

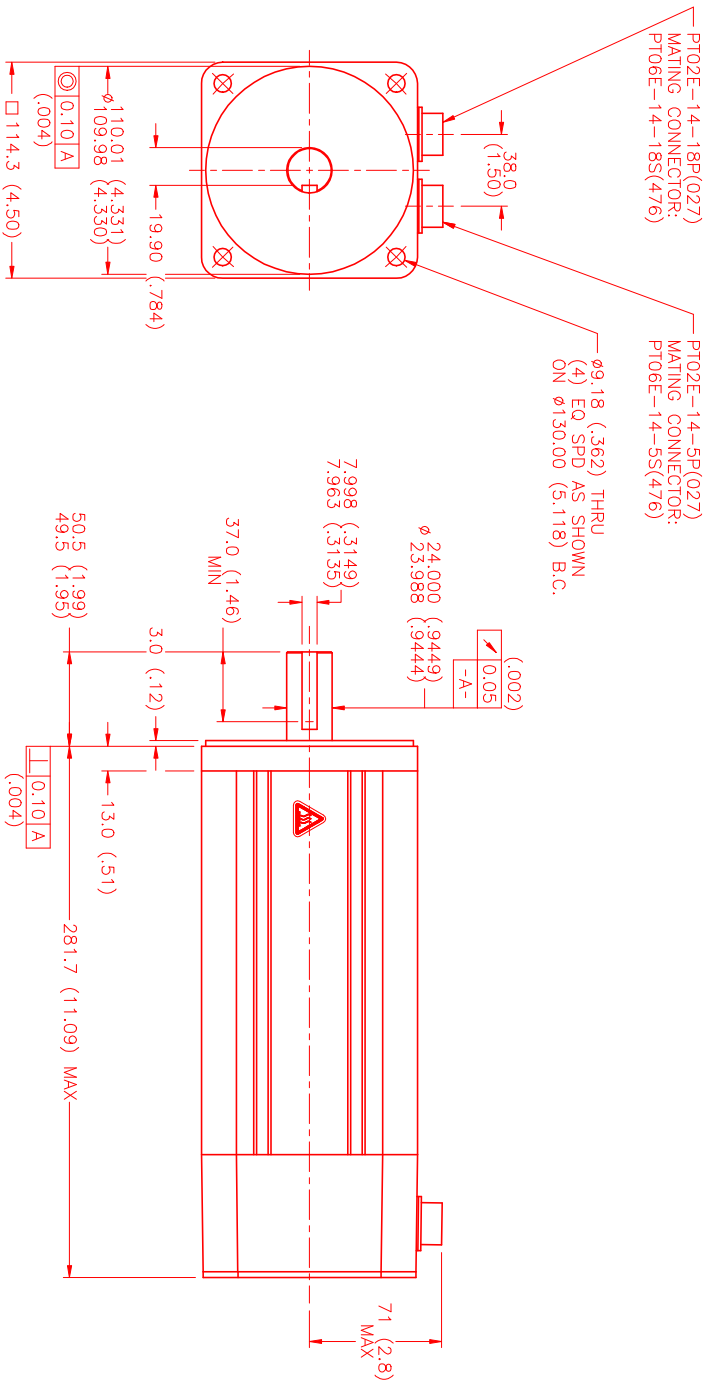
MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP RATED	1.8
KILOWATTS	KW RATED	1.33
MAX. OPERATING SPEED	N MAX RPM	2100
SPEED @ RATED TORQUE	N RATED RPM	1500
* CONTINUOUS RATED TORQUE	N-LEBS [Nm]	75.0 [8.4]
* CONTINUOUS STALL TORQUE	N-LEBS [Nm]	83.0 [9.3]
CONTINUOUS LINE CURRENT	AMPS (RMS/φ)	4.7
PEAK CURRENT	N-LEBS [Nm]	290.5 [32.7]
MAX. THEORETICAL ACCEL.	AMPS (RMS/φ)	16.5
TORQUE SENSITIVITY	RAD/SEC ²	44.015
BACK EMF (LINE TO LINE)	Vrms (RMS/φ)	17.5 [1.98]
D.C. RESISTANCE (P-P)	OHMS	110.0
INDUCTANCE (P-P)	MILLIHENRIES	12.6
ROTOR INERTIA	Jm [N-LBS-SEC ²] Kg-M ²	.0066 [0.00074]
STATIC FRICTION	Tf [N-LBS] [Nm]	1.4 [1.16]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 12" X 12" X 1/2" ALUMINUM HEATSINK. THERMOSTAT IN STATOR WINDINGS WILL OPEN IF WINDING TEMPERATURE EXCEEDS 155°C. THIS ALLOWS FOR AN APPROXIMATE +10% HEADROOM IN THE CONTINUOUS TORQUE RATING BEFORE THERMOSTAT OPENS.

MECHANICAL NOTES:

1. AXIAL LOAD: 50 LBS MAX
2. RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
3. MOTOR SEALED TO IP65.
4. MOTOR WEIGHT: 26.6 LBS [12.1 Kg]
5. MOTOR FINISH: BLACK EPOXY
6. MOTOR OUTPUT SHAFT: STAINLESS STEEL
7. MILLIMETERS (INCHES)



CONNECTION CHART

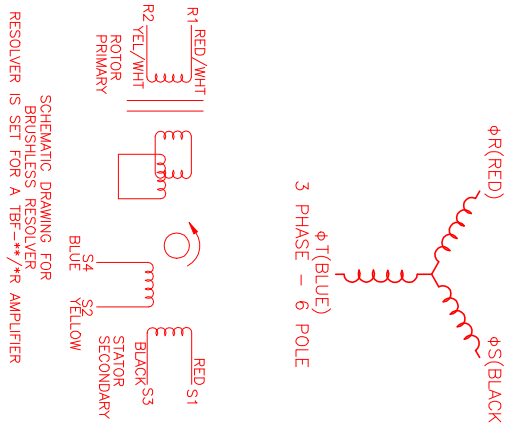
RESOLVER/THERM CONNECTOR: PT02E-14-18P(027) (270-00024)

PIN	WIRE FUNCTION	WIRE COLOR	WIRE LEADS
U	THERM	BLACK	
N	THERM	BLACK	
H	SIN	YELLOW	
G	COS GND	BLACK	
S	COS	RED	
F	SIN GND	BLUE	
R	REF GND	YEL/WHIT	
E	REF	RED/WHIT	
D	RES SHLD	GRN/YEL	
P	GND	GRN/YEL	
A	-	-	
B	-	-	
C	-	-	
J	-	-	
K	-	-	
L	-	-	
M	-	-	
T	-	-	

MOTOR CONNECTOR:

PT02E-14-5P(027) (270-00026)

PIN	WIRE FUNCTION	WIRE COLOR	WIRE LEADS
A	φR	RED	
B	φS	BLACK	
C	φT	BLUE	
D	PE GND	GRN/YEL	
E	-	-	



REV. 1 DESCRIPTION PRELIMINARY

DATE 10/23/01

APPD. LIN

REV. 2

NO. PART NUMBER	DESCRIPTION	QTY.
UNLESS SPECIFIED		
DESIGN: 2004 4 200		
REVISION: 1 4 200		
DATE: 10/17/01		
SCALE: 1/2"		
DRAWN: MS		
CHECKED:		
APPROVED:		
MATERIAL:		
QUANTITY:		
SCALE:		

MTS MTS Systems Corporation
Automation Division

RESOLVER: MPM1142BSG7H1N