



PE254T-5-8C

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
5	900	254T	13	10.45	23.2	6.25	0.7	0.53	2.75	5	10	8.25	NA	13	12.4	2.2	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	10.1	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
5	870	254T	208-230/460	60	1.15	F	C	3.3	J	TEFC	55	40 °C

Amps (460V)		Efficiency (%)			Power Factor			Torque (ft-lb)			DE Bearing	ODE Bearing	Connection	Weight (lbs.)
FLA	LRA	100%	75%	50%	100%	75%	50%	FLT	LRT %	BDT %				
7.9	46	86.5	86.0	84.0	0.69	0.55	0.42	30.5	230	280	6309	6309	12 Lead 2Δ/Δ	218

NAME PLATE

		AC INDUCTION MOTOR INVERTER DUTY 20:1 VT; 10:1 CT								CONNECTION DIAGRAMS		
CAT NO. PE254T-5-8C		FRAME 254T				PHASE 3						
HZ 60	S.F. 1.15	HZ 50	S.F. 1.0	ENCL TEFC	IP 55							
HP 5	RPM 870	HP 5	RPM 725	DUTY CONT	DES C							
VOLTS 208-230/460		VOLTS 190/380		AMB 40 °C	INS F							
AMPS 17.5 - 15.8 / 7.9		AMPS 19/9.5		DE BRG 6309								
CODE J	P.F. 0.69	CODE G	P.F. 0.71	ODE BRG 6309								
EFF 86.5	MIN 84.0	EFF 84.5	MIN 82.0	LUB: Mobil Polyrex EM								
MOTOR WEIGHT 218	LBS	CONNECTION 12 Lead 2Δ/Δ		SER NO								
General purpose use on industrial machinery installed in damp, dusty or dirty environments. Hernando, Mississippi								CC082A				

APPLICATIONS:

General purpose use on pumps, fans, blowers, compressors, conveyors, material handling and other industrial machinery installed in damp, dusty or dirty environments.