



PE405T-100-4C

CRUSHER DUTY ELECTRIC MOTOR

NEMA PREMIUM EFFICIENCY

TOTALLY ENCLOSED FAN COOLED

INVERTER DUTY 10:1 CT; 20:1 VT - NEMA MG1 PART 31

Factory Certified for T2B Class I, Division II, Groups A,B,C & D and Class II, Division II, Groups F & G



DIMENSIONS

HP	RPM	Frame	MOUNTING														
			A	B	C	D	G	H	J	E	2E	2F1	2F2	O	P	T	BA
100	1800	405T	19.3	19.9	40	10	1.25	0.81	3.15	8	16	12.25	13.75	21.1	21.6	2.6	6.62

Shaft Extension, Key Set						Conduit Box		Bearings		Mount
U	V	R	S	ES	N-W	AA	AB	DE	ODE	
2.875	7	2.45	0.75	5.65	7.25	3	16.6	NU318	6314	F1

BEARING LUBRICATION: The bearings come lubricated with Mobil Polyrex EM Polyurea Grease. It is recommended that you add some additional lubrication when the motor is installed.

Three options (brands) for suitable lubrication include, but are not limited to, the following:

- 1.) Mobil Polyrex EM
- 2.) Citco Polyurea MP
- 3.) Conoco Phillips Polytac EP





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PERFORMANCE DATA

HP	RPM	Frame	Voltage	Frequency (Hz)	Full Load S.F.	Insulation Class	NEMA Design	Slip (%)	NEMA Code	Enclosure Type	IP Rating	Max. Ambient
100	1785	405T	230/460	60	1.15	F	C	0.8	G	TEFC	55	40 °C

Amps (460V)		Efficiency (%)			Power Factor			Torque (ft-lb)			DE Bearing	ODE Bearing	Connection	Weight (lbs.)
FLA	LRA	100%	75%	50%	100%	75%	50%	FLT	LRT %	BDT %				
112	725	95.4	95.4	95.2	0.87	0.84	0.77	295.17	200	260	NU318	6314	12 Lead 2Δ/Δ	1228

*Usable at 208 Volts

NAME PLATE

		AC INDUCTION MOTOR INVERTER DUTY 20:1 VT; 10:1 CT						CONNECTION DIAGRAMS 230V			
CAT NO. PE405T-100-4C		FRAME 405T		PHASE 3							
HZ 60	S.F. 1.15	HZ 50	S.F. 1.0	ENCL TEFC	IP 55						
HP 100	RPM 1785	HP 100	RPM 1485	DUTY CONT	DES C						
VOLTS 230/460		VOLTS 190/380		AMB 40 °C	INS F						
AMPS 224 / 112	AMPS 274/137		DE BRG NU318								
CODE G	P.F. 0.87	CODE F	P.F. 0.88	ODE BRG 6314							
EFF 95.4	MIN 94.5	EFF 94.1	MIN 93.2	LUB: Mobil Polyrex EM							
MOTOR WEIGHT 1228 LBS	CONNECTION 12 Lead 2Δ/Δ		SER NO								
Special purpose use on crushing and pulverizing equipment.								CC082A			
Hernando, Mississippi						C 272709					

APPLICATIONS:

Special purpose use on crushing and pulverizing equipment. Other industrial machinery requiring extremely high starting torques and breakdown torques. Suitable for use with variable frequency drives.