



PEXP184T-5-4

EXPLOSION PROOF ELECTRIC MOTOR

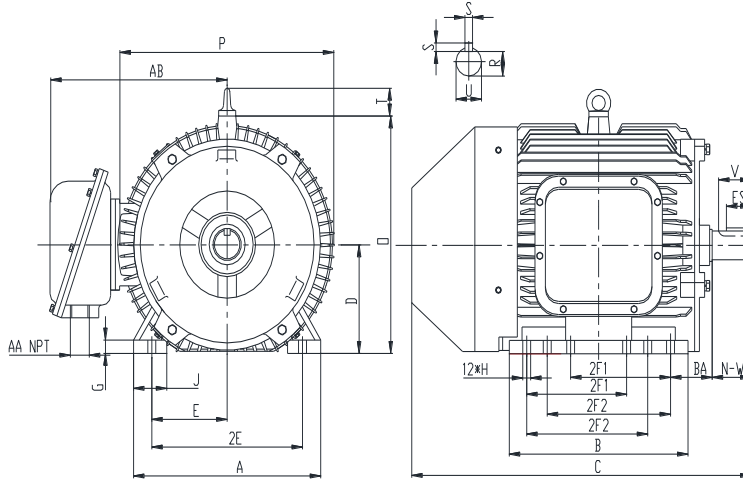
NEMA PREMIUM EFFICIENCY

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 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
5	1800	184T	8.9	8.97	18.43	4.5	0.68	0.41	1.7	3.75	7.5	4.5	5.5	9.9	10.63	2.04	2.75

Shaft Extension, Key Set						Conduit Box		Bearings		Mount
U	V	R	S	ES	N-W	AA	AB	DE	ODE	
1.125	2.5	0.986	0.25	1.78	2.75	0.75	9.41	6306-ZZ	6306-ZZ	F1

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





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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
5	1767	184T	230/460	60	1.15	F	B	1.8	J	TEXP	55	40 °C	T3C	2.4

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 %	6306-ZZ	6306-ZZ	9 Lead 2Y/Y	146
7	46	15.48	89.5	89.2	87.0	0.81	0.75	0.66	14.9	185	225				

*Usable at 208 Volts

NAME PLATE

		AC INDUCTION MOTOR PREMIUM EFFICIENCY EXPLOSION-PROOF						CONNECTION DIAGRAMS					
CAT. NO.		PEXP184T-5-4		FRAME	184T	RATING	CONT	PHASE		3			
DE BRG.		6306-ZZ		ODE BRG.	6306-ZZ	LUB.				Mobil Polyrex EM			
MAX. AMB.		40 °C		INS. CLASS	F	CONN.	9 Lead 2Y/Y		SER.				
ENCL		TEXP		WEIGHT		146							
60 HERTZ DATA	HP	5		RPM	1767		HP	5		RPM	1473		
	VOLTS				230/460		VOLTS				190/380		
	F.L. AMPS				14 / 7		F.L. AMPS				16.9/8.5		
	S.F. AMPS				8.05		S.F. AMPS				16.9/8.5		
	S.F.	1.15	DESIGN	B	CODE	J		S.F.	1.0	DESIGN	B	CODE	K
	NEMA NOM.EFF	89.5		NOM. P.F.	0.81		NEMA NOM.EFF	88.4		NOM. P.F.	0.81		
NEMA MIN.EFF	87.5		MAX. KVAR	2.4		NEMA MIN.EFF	86.1						
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.						CC041B							
Hernando, MS 38632													
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.