

PRODUCT INFORMATION PACKET

Model No: 824554.00

Catalog No: 824554.00

Severe Duty Motors, TEAO, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1170 RPM, 213T Frame



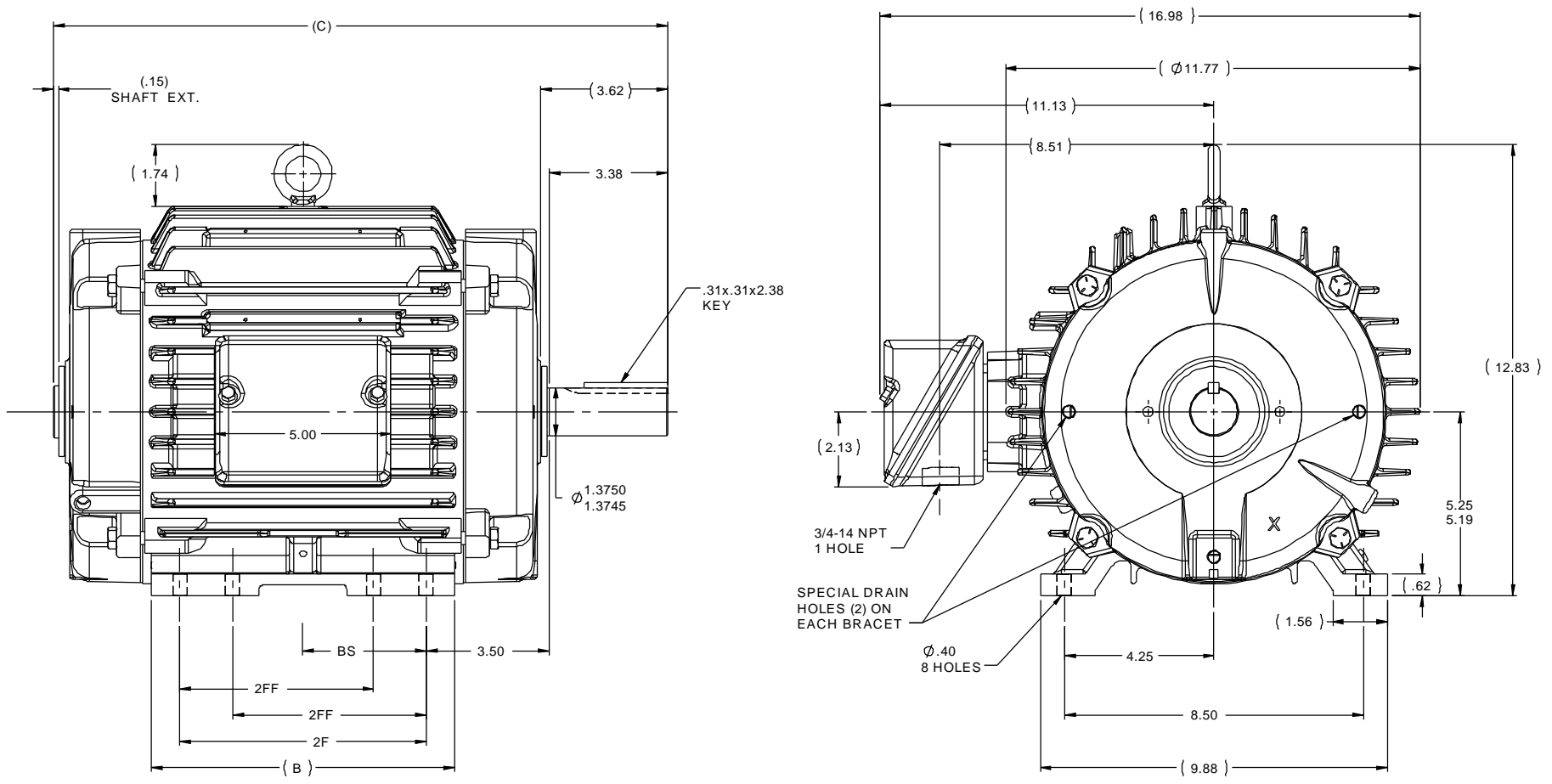
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Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.8/4.4 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	213T	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	N	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	2.785 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	17.47 in
Frame Length	9.12 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 10:1		
Connection Drawing	EE7308-LE	Outline Drawing	037875LE-912



NOTES:

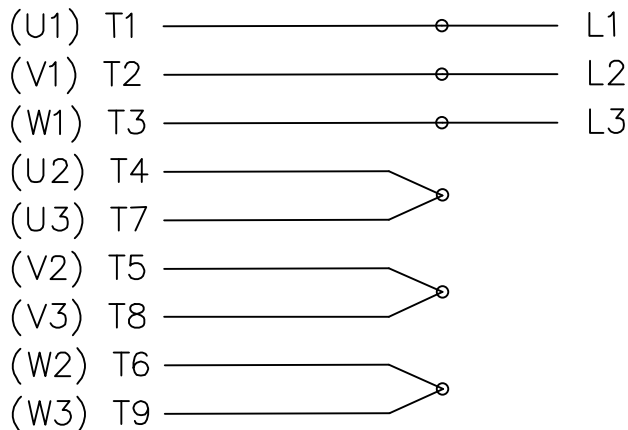
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1212	215	20.47	11.76	10	7	5
912	213/215	17.47	8.63	7	5.5	3.5
DASH	FRAME	C	B	2F	2FF	BS

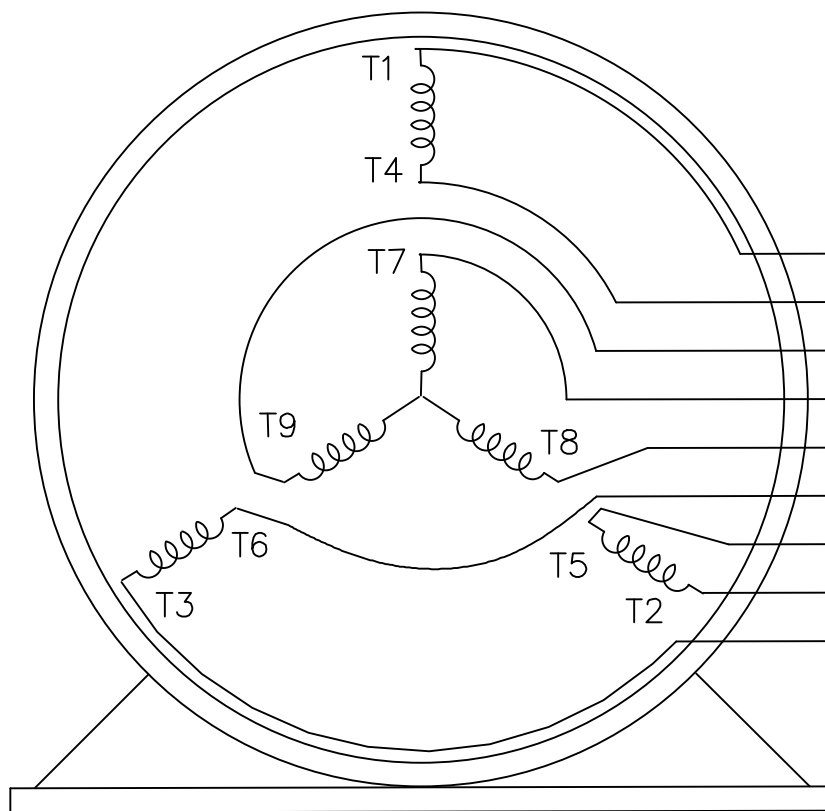
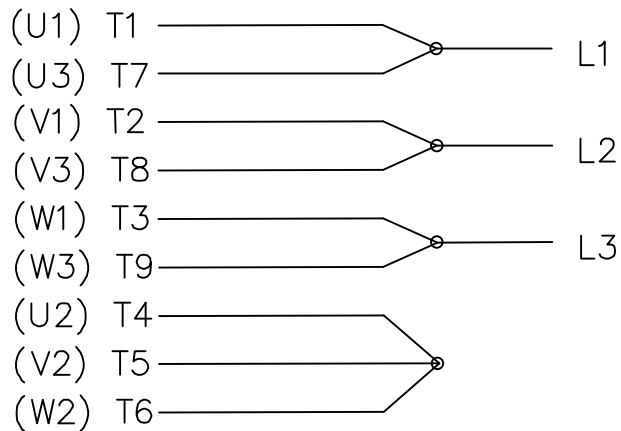
		TOLERANCES UNLESS SPECIFIED		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN UD 08/13/13	
		DEC	INCHES					CHK	SR 08/13/13
		.X	±.1					APPR	
		.XX	±.03			TITLE	OUTLINE	SCALE	1:1
		.XXX	±.005				210FR. - TEAO - STD - T - INPRO SEALS & DRAIN HOLES	REF	037873LN
		.XXXX	±.0005			MAT'L		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH		PREV	
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THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						DIST	037875LE	B	037875LE
								REV	

THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE




- T1 (U1)
- T4 (U2)
- T9 (W3)
- T7 (U3)
- T8 (V3)
- T6 (W2)
- T5 (V2)
- T2 (V1)
- T3 (W1)

VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN HLB 04-29-2002		
				DEC.	INCHES		CHK	ML 05-03-2002	
				.X	±.1		APPD	GK 05-03-2002	
				.XX	±.01	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR	SCALE 1=1		
2	ADDED IEC NOTATIONS... (U1), (V1) ETC. (MU105786)	REP 01-11-2012	DR	.XXX	±.005		REF		
1	NEW DRAWING	HLB 05-03-2002	ML	.XXXX	±.0005	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	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 EE7308-LE		SIZE	DRAWING NO. PAGE OF	REV.
				DIST	LB-WP	A	EE7308-LE	2	

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308-LE
 OUTLINE: 037875LE-912
 WINDING: K213660

CAT #: 824554.00

R7 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1200	1170	213T	TEAO	TTN	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	8.8/4.4	LINE OR INVERTER	CONT AOM	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	89.5	1/2 LD EFF	87.5	GTD EFF	87.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	70.0	3/4 LD PF	62.0	1/2 LD PF	49.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
13.5 LB-FT	32.0	34.0 LB-FT 252%	47.5 LB-FT 352%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.80 LB-FT²	90 LB-FT²	25 SEC.	2	155 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	NONE	NO	NONE	UE - LEESON (EPO)

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
6307	6208						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
1.627	1.589	6.763	7.785	95.063	0.080	ODE

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE	
	NONE PPR	

DATE: 2/22/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	NONE
	VOLTAGE: NONE	HZ:
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/29/2018

824554.00



Data @ **460 V**

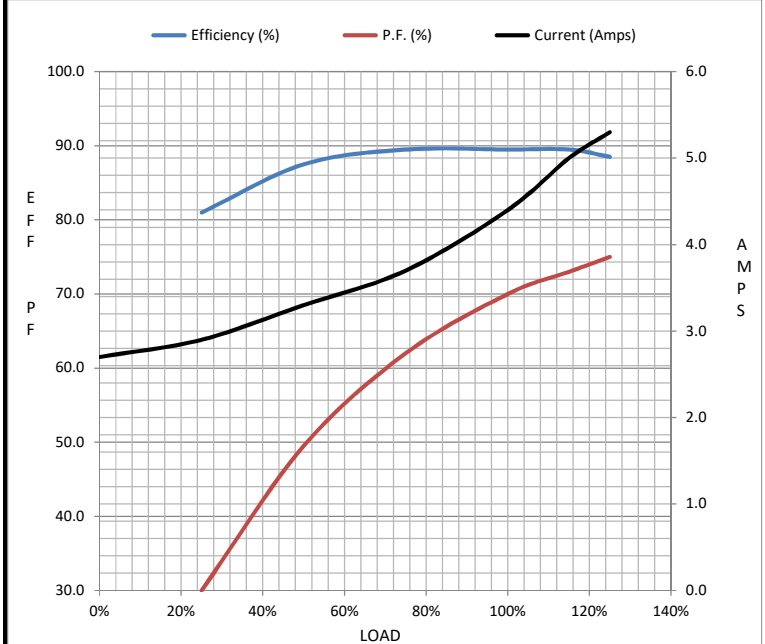
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.70	2.90	3.3	3.7	4.4	5.0	5.3	32.0
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	34.0
RPM	1200	1194	1186	1180	1170	1,168	1166	0
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5	
P.F. (%)	6.0	30.0	49.5	62.0	70.0	73.0	75.0	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1025	1170	1200
Current (Amps)	32.0	28.0	20.0	4.4	2.70
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00

Information Block				
HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TEAO			
Construction	TTN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT AOM			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.80 Lb-Ft ²			
Ref Wdg	K213660 R7			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	037875LE-912			
Conn. Diag	EE7308-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.6270	1.5890	6.7630	7.7850	95.0630



Speed - Torque Curve

