



## PEXP254T-15-4

**EXPLOSION PROOF ELECTRIC MOTOR**

**NEMA PREMIUM EFFICIENCY**

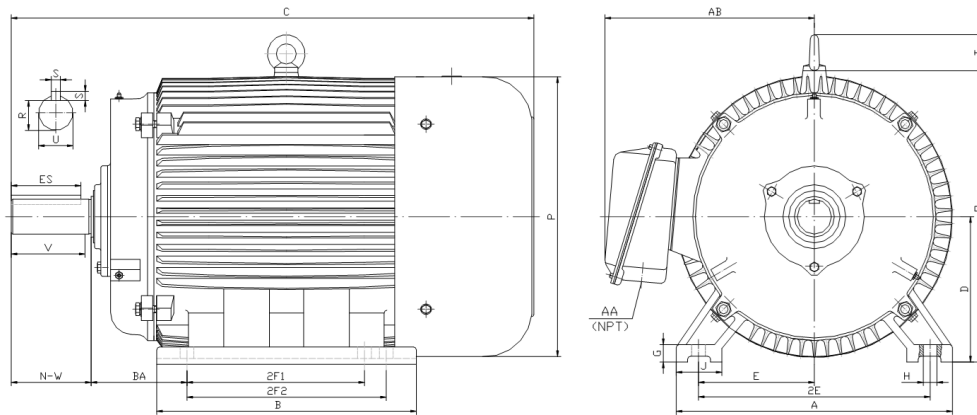
**TOTALLY ENCLOSED FAN COOLED; EXPLOSION PROOF ENCLOSURE**

**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
15	1800	254T	12.36	12.36	24.952	6.25	0.87	0.53	2.75	5	10	8.25	10	13.37	14.47	2.5	4.25

Shaft Extension, Key Set						Conduit Box		Bearings		Mount
U	V	R	S	ES	N-W	AA	AB	DE	ODE	
1.625	3.75	1.416	0.375	2.91	4	1.25	13.38	6309	6309	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	Oper Temp Code	Max. KVAR
15	1778	254T	208-230/460	60	1.15	F	B	1.2	G	TEXP	55	40 °C	T3C	1.2

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 %	6309	6309	9 Lead 2Δ/Δ	403
17.5	116	38.70	92.4	90.0	89.0	0.87	0.86	0.78	44.6	160	200				

### NAME PLATE

		<b>AC INDUCTION MOTOR</b> PREMIUM EFFICIENCY EXPLOSION-PROOF						CONNECTION DIAGRAMS																
CAT. NO.		PEXP254T-15-4		FRAME		254T		RATING CONT		PHASE		3												
DE BRG.		6309		ODE BRG.		6309		LUB.				Mobil Polyrex EM												
MAX. AMB.		40 °C		INS. CLASS		F		CONN.		9 Lead 2Δ/Δ		SER.												
USABLE ON 208V 60HZ AT				38.7 MAX AMPS		ENCL		TEXP		WEIGHT				403										
60 HERTZ DATA	HP		15		RPM		1778		HP		15		RPM		1482									
	VOLTS				208-230/460				VOLTS				190/380											
	F.L. AMPS				38.7 - 35 / 17.5				F.L. AMPS				42.4/21.2											
	S.F. AMPS				20.13				S.F. AMPS				42.4/21.2											
	S.F.		1.15		DESIGN		B		CODE		G		S.F.		1.0		DESIGN		B		CODE		H	
	NEMA NOM.EFF		92.4		NOM. P.F.		0.87		NEMA NOM.EFF		91.5		NOM. P.F.		0.87									
NEMA MIN.EFF		91.0		MAX. KVAR		1.2		NEMA MIN.EFF		89.8														
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												CC041B												
												208-230V 												
												460V 												



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**UL NAME PLATE**

 LISTED E310089	ELECTRIC MOTOR FOR HAZARDOUS LOCATIONS			NO.XXXXXX
	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.