	RED *	10
CHANNEL Y	GREEN *	15
CHANNEL Z	ORANGE *	12
CHANNEL Z	BLUE *	16
+5 V AT 100 MA	WHITE *	11
GROUND	BLACK *	13
SHIELD	GREY *	7

* OR COLOR DESIGNATED ON ENCODER

- NOTES:
- MOTOR TO HAVE 200 LINE PPR ENCODER.
 - SEE PPA FOR VENDOR INFORMATION.
 - MOTOR SHAFT ROTATION IS C.C.W. WHEN OBSERVING MOTOR WHILE FACING MOTOR MOUNTING FACE WITH A POSITIVE VOLTAGE ON RED (+) PIN 1 WITH RESPECT BLACK (-) PIN 2.

* TOLERANCE PLUS OR MINUS 10%
 ** AT 25° C (77° F)
 *** AT 40° C (104° F) AMBIENT

SEM MT 30 M4-38		QTY.		PART NUMBER		ITEM DESCRIPTION		ITEM
PARTS LIST								
SURFACE TREATMENT				EXCEPT AS NOTED ALL DIMENSIONS MUST BE AS FOLLOWS		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT				.005" X 45° OR 06° R MAX OUTSIDES 0.005" X 45° OR 06° R		.0000 ±.0000 ANGULAR ± 0.20°		
FIRST USED ON				EXCEPT AS NOTED TOLERANCE MUST BE AS FOLLOWS		THIRD ANGLE PROJECTION		DESCRIPTION: MOTOR, SERVO DC W/ 200 PPR ENCODER DRAWN: G.H. DATE: 11-13-01 CHECKED: K.P. DATE: 11-15-01 APPROVED: DDC DATE: 11-15-01
B 14743 REDRAWN TO MATCH NEW PPA & NEW VENDOR				001-2007-001		SCALE: 1:1 UNITS: INCHES EA		SIZE: D DRAWING: 001-1409-003 SHEET: 1 OF 1 REV: B