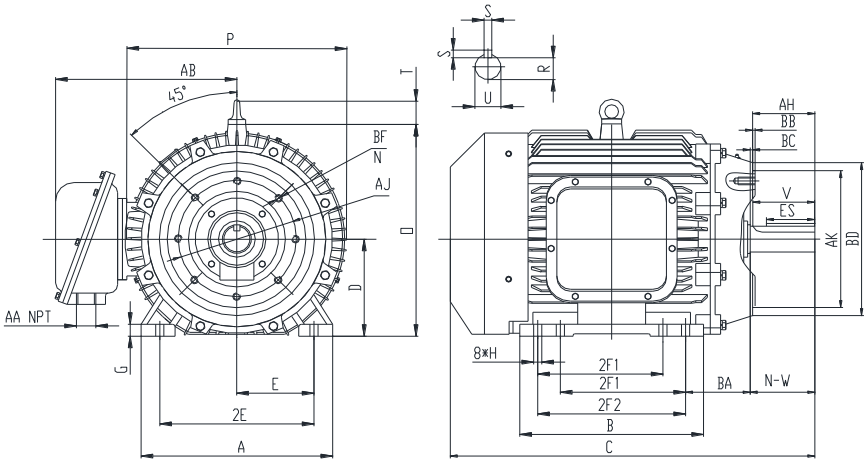
North American Electric

PEXP444TC-125-4

EXPLOSION PROOF ELECTRIC MOTOR
NEMA PREMIUM EFFICIENCY
TOTALLY ENCLOSED FAN COOLED; EXPLOSION PROOF ENCLOSURE - C-FLANGE WITH FEET
CLASS I DIVISION I GROUP C & D; CLASS II DIVISION I GROUP F & G
T3C, with Ambient Temperature Rating: -20° C to 40° C @ 1.15 SF, or 1.0 SF for Inverter Duty
CLASS I DIVISION I GROUP C & D
T2B, with Ambient Temperature Rating: -20° C to 55° C @ 1.15 SF, or 1.0 SF for Inverter Duty



DIMENSIONS

HP	RPM	Frame	MOUNTING														
			A	B	C	D	G	H	J	E	2E	2F1	2F2	O	P	T	BA
125	1800	444TC	21.3	22.05	46.15	11	1.35	0.81	3.74	9	18	14.5	16.5	26.64	25.2	4.81	7.5

FLANGE							Shaft Extension, Key Set					
AH	AJ	AK	BB	BC	BD	BF	U	V	R	S	ES	N-W
8.25	14	16	0.25	0.25	18	8*5/8-11	3.375	8.25	2.88	0.875	6.91	8.5

Conduit Box		Bearings		Mount
AA	AB	DE	ODE	
3	21.26	6318/C3	6314/C3	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

ISO9001 CERTIFIED

NEMA Premium

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PO Box 130 350 Vaiden Drive Hernando, MS 38632-0130
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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	Oper Temp Code	Max. KVAR
125	1785	444TC	460	60	1.15	F	B	0.8	G	TEXP	55	40 °C	T3C	25.1

Amps (460V)		Max. Amps (208V)	Efficiency (%)			Power Factor			Torque (ft-lb)			DE Bearing	ODE Bearing	Connection	Weight (lbs.)
FLA	LRA	60Hz	100%	75%	50%	100%	75%	50%	FLT	LRT %	BDT %				
133	907.5	294.13	95.4	95.4	94.8	0.85	0.86	0.82	367	110	200	6318/C3	6314/C3	6 Lead Δ	1640

NAME PLATE

North American Electric

AC INDUCTION MOTOR
PREMIUM EFFICIENCY
EXPLOSION-PROOF

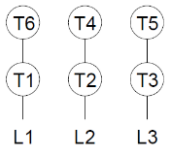
NEMA Premium

CONNECTION DIAGRAMS

CAT. NO. PEXP444TC-125-4	FRAME 444TC	RATING CONT	PHASE 3
DE BRG. 6318/C3	ODE BRG. 6314/C3	LUB. Mobil Polyrex EM	
MAX. AMB. 40 °C	INS. CLASS F	CONN. 6 Lead Δ	SER.
USABLE ON 208V 60HZ AT 294.1 MAX AMPS	ENCL TEXP	WEIGHT 1640	

60 HERTZ DATA				50 HERTZ DATA			
HP 125	RPM 1785			HP 125	RPM 1488		
VOLTS 460				VOLTS 380			
F.L. AMPS 133				F.L. AMPS 161			
S.F. AMPS 152.95				S.F. AMPS 161			
S.F. 1.15	DESIGN B	CODE G		S.F. 1.0	DESIGN B	CODE H	
NEMA NOM.EFF 95.4	NOM. P.F. 0.85			NEMA NOM.EFF 95.3	NOM. P.F. 0.85		
NEMA MIN.EFF 94.5	MAX. KVAR 25.1			NEMA MIN.EFF 94.4			

460V



General purpose use on industrial machinery installed in damp, dusty or dirty environments.These motors are designed for use in hazardous locations defined by class and group.

Hernando, MS 38632

ISO9001 CERTIFIED CC041B

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UL NAME PLATE

LISTED
E310089

NO.XXXXXX

ELECTRIC MOTOR FOR
HAZARDOUS LOCATIONS

Classes and Groups	Temp. code	Max. Amb.	Frame
CLASS I DIVISION 1 GROUP C D,	T3C	40°C, 55°C	140/180/210
CLASS II DIVISION 1 GROUP F G.	T3C	40°C	250~449
CLASS I DIVISION 1 GROUP C D.	T2B	55°C	250~449

Inverter Rated

PWM - Constant Torque - 12 to 60 Hertz, Variable Torque - 6 to 60 Hertz

when the input to the PWM is 480V/60Hz;

PWM - Constant Torque - 10 to 50 Hertz, Variable Torque - 5 to 50 Hertz,

when the input to the PWM is 380V/50Hz.

NEMA MG1-Part 31 8AP.866.1102

APPLICATIONS:

General purpose use on pumps, fans, blowers, compressors, conveyors, material handling and other industrial machinery installed in damp, dusty or dirty environments. These motors are designed to be used in hazardous locations as defined by class and group.

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