

MOTOR DATA @ 230 VAC (SINE)

MOTOR PARAMETERS	UNITS	VALUE
HORSEPOWER	HP	0.31
KILOWATTS	KW	0.38
MAX. OPERATING SPEED	N. MAX RPM	5000
SPEED @ RATED TORQUE	N RATED RPM	4000
* CONTINUOUS RATED TORQUE @ 4000 RPM	N-LBS[Nm]	8.0[0.90]
* CONTINUOUS STALL TORQUE	N-LBS[Nm]	12.0[1.40]
CONTINUOUS LINE CURRENT	AMPS[RMS/φ]	2.1
PEAK TORQUE	N-LBS[Nm]	36.0[4.1]
PEAK CURRENT	AMPS[RMS/φ]	6.4
MAX. THEORETICAL ACCEL.	RAD/SEC ²	84,309
TORQUE SENSITIVITY	Kt N-LBS/AMPERE/φ[Nm/AMPERE/φ]	5.9[0.67]
BACK EMF (LINE TO LINE)	Vrms/Krpm	37.0
D.C. RESISTANCE (P-P)	OHMS	11.1
INDUCTANCE (P-P)	MILLIHENRIES	24.0
ROTOR INERTIA	Jm [N-LBS-SEC ²] [Kg-M ²]	0.000427[0.0000482]
STATIC FRICTION	Tf [N-LBS][Nm]	0.3[0.03]

*25°C AMBIENT WITH A MAXIMUM CASE TEMPERATURE OF 100°C ON MOTOR. MOTOR MOUNTED ON A 10" X 10" X 10" X 1/4" 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: 25 LBS MAX
- RADIAL LOAD: 40 LBS MAX @ 1" FROM FACE
- MOTOR SEALED TO IP65.
- MOTOR WEIGHT: - LBS. [- Kg]
- MOTOR FINISH: BLACK EPOXY
- MOTOR OUTPUT SHAFT: STAINLESS STEEL
- INCHES (MILLIMETERS)

FAILSAFE BRAKE:

MIN HOLDING TORQUE: 60 IN-LBS
INPUT VOLTAGE: 24 VOLTS

CONNECTION CHART

MOTOR/BRAKE WIRE LEADS	WIRE FUNCTION	WIRE COLOR
S10	BRK (-)	BLUE
S11	BRK (+)	BLUE
S12	PE GND	GRN/YEL
S13	φS	BLACK
S14	φR	RED
S15	φT	YELLOW
S16	φS	BLACK
S17	SIN	YELLOW
S18	REF GND	RED/WHIT
S19	REF GND	YEL/WHIT
S20	φS	BLACK
S21	φR	RED
S22	φT	YELLOW
S23	φS	BLACK
S24	SIN GND	BLUE
S25	COS GND	BLACK
S26	COS	RED
S27	SIN	YELLOW
S28	REF	RED/WHIT
S29	REF GND	YEL/WHIT
S30	φS	BLACK
S31	φR	RED
S32	φT	YELLOW
S33	φS	BLACK
S34	SIN GND	BLUE
S35	COS GND	BLACK
S36	COS	RED
S37	SIN	YELLOW
S38	REF	RED/WHIT
S39	REF GND	YEL/WHIT
S40	φS	BLACK
S41	φR	RED
S42	φT	YELLOW
S43	φS	BLACK
S44	SIN GND	BLUE
S45	COS GND	BLACK
S46	COS	RED
S47	SIN	YELLOW
S48	REF	RED/WHIT
S49	REF GND	YEL/WHIT
S50	φS	BLACK
S51	φR	RED
S52	φT	YELLOW
S53	φS	BLACK
S54	SIN GND	BLUE
S55	COS GND	BLACK
S56	COS	RED
S57	SIN	YELLOW
S58	REF	RED/WHIT
S59	REF GND	YEL/WHIT
S60	φS	BLACK
S61	φR	RED
S62	φT	YELLOW
S63	φS	BLACK
S64	SIN GND	BLUE
S65	COS GND	BLACK
S66	COS	RED
S67	SIN	YELLOW
S68	REF	RED/WHIT
S69	REF GND	YEL/WHIT
S70	φS	BLACK
S71	φR	RED
S72	φT	YELLOW
S73	φS	BLACK
S74	SIN GND	BLUE
S75	COS GND	BLACK
S76	COS	RED
S77	SIN	YELLOW
S78	REF	RED/WHIT
S79	REF GND	YEL/WHIT
S80	φS	BLACK
S81	φR	RED
S82	φT	YELLOW
S83	φS	BLACK
S84	SIN GND	BLUE
S85	COS GND	BLACK
S86	COS	RED
S87	SIN	YELLOW
S88	REF	RED/WHIT
S89	REF GND	YEL/WHIT
S90	φS	BLACK
S91	φR	RED
S92	φT	YELLOW
S93	φS	BLACK
S94	SIN GND	BLUE
S95	COS GND	BLACK
S96	COS	RED
S97	SIN	YELLOW
S98	REF	RED/WHIT
S99	REF GND	YEL/WHIT
S100	φS	BLACK
S101	φR	RED
S102	φT	YELLOW
S103	φS	BLACK
S104	SIN GND	BLUE
S105	COS GND	BLACK
S106	COS	RED
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S108	REF	RED/WHIT
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