

**MOTOR DATA @ 230 VAC (SINE)**

MOTOR PARAMETERS	UNITS	VALUE
MOTOR HORSEPOWER	HP RATED	2.1
	KW RATED	1.6
MAX. OPERATING SPEED	N MAX	4200
* CONTINUOUS RATED TORQUE	N RATED	3000
* CONTINUOUS STALL TORQUE	IN-LBS [Nm]	45.0 [5.1]
CONTINUOUS LINE CURRENT	IN-LBS [Nm]	54.0 [6.1]
AMP(S) (RMS/Φ)	AMP(S) (RMS/Φ)	6.2
PEAK CURRENT	189.0 [21.3]	
MAX. THEORETICAL ACCEL	AMP(S) (RMS/Φ)	21.6
TORQUE SENSITIVITY	RD/SEC*	48.487
BACK EMF (LINE TO LINE)	Kt IN-LBS/AMP(RMS/Φ)	8.810,991
D.C. RESISTANCE (P-P)	Vrms/Krpm	55.0
INDUCTANCE	OHMS	0.82
ROTOR INERTIA W/BRAKE	MILLIHENRIES	6.1
STATIC FRICTION	Jm IN-LBS-SEC <sup>2</sup> [Kg-M <sup>2</sup> ]	.00391,00044
	Tf IN-LBS [Nm]	1.0 [1.1]

\*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:**
- AXIAL LOAD: 50 LBS MAX
  - RADIAL LOAD: 100 LBS MAX @ 1" FROM FACE
  - MOTOR SEALED TO IP65.
  - MOTOR WEIGHT: 26.4 LBS. [12.0 Kg]
  - MOTOR FINISH: BLACK EPOXY
  - MOTOR OUTPUT SHAFT: STAINLESS STEEL
  - MILLIMETERS (INCHES)

**FAILURE BRAKE:**  
MIN HOLDING TORQUE: 240 IN-LBS  
INPUT VOLTAGE: 24 VOLTS

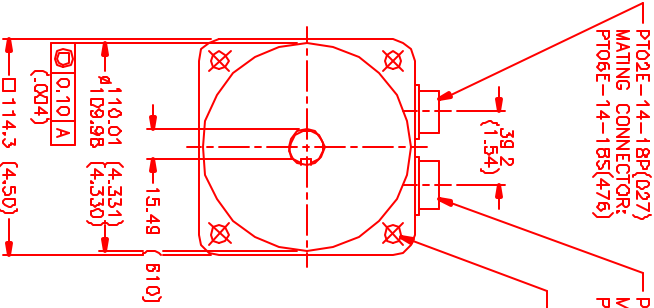
**CONNECTION CHART**

MOTOR/BRAKE CONNECTOR:  
PT02E-18-8P(027)  
(270-00032)

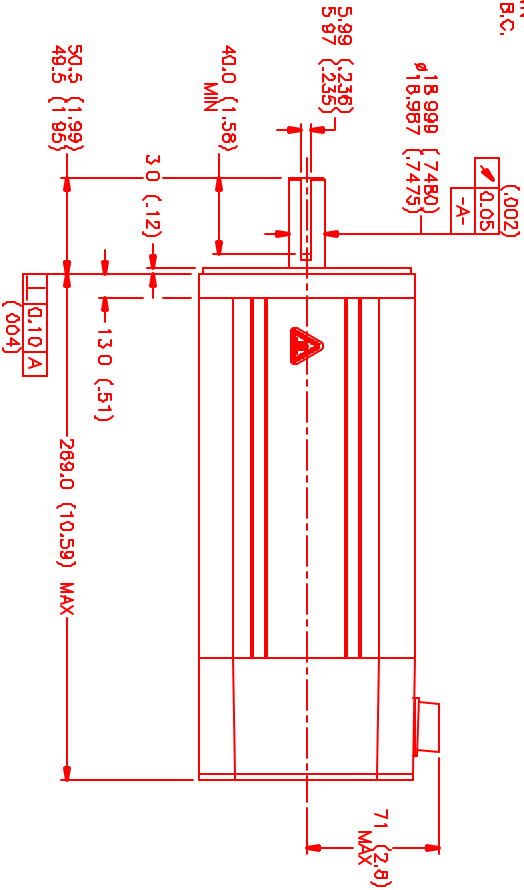
RESOLVER/THERM CONNECTOR:  
PT02E-14-18P(027)  
(270-00024)

MOTOR/BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	ΦR	RED
B	ΦS	BLACK
C	ΦT	BLUE
D	PE SHLD	GRN/YEL
E	BRK SHLD	-
F	BRK (+)	DIODE
G	BRK (-)	IN4007
H	-	-

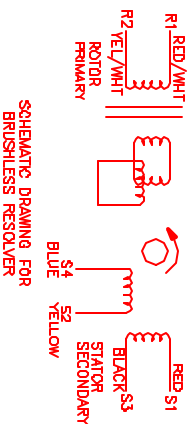
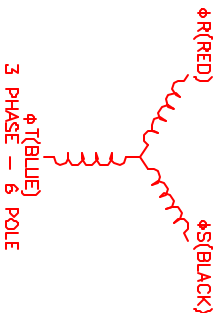
RES/THERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
A	-	-
B	-	-
C	-	-
J	-	-
K	-	-
L	-	-
M	-	-
T	-	-



PT02E-18-8P(027) Mating Connector: PT06E-18-8S(476)  
Φ9.18 (.362) THRU (4) EQ SPD AS SHOWN ON Φ130.00 (5.118) B.C.



REV	DESCRIPTION	DATE	APP'D.
1	PRELIMINARY	2/28/01	MVS



SCHEMATIC DRAWING FOR BRUSHLESS RESOLVER

NO.	PART NUMBER	DESCRIPTION	QTY.
1	MVS	MVS Systems Corporation Automation Division	
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