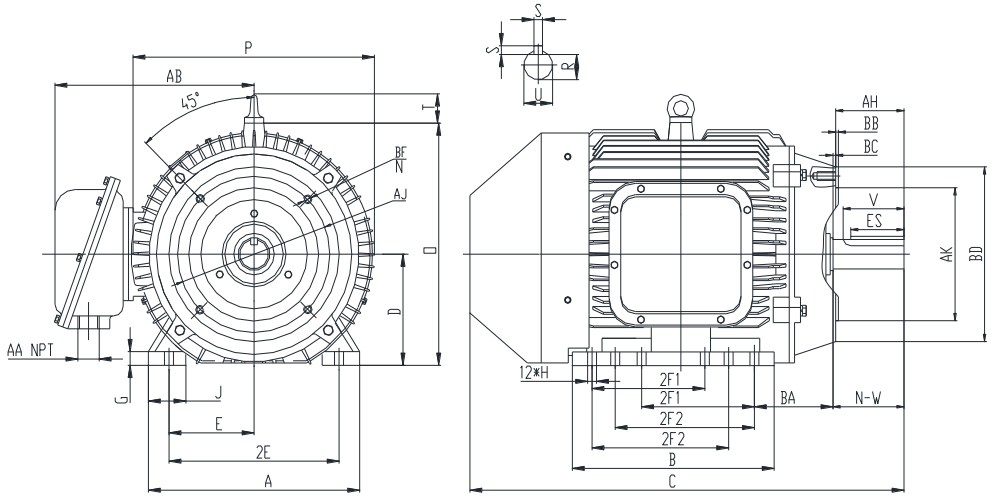
North American Electric

PEXP143TC-1.5-2

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 55 ° C @ 1.15 SF
T3C, with Ambient Temperature Rating: -20° C to 40° C @ 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
1.5	3600	143TC	7	8.15	15.4	3.5	0.5	0.34	1.4	2.75	5.5	4	5	7.83	8.3	1.72	2.25

FLANGE							Shaft Extension, Key Set					
AH	AJ	AK	BB	BC	BD	BF	U	V	R	S	ES	N-W
2.12	5.875	4.5	0.16	0.12	6.5	4*3/8-16	0.875	2	0.771	0.188	1.41	2.25

Conduit Box		Bearings		Mount
AA	AB	DE	ODE	
0.75	8.22	6205-ZZ	6205-ZZ	F1

BEARING LUBRICATION: The bearings come lubricated with Mobil Polyrex EM Polyurea Grease.

ISO9001 CERTIFIED

NEMA Premium

UL LISTED

PO Box 130 350 Vaiden Drive Hernando, MS 38632-0130
Phone: 662-429-8049 Fax: 662-429-8546 Toll Free: 800-884-0404 www.naemotors.com

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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
1.5	3520	143TC	208-230/460	60	1.15	F	B	2.2	M	TEXP	55	40 °C	T3C	0.8

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 %				
1.85	20	4.09	84.0	85.1	83.5	0.85	0.81	0.69	2.3	175	250	6205-ZZ	6205-ZZ	9 Lead 2Y/Y	73

NAME PLATE

North American Electric

AC INDUCTION MOTOR
PREMIUM EFFICIENCY
EXPLOSION-PROOF

NEMA Premium

CONNECTION DIAGRAMS

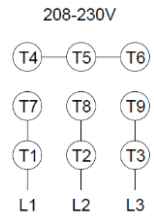
CAT. NO. PEXP143TC-1.5-2	FRAME 143TC	RATING CONT	PHASE 3
DE BRG. 6205-ZZ	ODE BRG. 6205-ZZ	LUB. Mobil Polyrex EM	
MAX. AMB. 40 °C	INS. CLASS F	CONN. 9 Lead 2Y/Y	SER.
USABLE ON 208V 60HZ AT 4.1 MAX AMPS	ENCL TEXP	WEIGHT 73	

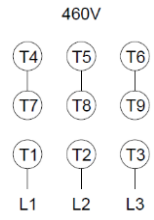
	60 HERTZ DATA		50 HERTZ DATA	
HP	1.5	HP	1.5	
RPM	3520	RPM	2933	
VOLTS	208-230/460	VOLTS	190/380	
F.L. AMPS	4.1 - 3.7 / 1.85	F.L. AMPS	4.5/2.3	
S.F. AMPS	2.13	S.F. AMPS	4.5/2.3	
S.F. 1.15	DESIGN B / CODE M	S.F. 1.0	DESIGN B / CODE N	
NEMA NOM.EFF	84.0	NEMA NOM.EFF	82.8	
NOM. P.F.	0.85	NOM. P.F.	0.85	
NEMA MIN.EFF	81.5	NEMA MIN.EFF	79.4	
MAX. KVAR	0.8			

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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T3C, with Ambient Temperature Rating: -20° C to 40° C @ 1.0 SF for Inverter Duty

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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