

PRODUCT INFORMATION PACKET



Model No: 825105.00

Catalog No: 825105.00

Explosion Proof Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
364T Frame, EPFC



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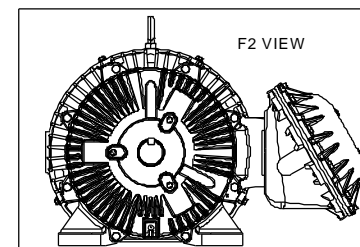
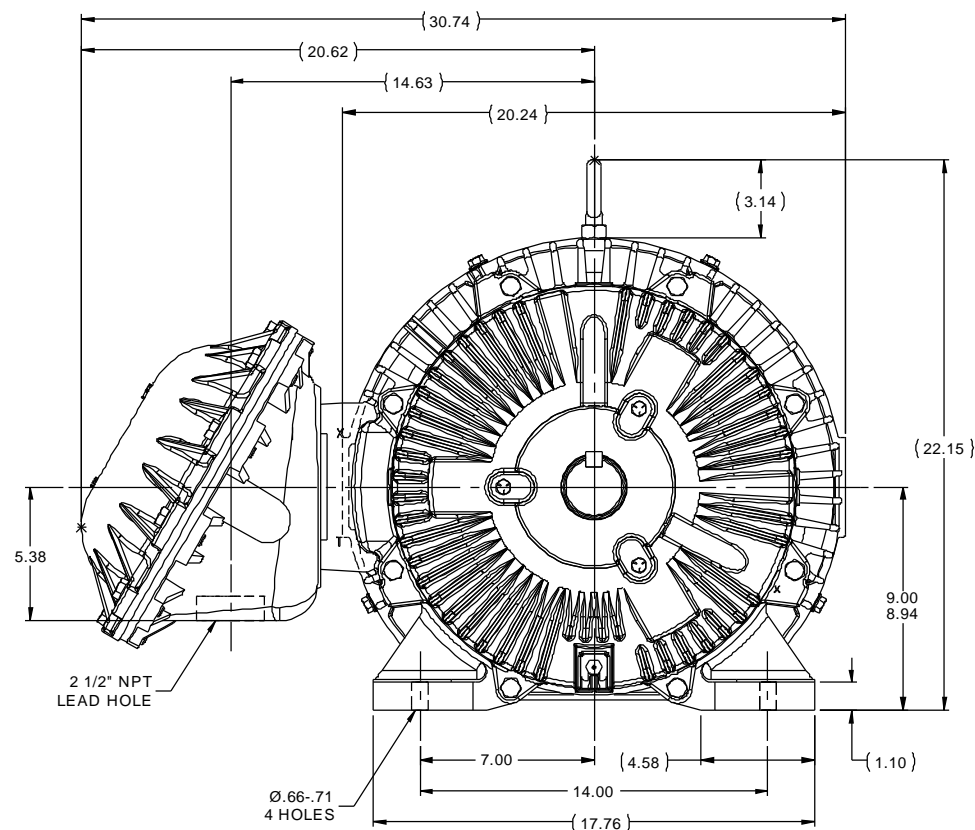
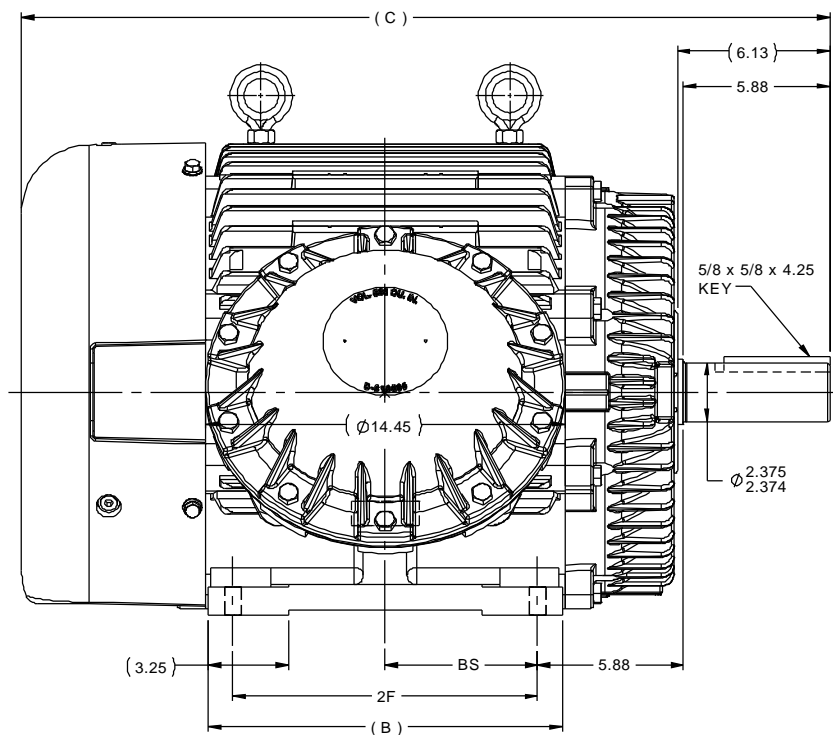


Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	364T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	138/69 & 139/69.5 A	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
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	.101 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	31.52 in
Frame Length	13.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS518459LE-1350	Connection Drawing	A-EE7308AD-LE

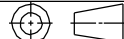


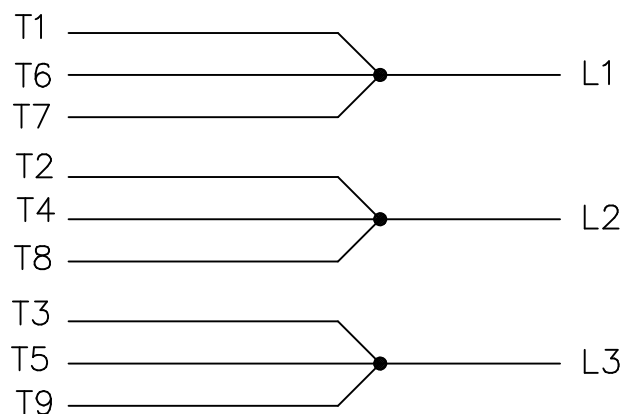
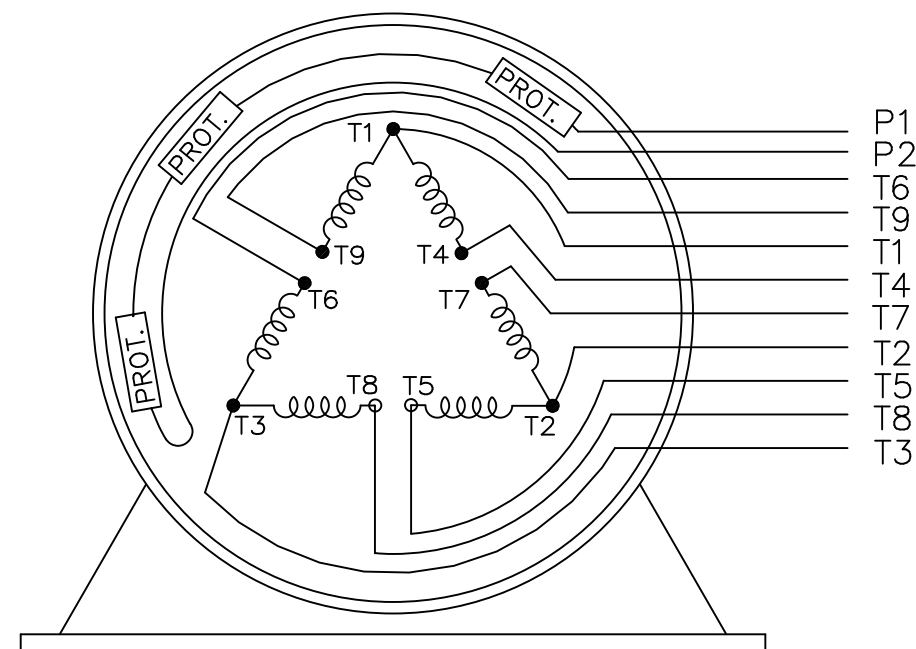
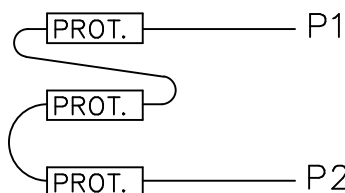
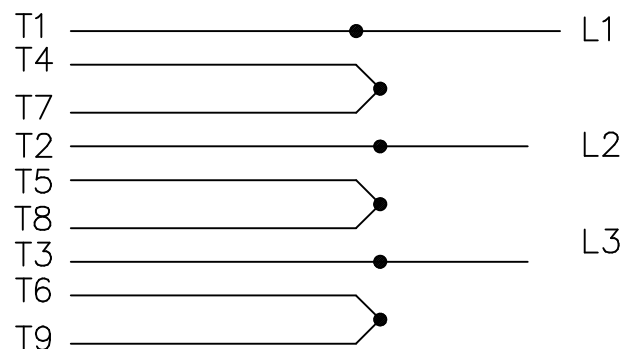
- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

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		DEC INCHES		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN KL 12-29-2003
						X ±.1						CHK ML 12-30-2003
						XX ±.03		TITLE OUTLINE				APPR JES 01-02-2004
						XXX ±.005		360T FR. - EXP. PROOF				SCALE 1:5
1 UPDATED TO CURRENT STD'S IN SOLIDWORKS MU49388				JJB 09-16-2013		XXXX ±.0005		MAT'L				REF
						CHK ANG ±1/2°		FINISH				FMF MU49388
						RFP 01-02-2004		PREV				PAGE OF
						NETWORK FILE NAME SS518459LE						REV
												1

THIRD ANGLE PROJECTION



LOW VOLTAGEHIGH VOLTAGEVIEW OF TERMINAL END

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		SCALE					
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 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			



CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CATALOG #: 825105.00

CONN. DIAGRAM: A-EE7308AD-LE

OUTLINE: B-SS518459LE-1350

MOUNTING: F1 ONLY

WINDING #: T3654165 6

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45.0&37.0	1800	1780&1480	364T	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	138/69&139/69.5	LINE OR INVERTER	CONTINUOUS	B1	1.15/1.15	40

FULL LOAD EFF:	95&94.5	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	95	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	86&86	3/4 LOAD PF:	83.5	1/2 LOAD PF:	77	94.5		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	870 / 435	325 LB-FT 184 %	450 LB-FT 254 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	16 LB-FT^2	420 LB-FT^2	25 SEC.	2	925 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 10:1

INV. HP SPEED RANGE: NONE

ENCODER: NONE

NONE NONE

NONE NONE PPR

BRAKE: NONE NONE

NONE P/N NONE

NONE NONE

FT-LB NONE V NONE Hz

Data Sheet

Date: 1/22/2018

825105.00



Data @ 460 V

Motor Load Data

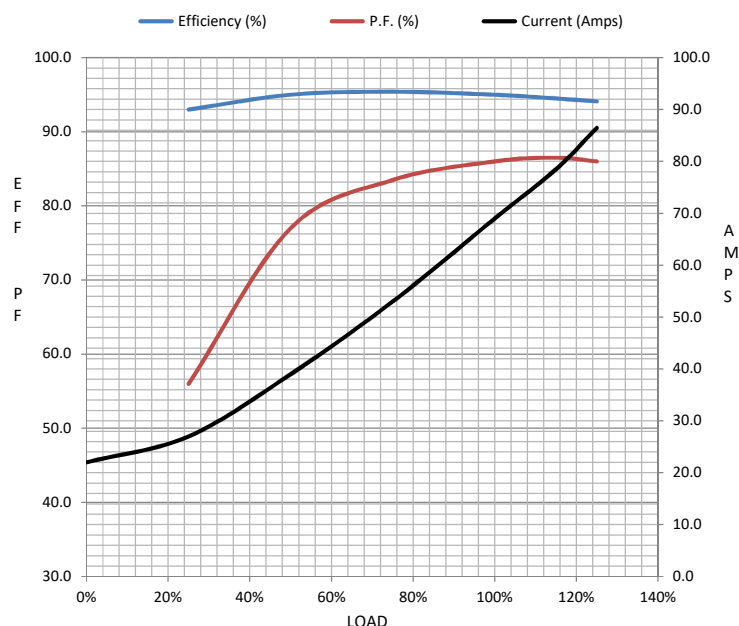
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	22.0	27.0	39.0	53.0	69.0	78.5	86.5	435	
Torque (ft-lb)	0.00	44.0	88.0	133	177	204	222	325	
RPM	1800	1795	1790	1785	1780	1.775	1772	0	
Efficiency (%)		93.0	95.0	95.4	95.0	94.5	94.1		
P.F. (%)	5.0	56.0	77.0	83.5	86.0	86.5	86.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1780	1800
Current (Amps)	435	375	250	69.0	22.0
Torque (ft-lb)	325	300	450	177	0.00

Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.0			
Temp Rise @ FL	75	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	16.0	Lb-Ft²		
Ref Wdg	T3654165	NONE		
Sound Pressure @ 1M	65	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS518459LE-1350			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0650	0.0470	0.4120	0.4730	11.4470



Speed - Torque Curve

