

PRODUCT INFORMATION PACKET



Model No: 824555.00

Catalog No: 824555.00

Severe Duty Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 215T Frame,
TEAO



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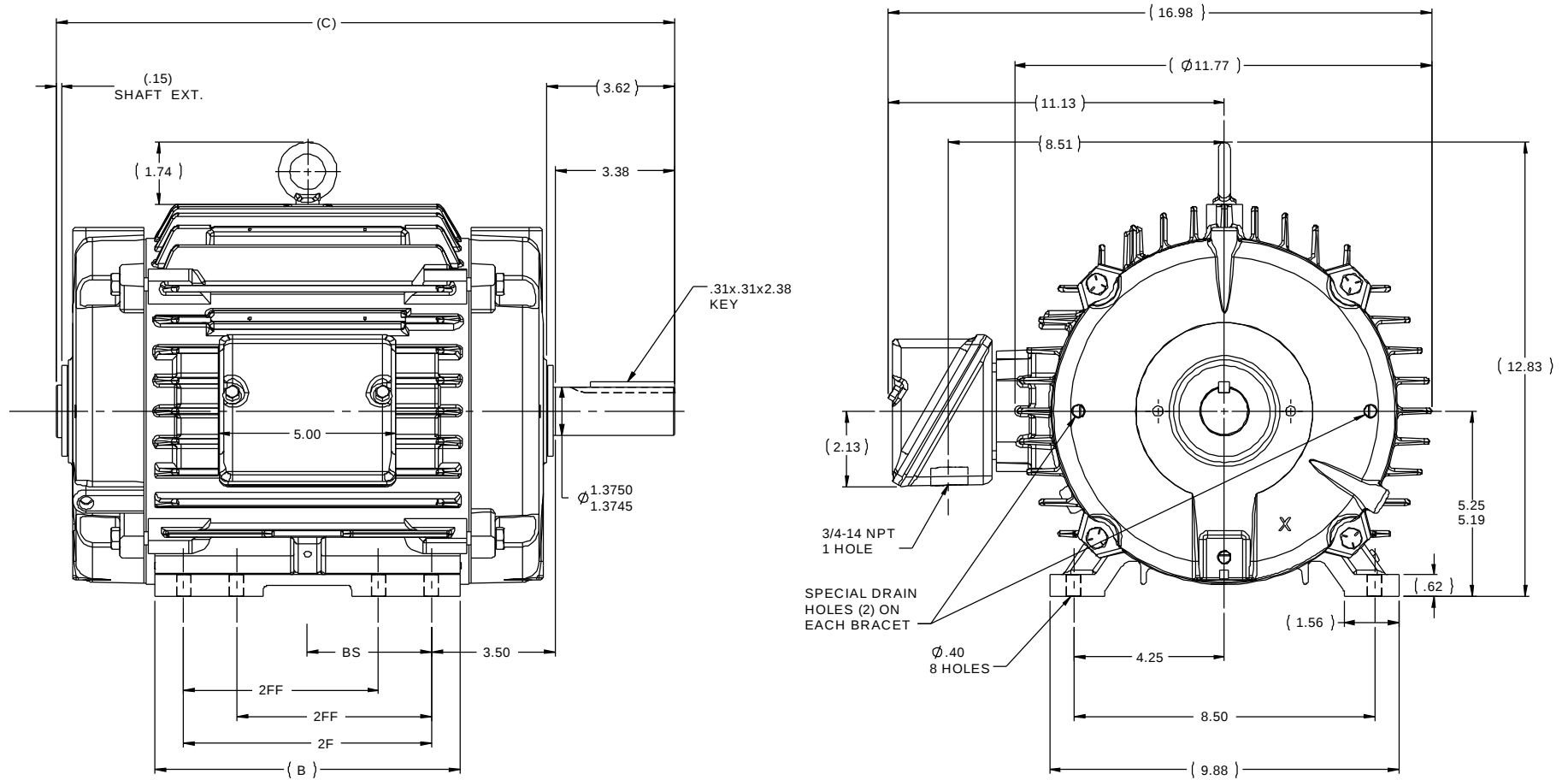


Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	1170 & 980 rpm	Service Factor	1.5 & 1.0
Frame	215T	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Efficiency	89.5 & 88 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	13.8/6.9 & 11/5.5 A	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
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	1.898 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		
Outline Drawing	037875LE-912	Connection Drawing	EE7308-LE



NOTES:

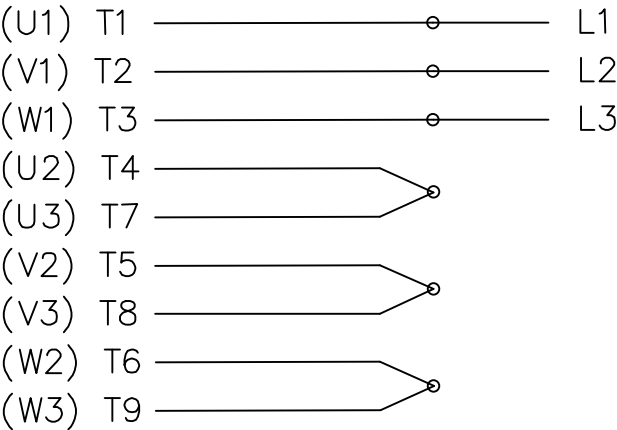
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

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

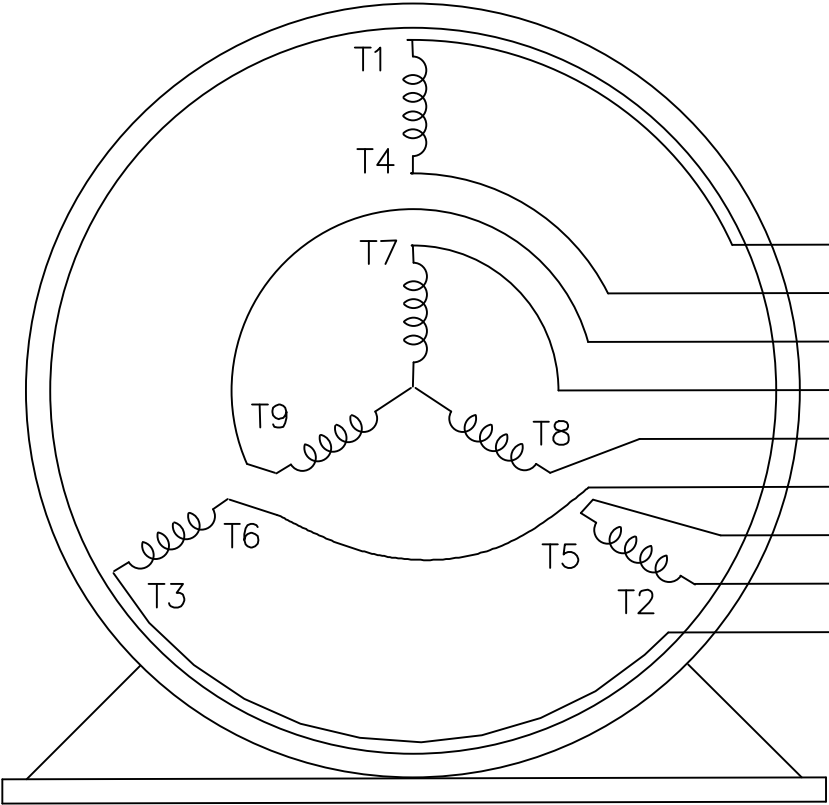
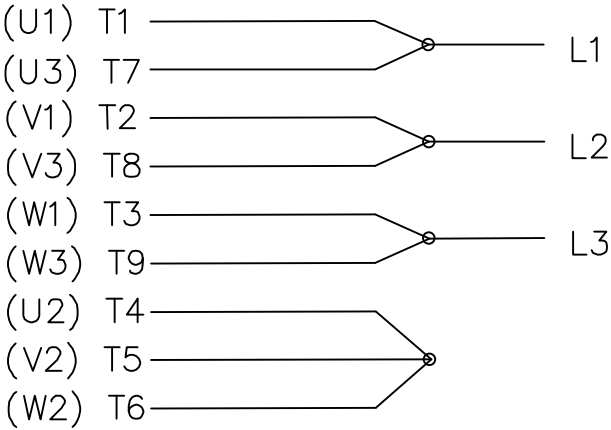
TOLERANCES UNLESS SPECIFIED		DEC INCHES		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN UD 08/13/13	
								CHK	SR 08/13/13
				X	±.1			APPR	
				XX	±.03			SCALE	1:1
				XXX	±.005			REF	037873LN
				XXXX	±.0005			FMF	
								PREV	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH			
THIS DRAWING IN 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	CAD FILE	SIZE	DRAWING NO
						DIST	037875LE	B	037875LE

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				SCALE 1=1			
2	ADDED IEC NOTATIONS... (U1), (V1) ETC. (MU105786)	REP 01-11-2012	DR	.XXX	±.005	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR						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		



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: K2156157

CAT #: 824555.00

R8 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1200	1170	215T	TEAO	TTN	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	13.8/6.9&11/5.5	LINE OR INVERTER	CONT AOM	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	90.2	1/2 LD EFF	88.5	GTD EFF	87.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	77.0	3/4 LD PF	70.5	1/2 LD PF	59.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
22.5 LB-FT	46.0	46.0 LB-FT 204%	75.0 LB-FT 333%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA	0.95 LB-FT²	110 LB-FT²	25 SEC.	2	215 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
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
1.136	1.181	4.788	5.226	69.296	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: 1/19/2018			BRAKE: NONE NONE
			FT-LB: NA VOLTAGE: NONE UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/19/2018

824555.00



Data @ 460 V

Motor Load Data

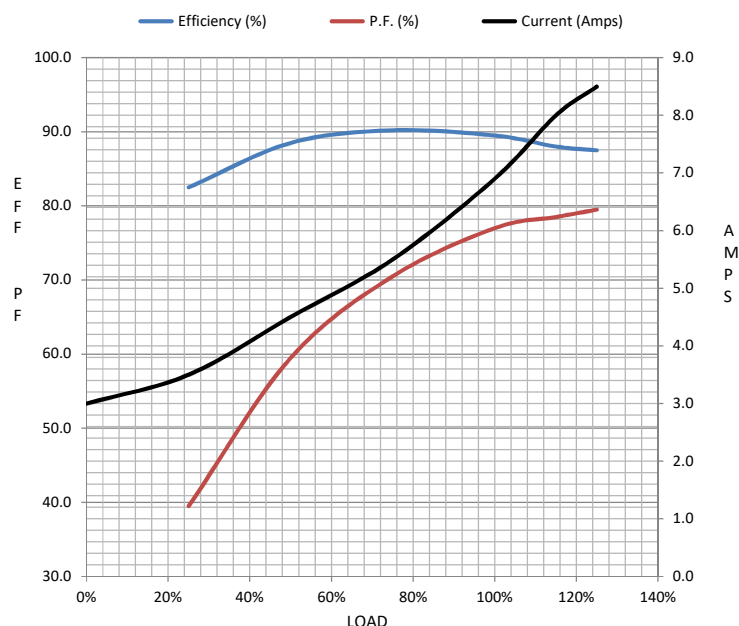
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	3.5	4.5	5.5	6.9	8.0	8.5	46.0	
Torque (ft-lb)	0.00	5.5	11.0	16.5	22.5	26.0	28.5	46.0	
RPM	1200	1195	1185	1175	1170	1,165	1160	0	
Efficiency (%)		82.5	88.5	90.2	89.5	88.0	87.5		
P.F. (%)	6.5	39.5	59.5	70.5	77.0	78.5	79.5	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1030	1170	1200
Current (Amps)	46.0	40.0	30.0	6.9	3.0
Torque (ft-lb)	46.0	40.0	75.0	22.5	0.00

Information Block

HP	5.0			
Sync. RPM	1200			
Frame	215			
Enclosure	TEAO			
Construction	TTN			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT AOM			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.95 Lb-Ft²			
Ref Wdg	K2156157 R8			
Sound Pressure @ 1M	55 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
1.1360	1.1810	4.7880	5.2260	69.2960



Speed - Torque Curve

