

PE405TC-100-4

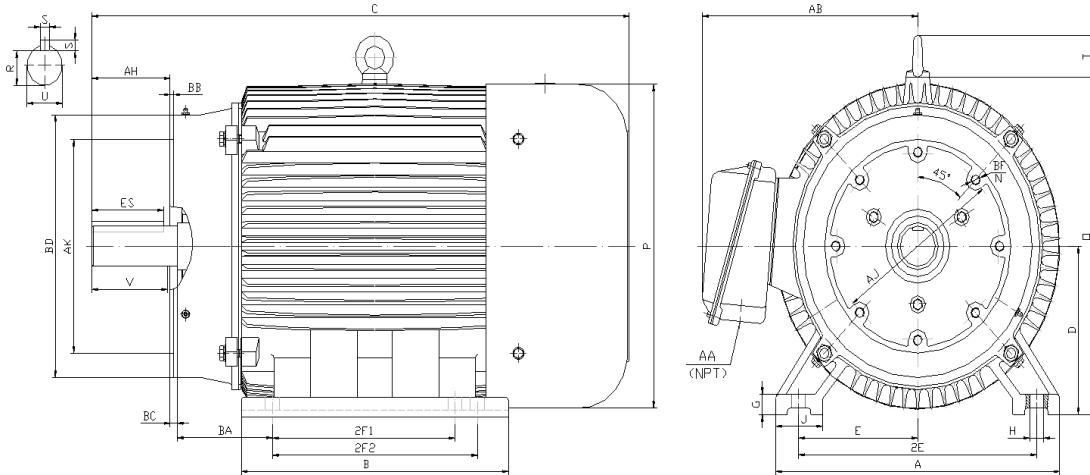
GENERAL PURPOSE ELECTRIC MOTOR

NEMA PREMIUM EFFICIENCY

THREE PHASE, TOTALLY ENCLOSED FAN COOLED - C-FLANGE W/ FEET

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	405TC	19.30	17.90	38.00	10.00	1.18	0.81	3.15	8.00	16.00	12.25	13.75	21.10	21.60	2.60	6.62

FLANGE							Shaft Extension, Key Set						Conduit Box		Bearings		Mount
AH	AJ	AK	BB	BC	BD	BF	U	V	R	S	ES	N-W	AA	AB	DE	ODE	
7.00	11.00	12.50	0.25	0.25	15.50	8*5/8-11	2.88	7.00	2.45	0.75	5.65	NA	3.00	16.60	6318	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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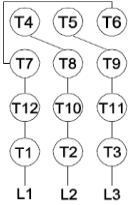



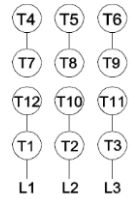
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PERFORMANCE DATA

HP	RPM	Frame	Voltage	Frequency (Hz)	Full Load S.F.	Insulation Class	NEMA Design	Slip (%)	NEMA Code	Enclosure Type	IP Rating	Max. Ambient
100	1790	405TC	208-230/460	60	1.15	F	B	0.6	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%	Min.	100%	75%	50%	FLT	LRT %	BDT %				
112.0	725.0	95.4	95.4	95.2	94.5	0.870	0.840	0.770	295.2	155	240	6318	6314	12 Lead 2Δ/Δ	1228

NAME PLATE

 North American Electric, Inc.													CONNECTION DIAGRAMS 208-230V 										
INVERTER DUTY 20:1 VT; 10:1 CT																							
CAT NO:		PE405TC-100-4				FRAME		405TC		PHASE		3											
HZ		60		S.F.		1.15		HZ		50		S.F.					1.0		ENCL		TEFC		IP
HP		100		RPM		1790		HP		100		RPM		1485		DUTY		CONT		DES		B	
VOLTS		208-230/460				VOLTS		190/380		AMB		40° C		INS		F							
FLA		248 - 224 / 112				FLA		274/137		DE BEARING		6318											
CODE		G		P.F.		0.87		CODE		F		P.F.		0.88		ODE BEARING		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													
General purpose use on industrial machinery installed in damp, dusty or dirty environments. Hernando, Mississippi																CC 082A							

APPLICATIONS:

General purpose use on pumps, fans, blowers, compressors, conveyors, material handling and other industrial machinery installed in damp, dusty or dirty environments.