

## PE405TS-100-4

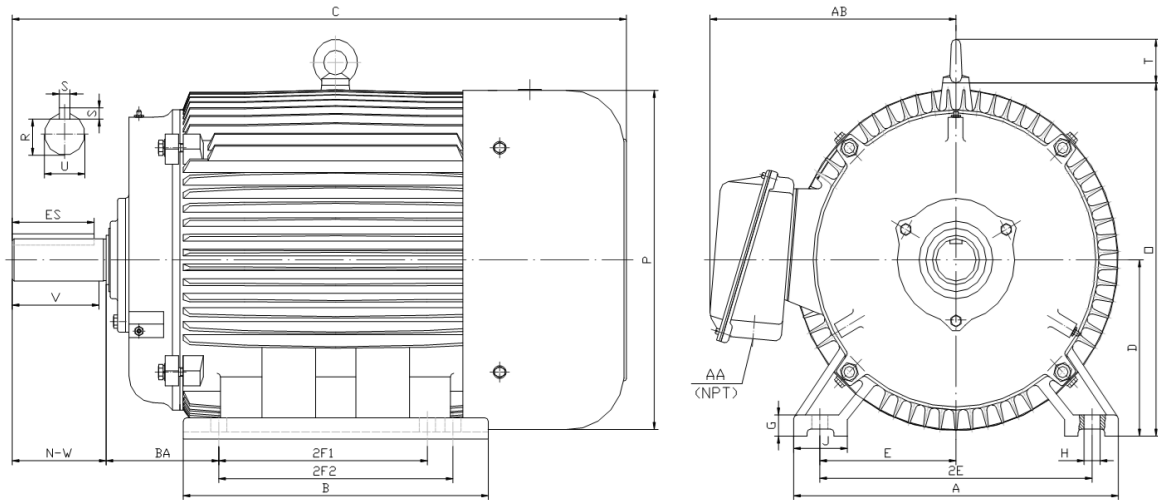
GENERAL PURPOSE ELECTRIC MOTOR

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	405TS	19.30	17.90	35.00	10.00	1.25	0.81	3.15	8.00	16.00	12.25	13.75	21.10	21.60	2.60	6.62

Shaft Extension, Key Set						Conduit Box		Bearings		Mount
U	V	R	S	ES	N-W	AA	AB	DE	ODE	
2.125	4.00	1.845	0.500	2.78	4.25	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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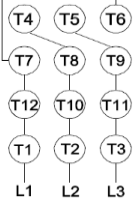
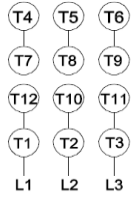



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### PERFORMANCE DATA

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	405TS	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 %	6318	6314	12 Lead 2Δ/Δ	1228
112.0	725	95.4	95.4	95.2	94.5	0.870	0.840	0.770	295.2	155	240				

### NAME PLATE

 <b>North American Electric, Inc.</b>													<b>CONNECTION DIAGRAMS</b> <b>208-230V</b> 				
<b>INVERTER DUTY 20:1 VT; 10:1 CT</b>																	
CAT NO:		PE405TS-100-4			FRAME		405TS		PHASE		3		<b>460V</b> 				
HZ	60	S.F.	1.15	HZ	50	S.F.	1.0	ENCL	TEFC	IP	55						
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.