



WORLDWIDE ELECTRIC MOTOR DATA SHEET



EP100-36-405TS

HORSEPOWER	100		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	405TS		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ Suitable For 50 HZ Operation With 1.0 SF		
FULL LOAD SPEED	3580 RPM		
SERVICE FACTOR	1.25 SF at 40° C / 1.0 SF at 55° C		
INSULATION CLASS	F		
FULL LOAD AMPS; 230 / 460	221.4 / 110.7 A		
LOCKED ROTOR AMPS (STARTING); 230 / 460	1450 / 725 A		
NO LOAD CURRENT	64.4 / 32.2 A		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100%	94.2%	0.90
	75%	94.1%	0.88
	50%	93.0%	0.82
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	146.7 lb.ft.	190%	275%
SLIP	0.52%		
NEMA DESIGN	B		
MOMENT OF INERTIA	19.69 lb.ft. ²		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C at 1.25 SF / 55° C at 1.0 SF		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DE BEARING	6313		
ODE BEARING	6313		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable)		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	1007 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
TEMPERATURE CODE AT 40°C AMBIENT	T3A		
TEMPERATURE CODE AT 55°C AMBIENT	T3		
INVERTER RATING	10:1 CT / 20:1 VT PWM Type		
SPECIFICATION - In Accordance With	NEMA, CSA		



CC067A





WORLDWIDE ELECTRIC MOTOR DRAWING

EP-405TS



DIMENSIONS - INCHES

MOUNTING					A	B	C	D	G	J	P	L	AB
E	2F1	2F2	H	BA									
8	12.25	13.75	0.81	6.62	19.29	17.8	35.3	10	1.18	3.15	21.73	23.46	18.11

KEY		KEYSET	SHAFT		TERMINAL BOX				
S	ES	R	N-W	U	AA	XB	XC	XD	XE
0.5	2.78	1.845	4.25	2.125	3	4.57	11.73	9.76	12.48