

PRODUCT INFORMATION PACKET



Model No: 825098.00

Catalog No: 825098.00

Explosion Proof Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
286TS Frame, EPFC



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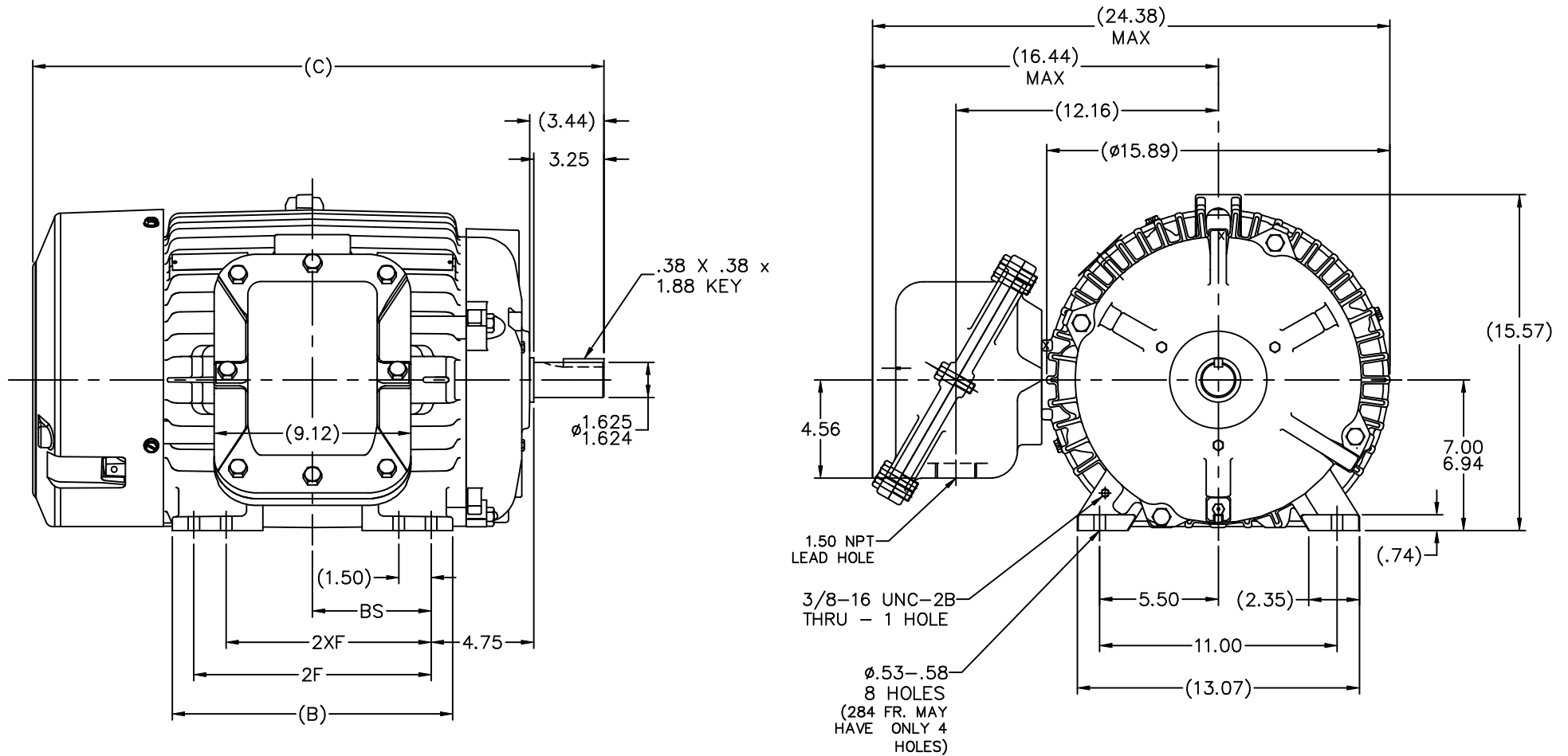


Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3560 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	93.6 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	68/34 & 68/34 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
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	.296 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	26.47 in
Frame Length	14.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS311004LE-1425	Connection Drawing	A-EE7308T-LE



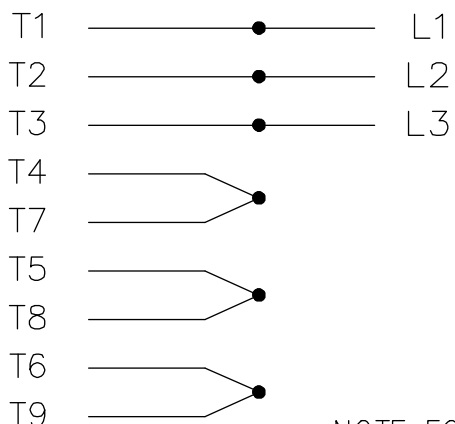
NOTES:

1. BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2XF	BS
1275	284TS	12.50	24.97	9.50		4.75
1425	286TS	13.00	26.47	11.00	9.50	5.50

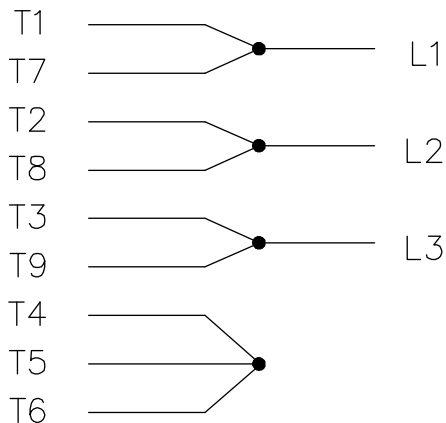
			TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN RWR 04-10-2007		
			DEC.	INCHES			CHK	ML	04-10-2007
			.X	±.1			APPD	DR	04-10-2007
			.XX	±.03				SCALE	7-32
			.XXX	±.005		TITLE OUTLINE - EXP.PR. - TGN		REF	
			.XXXX	±.0005		280TS FR. - BB - STD - 12.50 LAM.		FMF	MU78866
						MAT'L		PREV	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH			
	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	04-10-2007		CAD FILE ss311004LE	SIZE	DRAWING NO.	PAGE OF
			DIST	LB-BR			B	SS311004LE	REV.

HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

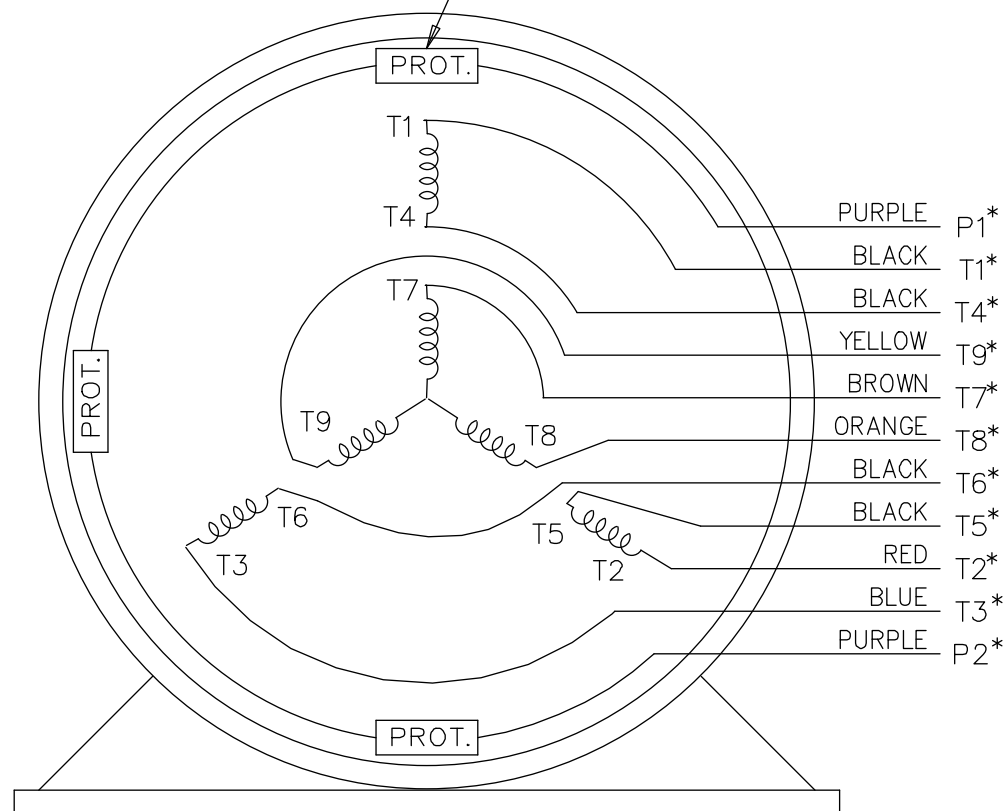


* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.


THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LE

THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJB 05-07-2002		
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES		CHK	ML	05-08-2002
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1	TITLE CONNECTION DIAGRAM 3 PHASE - DUAL VOLTAGE MOTOR	APPD	TB	05-08-2002
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02		SCALE	1=1	
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005		REF		
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV		
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			DIST	LB-WP-LE			EE7308T-LE		05



CERTIFICATION DATA SHEET

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

CATALOG #: 825098.00

CONN. DIAGRAM: A-EE7308T-LE

OUTLINE: B-SS311004LE-1425

MOUNTING: F1 ONLY

WINDING #: K286292 13

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3560&2960	286TS	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	68/34&68/34	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	93.6&92.4	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	89&88.5	3/4 LOAD PF:	84	1/2 LOAD PF:	78	92.4		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	434 / 217	66 LB-FT 148 %	125 LB-FT 281 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	2.9 LB-FT^2	35 LB-FT^2	20 SEC.	2	500 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						
311	210	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

Data Sheet

Date: 1/22/2018

825098.00



Data @ 460 V

Motor Load Data

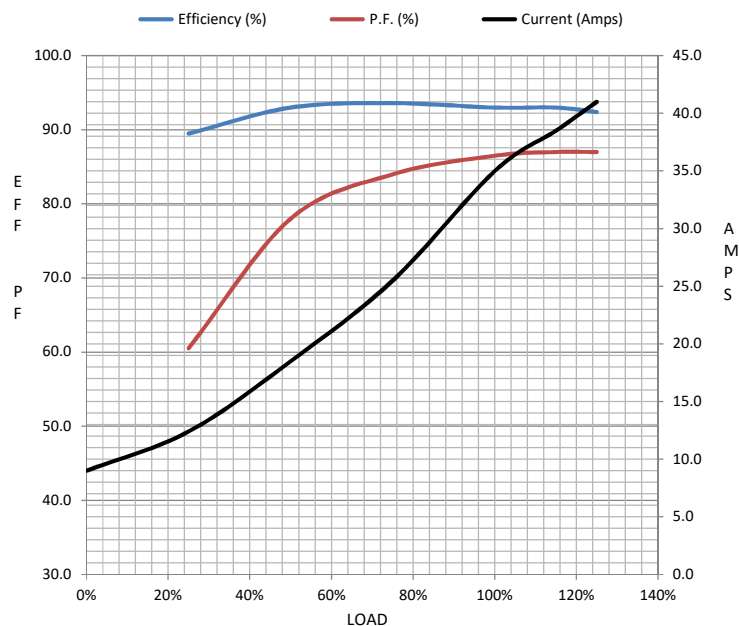
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.0	12.4	18.5	25.5	35.0	38.5	41.0	217	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	56.0	66.0	
RPM	3600	3590	3578	3567	3555	3,547	3542	0	
Efficiency (%)		89.5	93.0	93.6	93.0	93.0	92.4		
P.F. (%)	7.0	60.5	78.0	84.0	86.5	87.0	87.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3335	3555	3600
Current (Amps)	217	200	140	35.0	9.0
Torque (ft-lb)	66.0	56.0	125	44.5	0.00

Information Block

HP	30.0			
Sync. RPM	3600			
Frame	286			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460#190/380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60		° C	
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000		feet	
Rotor/Shaft wk²	2.90		Lb-Ft²	
Ref Wdg	K286292 NONE			
Sound Pressure @ 1M	72		dBA	
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS311004LE-1425			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1890	0.1040	0.7560	0.6620	29.0120



Speed - Torque Curve

