

PE587UZ-450-4C

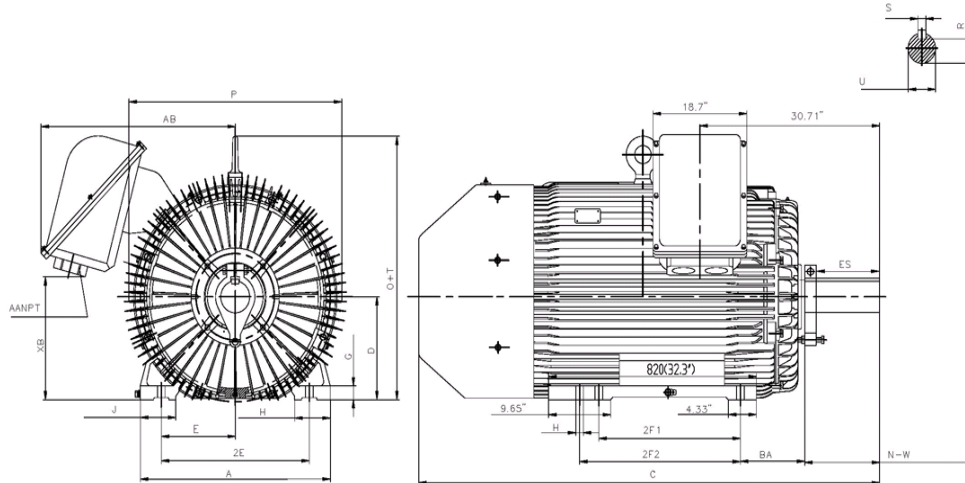
CRUSHER DUTY MOTOR

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	587UZ	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	
4.375	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

ISO9001
CERTIFIED

CE

NEMA
Premium

CSA
C US



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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	587UZ	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		
CRUSHER DUTY MOTOR														
CAT NO:		PE587UZ-450-4C		FRAME		587UZ		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. ISO9001 CERTIFIED CE SP US CC041B Hernando, MS 38632														

460V

T12

T6

T7

T1

L1

T10

T4

T8

T2

L2

T11

T5

T9

T3

L3

APPLICATIONS:

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