

PRODUCT INFORMATION PACKET



Model No: 825089.00
Catalog No: 825089.00
Explosion Proof Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
213T Frame, EPFC



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Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	213T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	20/10 & 17.4/8.7 A	Power Factor	76.5
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	H
Drive End Bearing Size	307	Opp Drive End Bearing Size	208
UL	UL Listed; also, UL Certified for Canada	CSA	N
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	4	Rotation	Reversible
Resistance Main	1.18 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	19.63 in
Frame Length	9.12 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 10:1		
Connection Drawing	A-EE7308T-LE	Outline Drawing	037660LE-912

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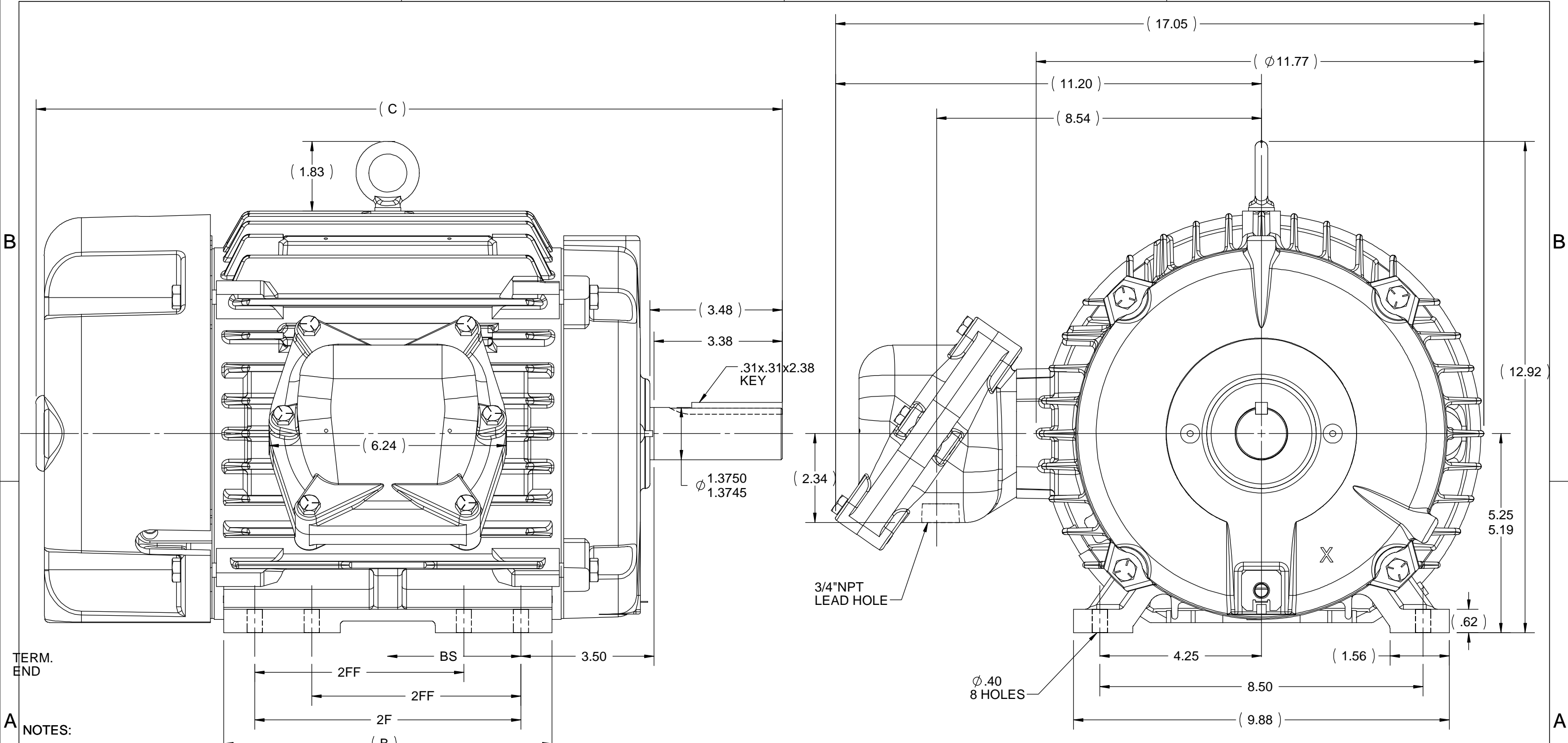
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TERM. END
A

A

- 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°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS., REBUILT FOR USE IN HAZARDOUS LOCATION".
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:				DRAWN BY	REGAL™ Regal Beloit America, Inc.		
D	MVG	11/01/2017	DEC.	INCH	mm	ANGLE	AK	DESCRIPTION OUTLINE 210 FR.EPFC		
ECO	APPROVED BY	DATE	.X	±0.1	[±2.5]	±7° 30"	DATE			
ECO-0133986	ST	11/01/2017	.XX	±0.03	[±0.76]		10/28/2009	APPROVED BY		
ECO DESCRIPTION			.XXX	±0.005	[±0.127]		SK	DATE		
REMOVED 213 IN DASH # 1212			.XXX	±0.0005	[±0.0127]		10/28/2009	REFERENCE		
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1212	215	22.63	11.76	10	7	5	THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER	SHEET
912	213/215	19.63	8.63	7	5.5	3.5	B	037660LE	1 OF 1	
DASH	FRAME	C	B	2F	2FF	BS				

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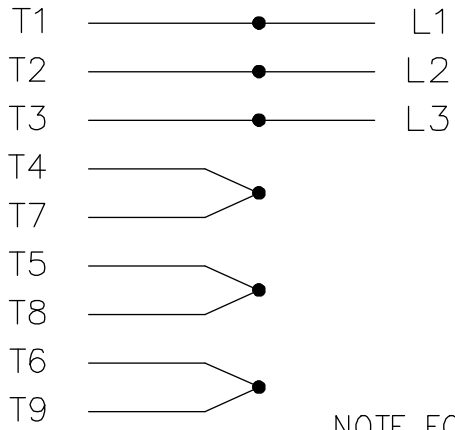
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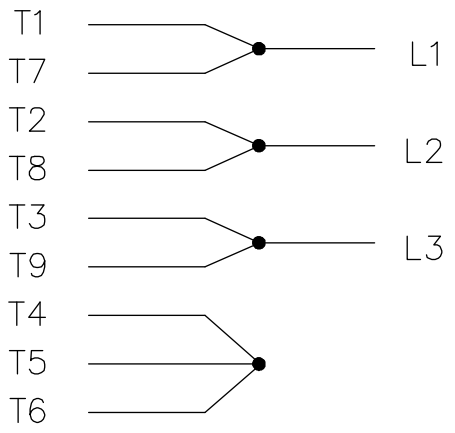
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

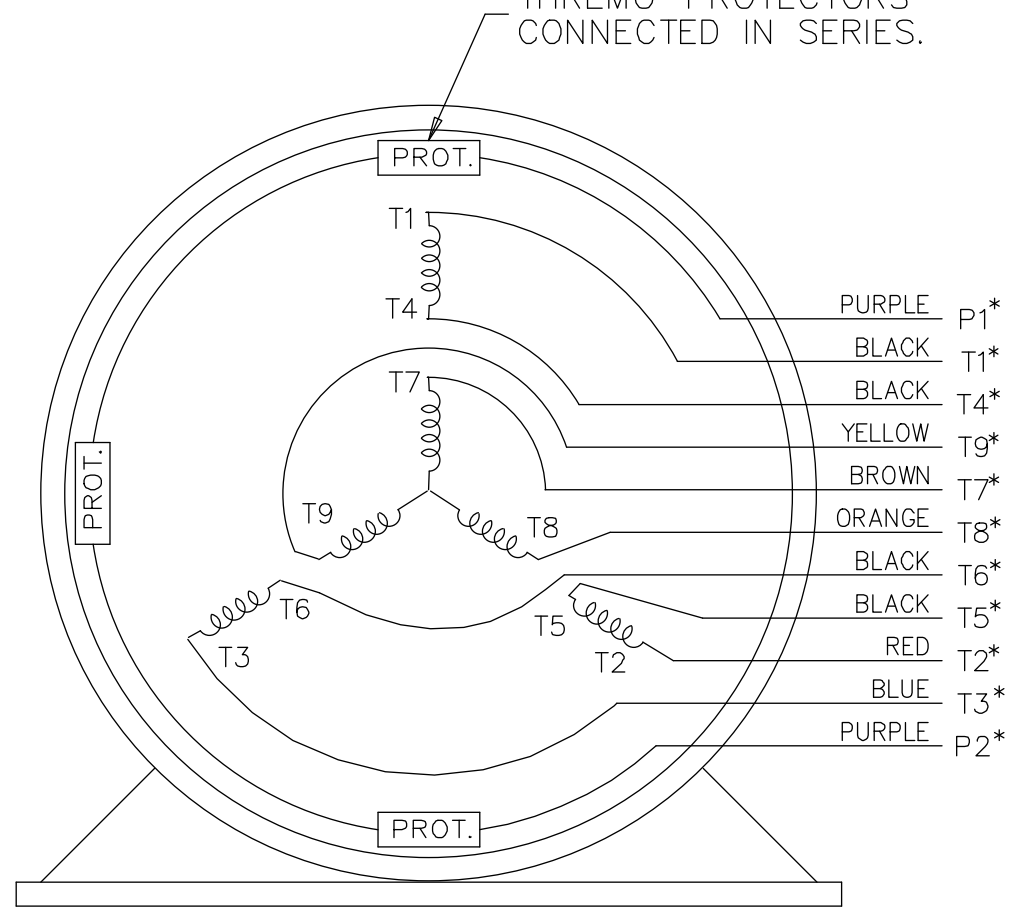


NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN TJB 05-07-2002				
					DEC.	INCHES						
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.				CHK ML 05-08-2002				
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1			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			FMF				
					±7'30"			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 EE7308T_LE	SIZE A	DRAWING NO. EE7308T-LE	PAGE OF	REV. 05
							DIST LB-WP-LE					



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

TITLE CONNECTION DIAGRAM
3 PHASE - DUAL VOLTAGE MOTOR

Data Sheet

Date: 2/1/2018

825089.00



Data @ 460 V

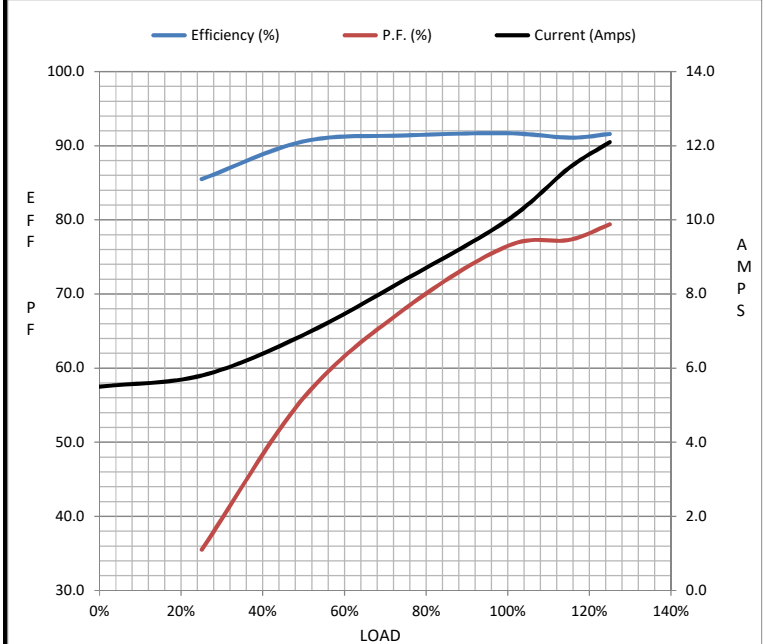
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.5	5.8	6.9	8.4	10.0	11.4	12.1	67.5
Torque (ft-lb)	0.00	5.5	11.0	16.5	22.2	25.5	28.0	52.9
RPM	1800	1794	1785	1779	1770	1,765	1762	0
Efficiency (%)		85.5	90.6	91.4	91.7	91.4	91.6	
P.F. (%)	5.0	35.5	56.0	68.1	76.5	77.3	79.4	42.6

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1770	1800
Current (Amps)	67.5	57.0	41.0	10.0	5.5
Torque (ft-lb)	52.9	49.0	75.0	22.2	0.00

Information Block				
HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.85 Lb-Ft ²			
Ref Wdg	K2134268 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	037660LE-912			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7600	1.1080	2.4580	3.1730	50.4140



Speed - Torque Curve

