



PE254TC-7.5-6-AI

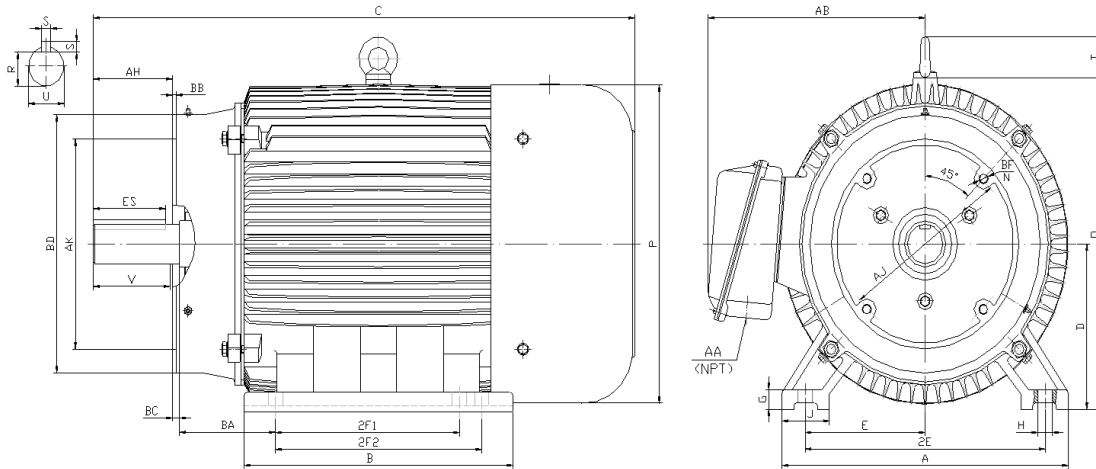
GENERAL PURPOSE ELECTRIC MOTOR

NEMA PREMIUM EFFICIENCY

THREE PHASE, TOTALLY ENCLOSED FAN COOLED - C-FLANGE W/ FEET

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
7.5	1200	254TC	12.50	11.73	25.70	6.25	0.80	0.53	2.56	5.00	10.00	8.25	10.00	13.42	14.02	2.05	4.25

FLANGE							Shaft Extension, Key Set						Conduit Box		Bearings		Mount
AH	AJ	AK	BB	BC	BD	BF	U	V	R	S	ES	N-W	AA	AB	DE	ODE	
3.75	7.250	8.50	0.25	0.25	10.00	4*1/2-13	1.625	3.75	1.416	0.375	2.91	4.00	1.25	11.22	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
7.5	1175	254TC	230/460	60	1.15	F	B	2.1	H	TEFC	55	40° C

Amps (460V)		Efficiency (%)				Power Factor			Torque (ft-lb)			DE Bearing	ODE Bearing	Connection	Weight (lbs.)
FLA	LRA	100%	75%	50%	Min.	100%	75%	50%	FLT	LRT %	BDT %				
9.8	63.0	91.0	91.2	90.5	89.5	0.790	0.650	0.540	33.7	200	240	6309	6309	12 Lead 2Δ/Δ	310

*Usable at 208 Volts

NAME PLATE

		AC INDUCTION MOTOR INVERTER DUTY 20:1 VT; 10:1 CT						CONNECTION DIAGRAMS			
CAT NO: PE254TC-7.5-6-AI		FRAME 254TC		PHASE 3							
HZ 60	S.F. 1.15	HZ 50	S.F. 1.0	ENCL TEFC	IP 55						
HP 7.5	RPM 1175	HP 7.5	RPM 980	DUTY CONT	DES B						
VOLTS 230/460		VOLTS 190/380		AMB 40° C	INS F						
FLA 19.6 / 9.8	FLA 24.6/12.3		DE BEARING 6309								
CODE H	P.F. 0.79	CODE J	P.F. 0.79	ODE BEARING 6309							
EFF 91.0	MIN 89.5	EFF 90.2	MIN 88.5	LUB: Mobil Polyrex EM							
MOTOR WEIGHT 310 LBS	CONNECTION 12 Lead 2Δ/Δ		SER NO								
General purpose use on industrial machinery installed in damp, dusty or dirty environments. Hernando, Mississippi											

APPLICATIONS:

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