

PE587U-450-4C

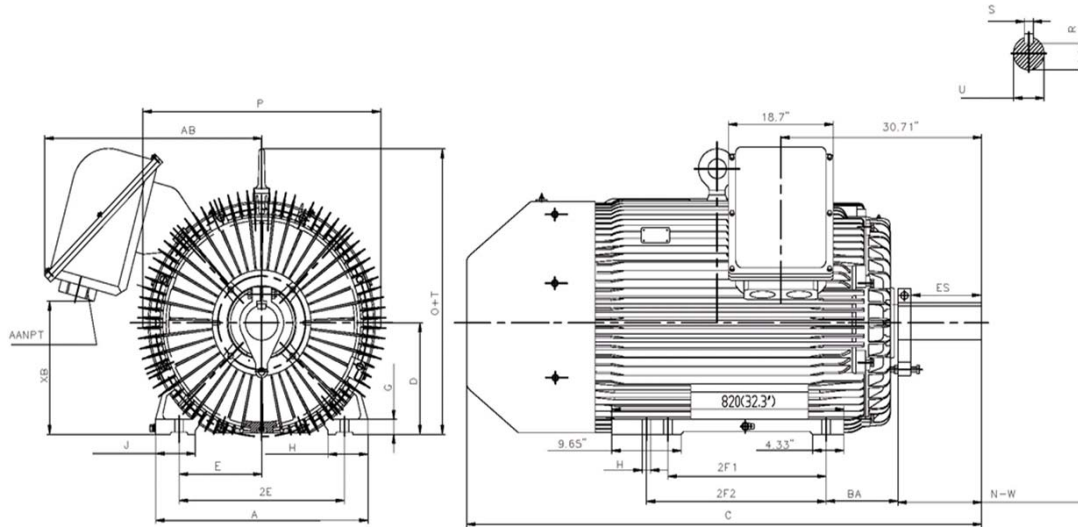
CRUSHER DUTY MOTOR

HIGH TORQUE / PREMIUM EFFICIENCY DESIGN

TOTALLY ENCLOSED FAN COOLED

HEAVY DUTY CAST IRON CONSTRUCTION

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
450	1800	587U	29.53	32.38	71.65	14.50	1.97	1.13	5.51	11.50	23.00	22.00	25.00	41.36	33.07	5.88	10.00

Shaft Extension, Key Set						Conduit Box		Bearings		Mount
U	V	R	S	ES	N-W	AA	AB	DE	ODE	
3.875	11.25	3.817	1.00	10.00	11.63	2 X 3"	28.15	NU324	6319	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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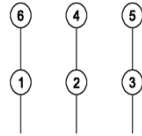



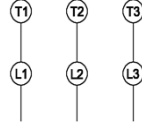
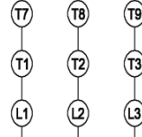
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PERFORMANCE DATA

HP	RPM	Frame	Voltage	Frequency (Hz)	Full Load S.F.	Insulation Class	NEMA Design	Slip (%)	NEMA Code	Enclosure Type	IP Rating	Max. Ambient
450	1789	587U	460	60	1.15	F	C	0.6	G	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 %	NU324	6319	12 Lead Δ	5370
487.2	3250	96.2	95.8	95.4	95.4	0.896	0.876	0.832	1791	200	230				

NAME PLATE

 North American Electric, Inc.															CONNECTION DIAGRAMS Across The Line 		
CRUSHER DUTY MOTOR																	
CAT NO: PE587U-450-4C			FRAME 587U			PHASE 3											
DE BRG NU324		ODE BRG 6319		CONN. 12 Lead Δ													
MAX AMB. 40° C		INS. CLASS F		RATING CONT		WEIGHT 5370											
LUBRICATION Mobil Polyrex EM				SER													
60 HERTZ DATA	HP 450		RPM 1789		HP 450		RPM 1490		50 HERTZ DATA								
	VOLTS 460				VOLTS 380												
	F.L. AMPS 487.2				F.L. AMPS 589.8												
	S.F. AMPS 560.3				S.F. AMPS 589.8												
	S.F. 1.15 DESIGN C CODE G				S.F. 1.0 DESIGN C CODE H												
	NEMA NOM.EFF. 96.2 %		NOM. P.F. 0.896		NEMA NOM.EFF. 95.1 %		NOM. P.F. 0.896										
NEMA MIN.EFF. 95.4 %		MAX. KVAR 49.4		NEMA MIN.EFF. 94.4 %		MAX. KVAR 51.6											
Designed specifically for use on crushing and pulverizing equipment and other equipment requiring extremely high starting torques and breakdown torques.										  							
Hernando, MS 38632										CC041B							
										PWS Start 							
										PWS Run 							

APPLICATIONS:

Special purpose use on crushing and pulverizing equipment and other industrial equipment requiring extremely high starting torques and breakdown torques.