

PRODUCT INFORMATION PACKET



Model No: 825106.00

Catalog No: 825106.00

Explosion Proof Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
365TS Frame, EPFC



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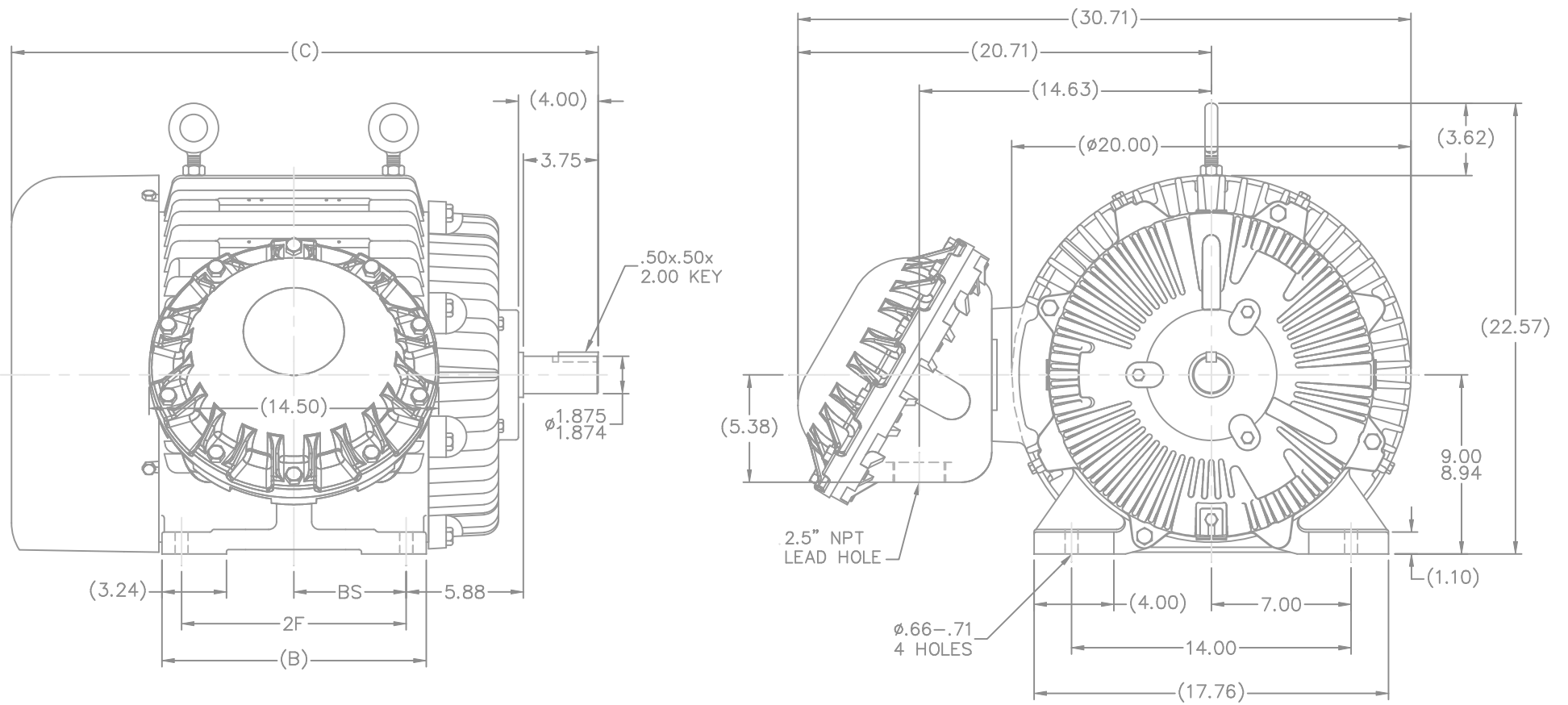


Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	365TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	94.1 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	169/84.5 & 162/81 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	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	2	Rotation	Reversible
Resistance Main	.07 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	30.38 in
Frame Length	14.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS518623LE-1450	Connection Drawing	A-EE7308AD-LE



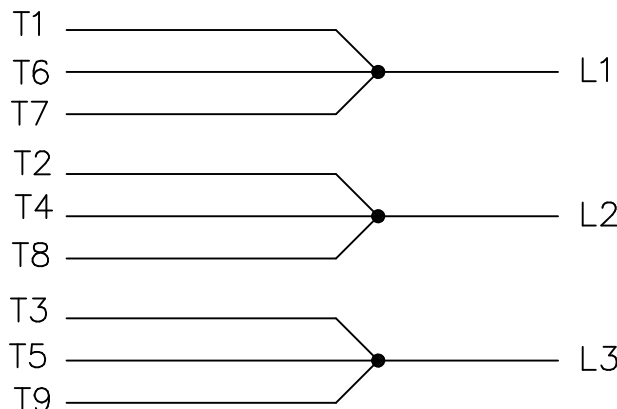
- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(REPLACES B-SS503646)

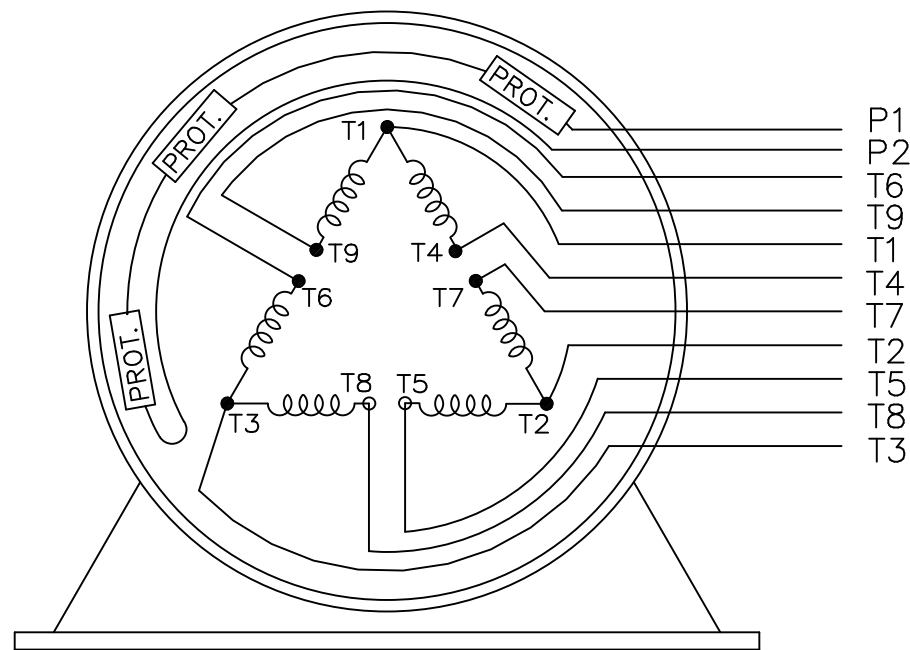
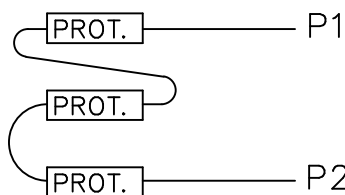
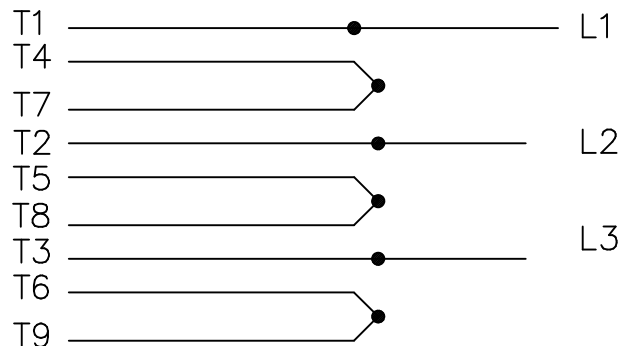
DASH	FRAME	B	C	2F	BS
1350	364TS	13.25	29.38	11.25	5.62
1450	365TS	14.25	30.38	12.25	6.12

		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 10-14-2004	
		DEC.	INCHES			CHK	ML 10-14-2004
		.X	±.1			APPD	JET 10-14-2004
		.XX	±.03		TITLE OUTLINE		SCALE 1=5
		.XXX	±.005		360TS FR. - EXP. PR.		REF
		.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 SS518623LE	SIZE	DRAWING NO. PAGE OF REV.
				DIST	WA-LE	B	SS518623LE

LOW VOLTAGE




HIGH VOLTAGE



VIEW 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	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



CERTIFICATION DATA SHEET

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

CATALOG #: 825106.00

CONN. DIAGRAM: A-EE7308AD-LE

OUTLINE: B-SS518623LE-1450

MOUNTING: F1 ONLY

WINDING #: T365262 R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75&60	56.0&45.0	3600	3555&2960	365TS	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	169/84.5&162/81	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	94.1&94.1	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	88.5&89	3/4 LOAD PF:	86.5	1/2 LOAD PF:	81	93.6		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
111 LB-FT	1084 / 542	180 LB-FT 162 %	320 LB-FT 288 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	8.2 LB-FT^2	- LB-FT^2	20 SEC.	-	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	PREMIUM SEVERE DUTY	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	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	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 2:1
INV. HP SPEED RANGE:	1.5 X BASE SPEED
ENCODER:	NONE NONE NONE NONE NONE PPR
BRAKE:	NONE NONE NONE P/N NONE NONE NONE

Data Sheet

Date: 1/18/2018

825106.00



Data @ **460 V**

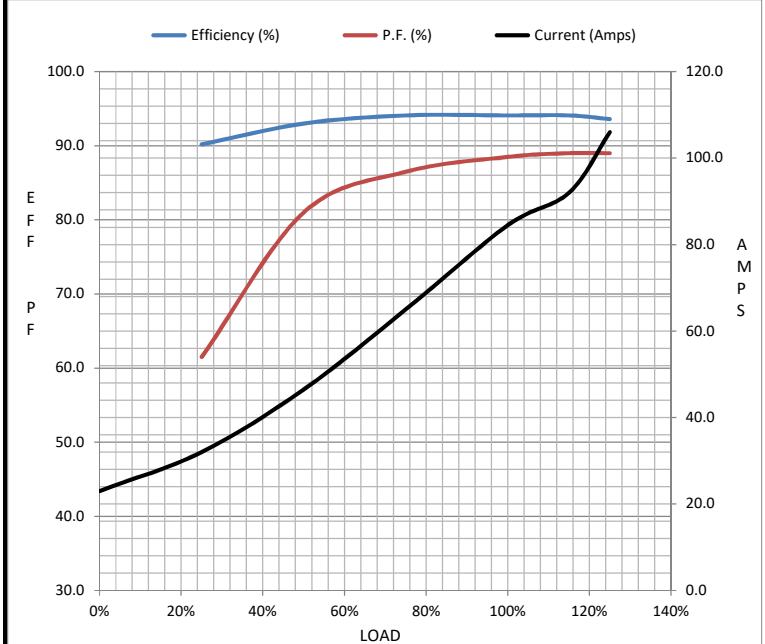
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	23.0	32.0	46.5	65.0	84.5	92.0	106	542
Torque (ft-lb)	0.00	27.5	55.0	83.0	111	128	140	180
RPM	3600	3590	3580	3565	3555	3,545	3540	0
Efficiency (%)		90.2	93.0	94.1	94.1	94.1	93.6	
P.F. (%)	6.0	61.5	81.0	86.5	88.5	89.0	89.0	31.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3555	3600
Current (Amps)	542	488	335	84.5	23.0
Torque (ft-lb)	180	162	320	111	0.00

Information Block				
HP	75.0			
Sync. RPM	3600			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	8.2 Lb-Ft ²			
Ref Wdg	T365262 R1			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS518623LE-1450			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0520	0.0380	0.3190	0.2880	11.5290



Speed - Torque Curve

