

PRODUCT INFORMATION PACKET



Model No: 825107.00

Catalog No: 825107.00

Explosion Proof Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
365T Frame, EPFC



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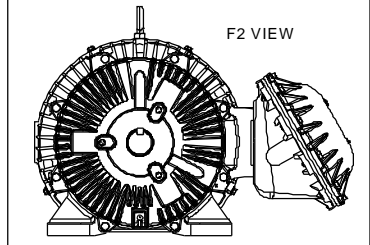
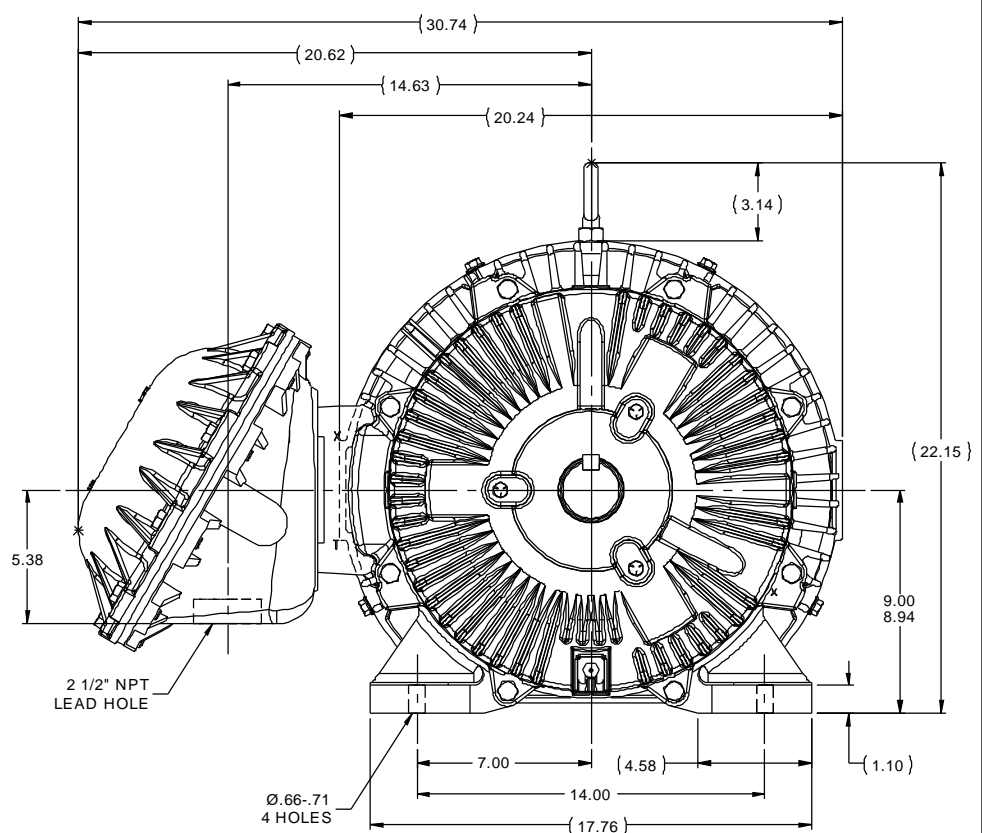
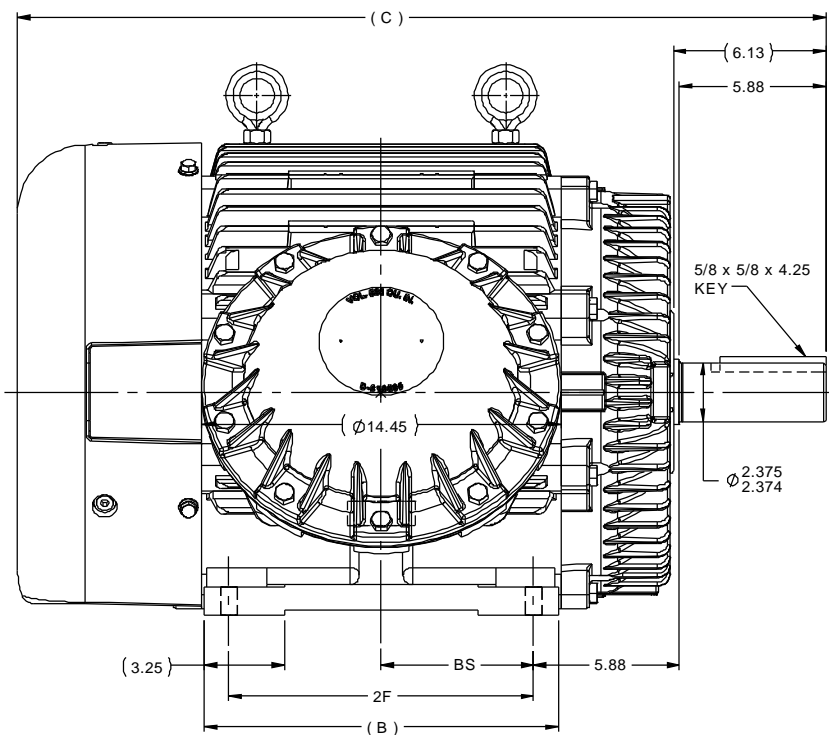


Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	1782 & 1482 rpm	Service Factor	1.15 & 1.15
Frame	365T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	174/87 & 169/84.5 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	H
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.069 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	32.52 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1		
Connection Drawing	A-EE7308AD-LE	Outline Drawing	B-SS518459LE-1450

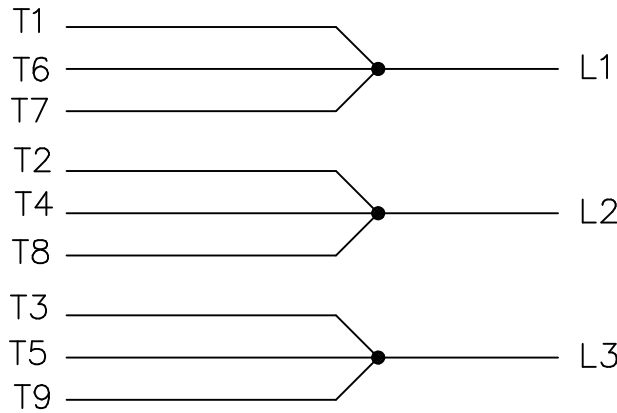


NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

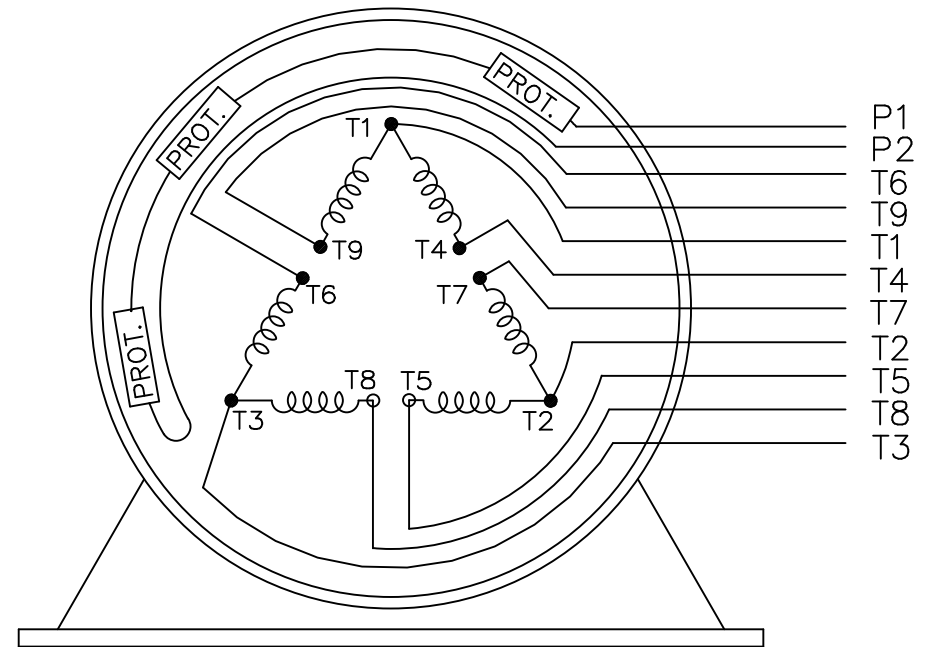
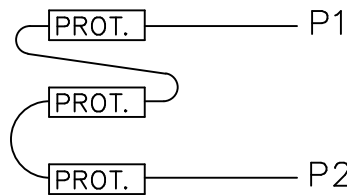
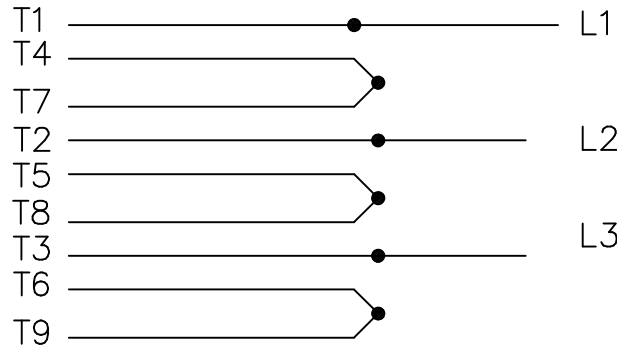
DASH	FRAME	B	C	2F	BS
1350	364T	13.25	31.52	11.25	5.62
1450	365T	14.25	32.52	12.25	6.12

TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN KL 12-29-2003 CHK ML 12-30-2003 APPR JES 01-02-2004
DEC	INCHES			TITLE OUTLINE
X	±.1			360T FR. - EXP. PROOF
XX	±.03			
XXX	±.005		SCALE 1:5	
XXXX	±.0005		REF	
1	UPDATED TO CURRENT STD'S IN SOLIDWORKS MU49388	JJB 09-16-2013		FMF MU49388
NO	REVISION	BY & DATE	CHK LANG ±1/2°	PAGE OF
	THIRD ANGLE PROJECTION		RFP 01-02-2004	REV
			PREV	SIZE
			NETWORK FILE NAME SS518459LE	DRAWING NO
				B SS518459LE
				REV
				1


LOW VOLTAGE



HIGH VOLTAGE



WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 05-15-2002				
				DEC.	INCHES		CHK	ML	05-20-2002		
				.X	±.1		APPD	TB	05-20-2002		
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE				
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3	CN 32724	DRS 06-12-2004	ML	.XXX ±.005	3Ø - WITH PROTECTORS	REF				
1	NEW DRAWING	CN 35132	NJS 05-20-2002	TB	.XXXX ±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV				
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE ee7308ad_le		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA-LB	A	EE7308AD-LE				2

Data Sheet

Date: 1/30/2018

825107.00



Data @ **460 V**

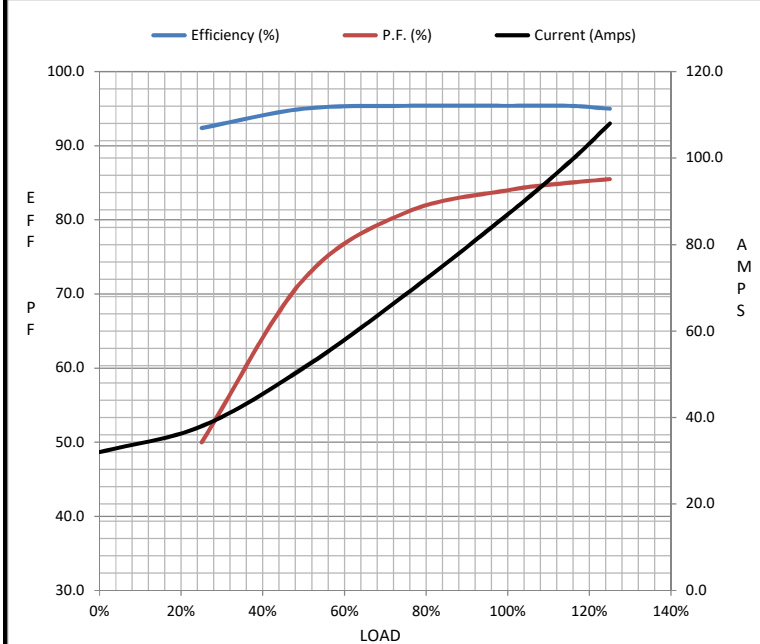
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	32.0	38.0	51.5	68.5	87.0	99.0	108	650
Torque (ft-lb)	0.00	55.0	110	166	221	255	278	500
RPM	1800	1795	1790	1785	1782	1.778	1775	0
Efficiency (%)		92.4	95.0	95.4	95.4	95.4	95.0	
P.F. (%)	3.5	50.0	72.0	81.0	84.0	85.0	85.5	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1782	1800
Current (Amps)	650	575	360	87.0	32.0
Torque (ft-lb)	500	425	625	221	0.00

Information Block				
HP	75.0			
Sync. RPM	1800			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	18.5 Lb-Ft ²			
Ref Wdg	T3654203 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS518459LE-1450			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0510	0.0330	0.2910	0.3550	8.1840



Speed - Torque Curve

