

PRODUCT INFORMATION PACKET



Model No: 825104.00
Catalog No: 825104.00
Explosion Proof Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
364TS Frame, EPFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



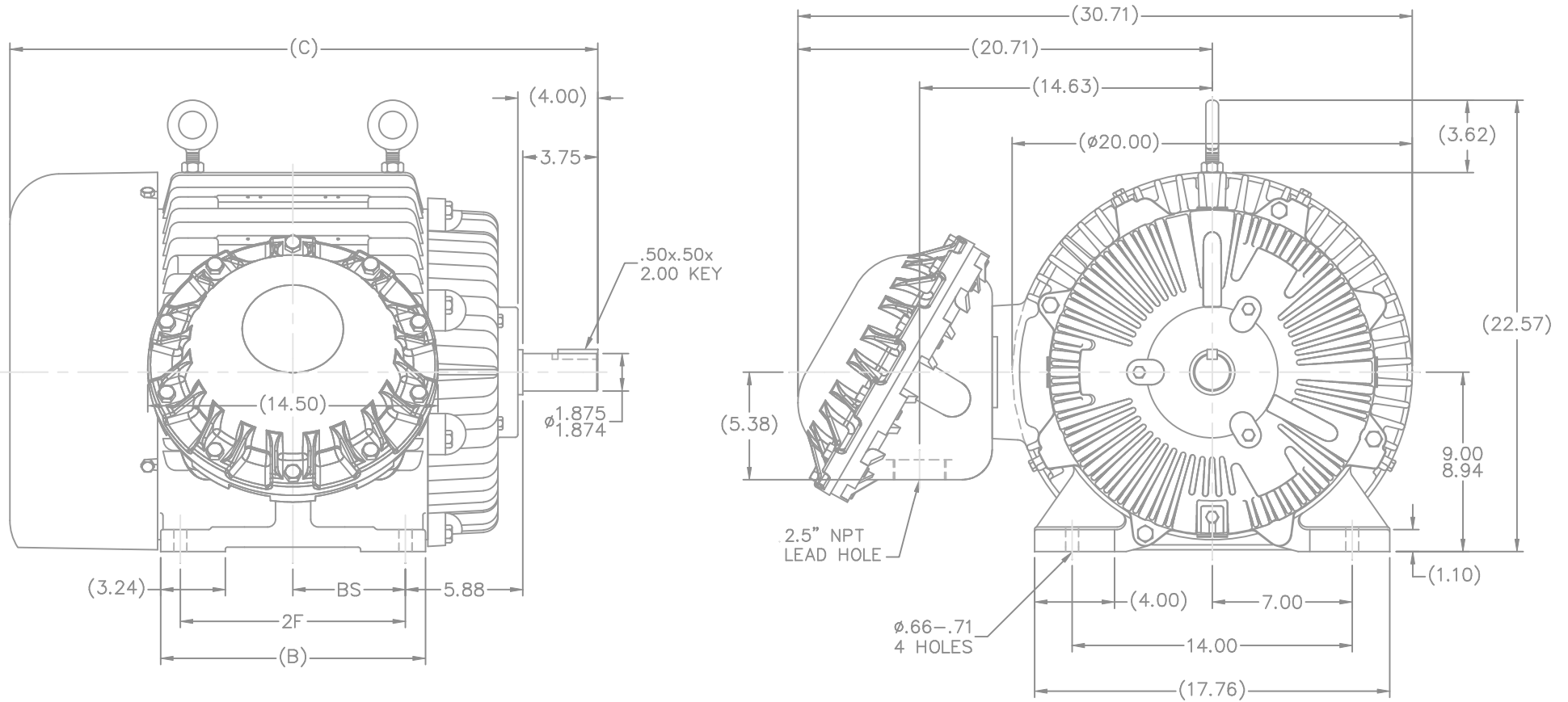


Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2958 rpm	Service Factor	1.15 & 1.15
Frame	364TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	94.5 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	134/67 & 136/68 A	Power Factor	88
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	.089 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	29.38 in
Frame Length	13.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS518623LE-1350	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.

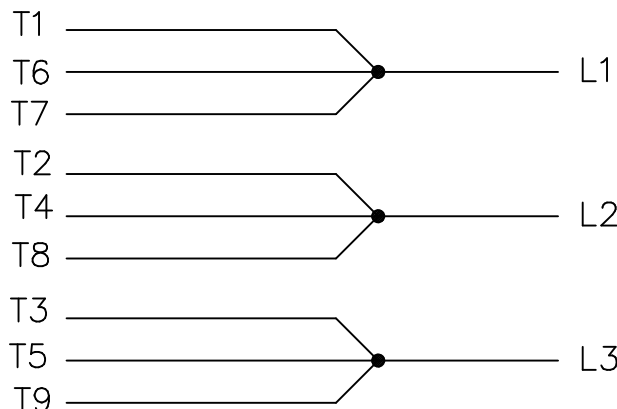
(REPLACES B-SS503646)

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

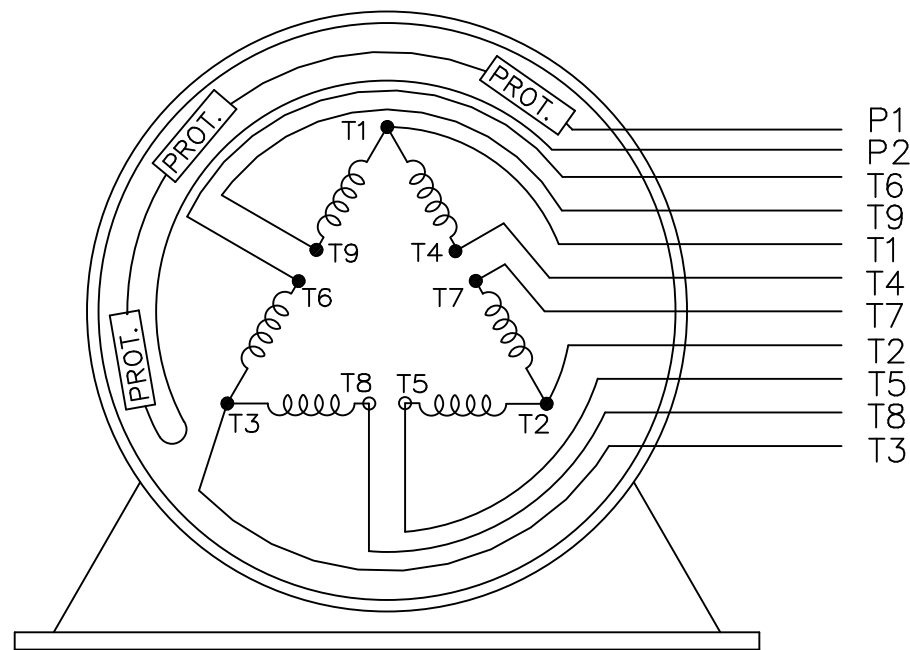
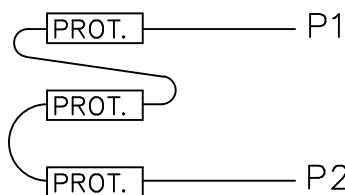
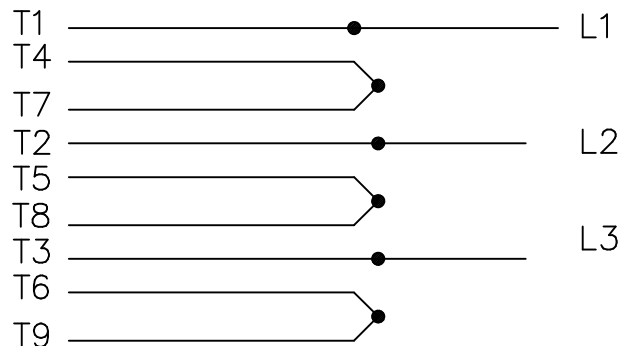
NO.		REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	WA-LE	CAD FILE	SS518623LE	SIZE B	DRAWING NO. SS518623LE	PAGE OF	REV.

TOLERANCES UNLESS SPECIFIED		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN NJS 10-14-2004	
DEC.	INCHES	CHK	ML	APPD	JET	SCALE	1=5
.X	±.1					TITLE	OUTLINE
.XX	±.03						360TS FR. - EXP. PR.
.XXX	±.005						REF
.XXXX	±.0005						FMF

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 3Ø - WITH PROTECTORS	SCALE		
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3 CN 32724	DRS 06-12-2004	ML	.XXX	±.005		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 #: 825104.00

CONN. DIAGRAM: A-EE7308AD-LE

OUTLINE: B-SS518623LE-1350

MOUNTING: F1 ONLY

WINDING #: T364271 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45.0&37.0	3600	3555&2958	364TS	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	134/67&136/68	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	94.5&93.6	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF	94.1	ELEC. TYPE	SQ CAGE INV RATED
FULL LOAD PF:	88&89	3/4 LOAD PF:	85.5	1/2 LOAD PF:	79				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.6 LB-FT	870 / 435	140 LB-FT 158 %	265 LB-FT 299 %	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	7.3 LB-FT^2	40 LB-FT^2	20 SEC.	2	775 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

*
N
O
T
E

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE

Data Sheet

Date: 1/22/2018

825104.00



Data @ 460 V

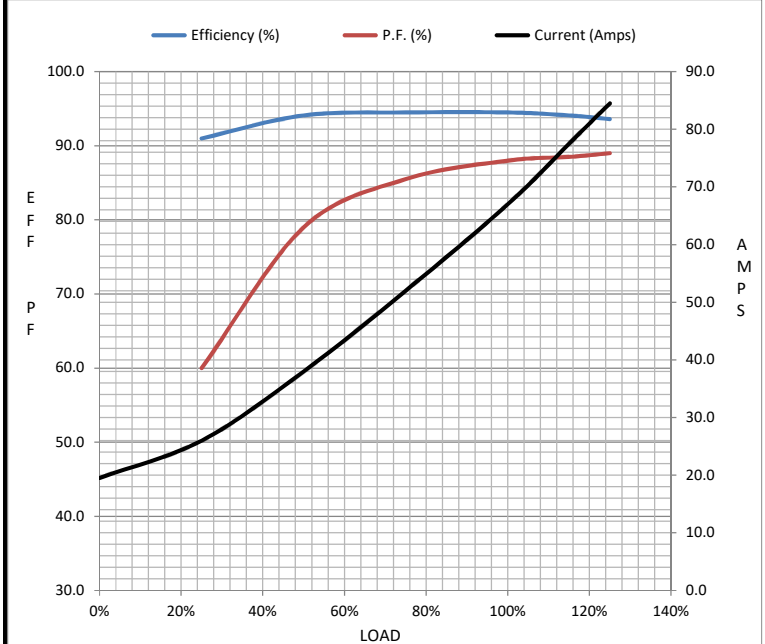
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	19.5	26.0	38.0	52.0	67.0	77.5	84.5	435
Torque (ft-lb)	0.00	22.0	44.0	66.0	88.6	102	111	140
RPM	3600	3590	3580	3570	3555	3,550	3545	0
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6	
P.F. (%)	6.0	60.0	79.0	85.5	88.0	88.5	89.0	28.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3330	3555	3600
Current (Amps)	435	392	300	67.0	19.5
Torque (ft-lb)	140	101	265	88.6	0.00

Information Block				
HP	60.0			
Sync. RPM	3600			
Frame	364			
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	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	7.3 Lb-Ft ²			
Ref Wdg	T364271 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS518623LE-1350			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0650	0.0460	0.3980	0.3330	13.1970



Speed - Torque Curve

