

# PRODUCT INFORMATION PACKET



Model No: 811624.00  
Catalog No: 811624.00  
Speed Ratio Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 215TC Frame, TENV



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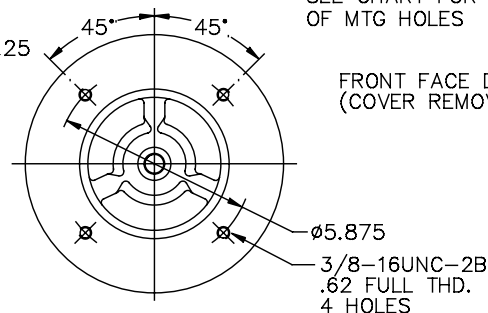
## Nameplate Specifications


Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	15.4/7.7 A	Speed	1165 rpm
Service Factor	1	Phase	3
Efficiency	84 %	Power Factor	71
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	M
Frame	215TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

## Technical Specifications

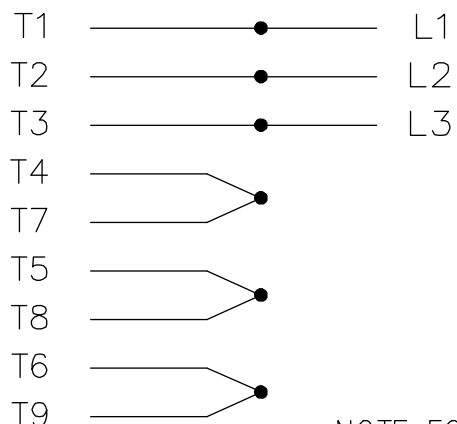
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	1.68 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	20.54 in
Frame Length	10.25 in	Shaft Diameter	1.375 in
Shaft Extension	3.37 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Outline Drawing	SS330203-1025	Connection Drawing	EE7308T-LE





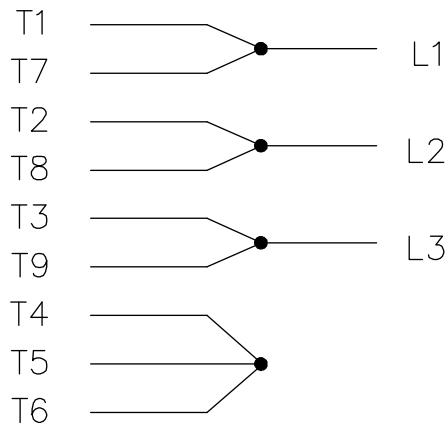
					TOLERANCES UNLESS SPECIFIED	 <b>Regal Beloit America, Inc.</b>	DRAWN DRS 07-19-2006
					DEC. INCHES		CHK ML 07-19-2006
				.X ±.1			APPD GK 07-19-2006
3	UPDATED TO REGAL LOGO	SAJ 07-27-2015	ST .XX ±.03	TITLE OUTLINE			SCALE 1=3.5
2	UPDATED B5 DIMENSION ECO-0047490	JWO 04-30-2014	EH .XXX ±.005	210 FR. - TENV - DBL C' FACE			REF 218THLT/7776
1	UPDATED DRAWING	RJW 04-12-2007	.XXXX ±.0005	MAT'L			FMF DES. DEV.
NO.	REVISION	BY & DATE	CHK ANG ±1/2"	FINISH			PREV SS330105
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RFP DIST LB CAD FILE SS330203						B SIZE	DRAWING NO. PAGE OF REV.
						SS330203	3

# 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

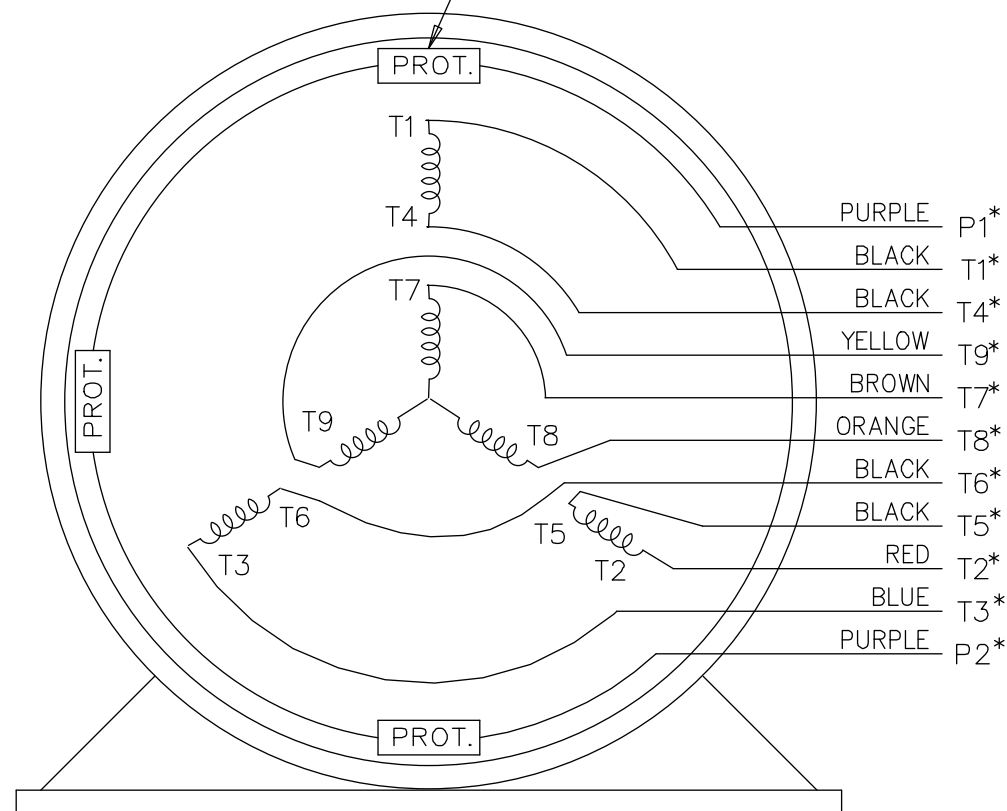


\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.


# 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					APPD TB 05-08-2002			
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02	TITLE CONNECTION DIAGRAM 3 PHASE – DUAL VOLTAGE MOTOR					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						A	EE7308T-LE		05



1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-277-8810

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308T-LE

CAT #: 811624.00

OUTLINE: SS330203-1025

WINDING: K2156126

NONE 6

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1200	1165	215TC	TENV	TTL	M	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	15.4/7.7	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	84.0	3/4 LD EFF	84.0	1/2 LD EFF	81.5	GTD EFF	ELECT. TYPE
F.L. PF	71.0	3/4 LD PF	64.0	1/2 LD PF	51.0	81.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
22.5 LB-FT	62.5	69.5 LB-FT 309%	87.0 LB-FT 387%	85

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
60 dBA	69 dBA		0.95 LB-FT²	0 LB-FT²	0 SEC.	0	155 LB.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL						
6309 6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
1.13	1.25	3.709	2.573	51.972	0.080	ODE

* N O T E S *			INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED  ENCODER: NONE NONE NONE NONE PPR
DATE: 9/10/2018		BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:	
		UL: Y-(LEESON UL REC)	

## Data Sheet

Date: 9/10/2018

811624.00



Data @ 460 V

## Motor Load Data

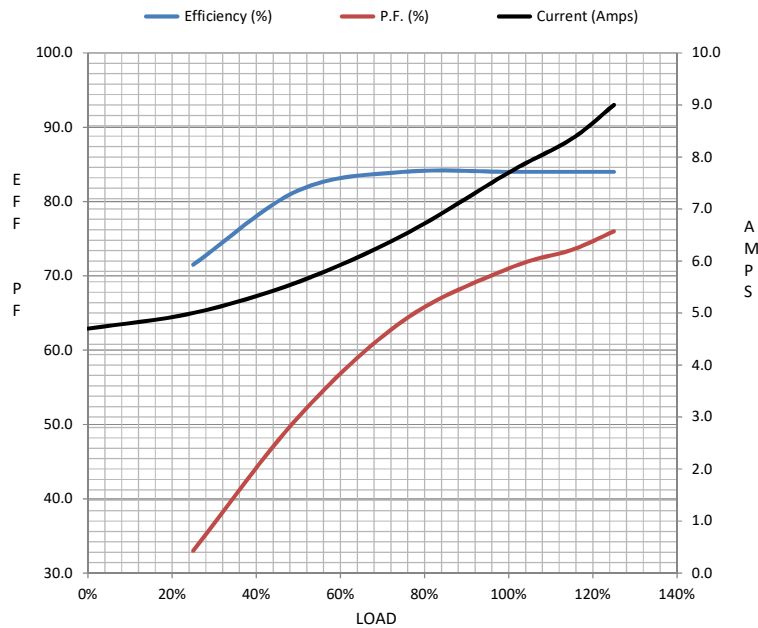
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.7	5.0	5.6	6.5	7.7	8.4	9.0	62.5	
Torque (ft-lb)	0.00	5.5	11.0	17.0	22.5	25.5	28.5	69.5	
RPM	1200	1190	1180	1172	1165	1,160	1152	0	
Efficiency (%)		71.5	81.5	84.0	84.0	84.0	84.0		
P.F. (%)	9.0	33.0	51.0	64.0	71.0	73.5	76.0	47.0	

## Motor Speed Data

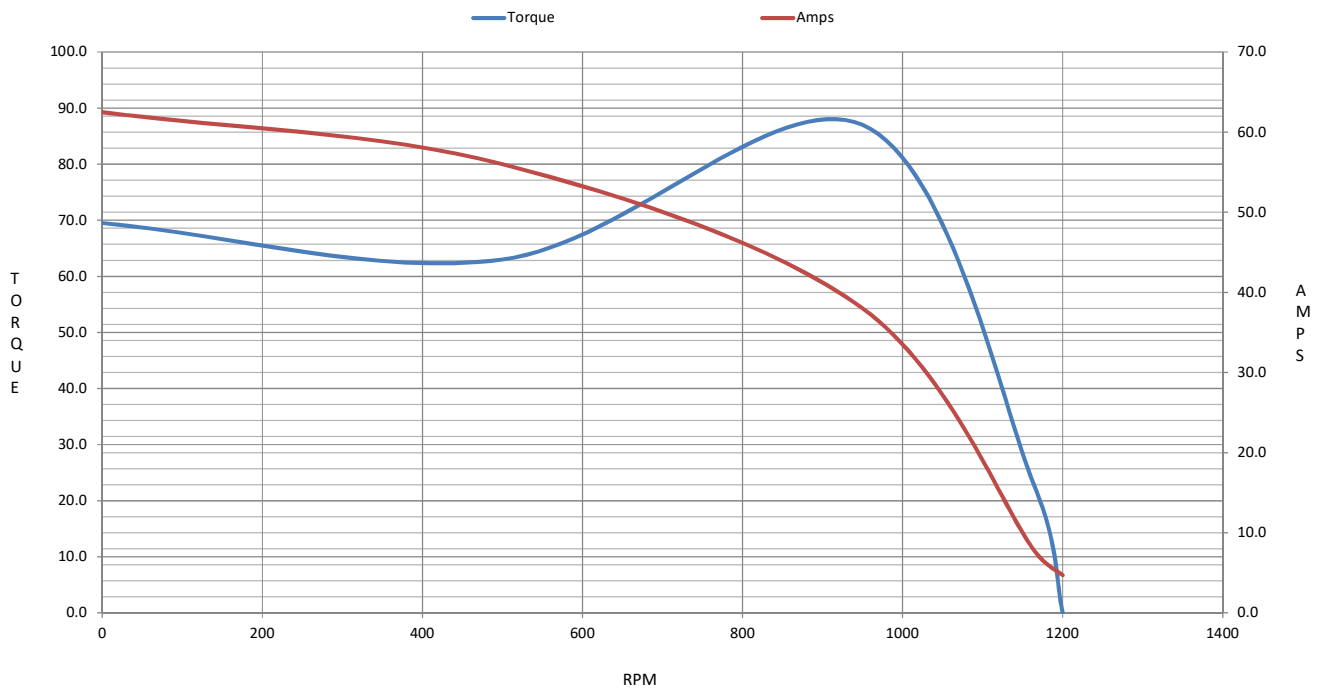
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	950	1165	1200
Current (Amps)	62.5	56.0	38.0	7.7	4.7
Torque (ft-lb)	69.5	63.0	87.0	22.5	0.00

## Information Block

HP	5.0			
Sync. RPM	1200			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460	V		
Frequency	60	Hz		
Design	B			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	85	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.95	Lb-Ft²		
Ref Wdg	K2156126	NONE		
Sound Pressure @ 1M	60	dBA		
VFD Rating	CONSTANT 1000:1			
Outline Dwg	SS330203-1025			
Conn. Diag	EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.1300	1.2500	3.7090	2.5730	51.9720



## Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 811624.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 811624.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**