

# PRODUCT INFORMATION PACKET



Model No: LM16755  
Catalog No: LM16755  
General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
215TC Frame, TEFC



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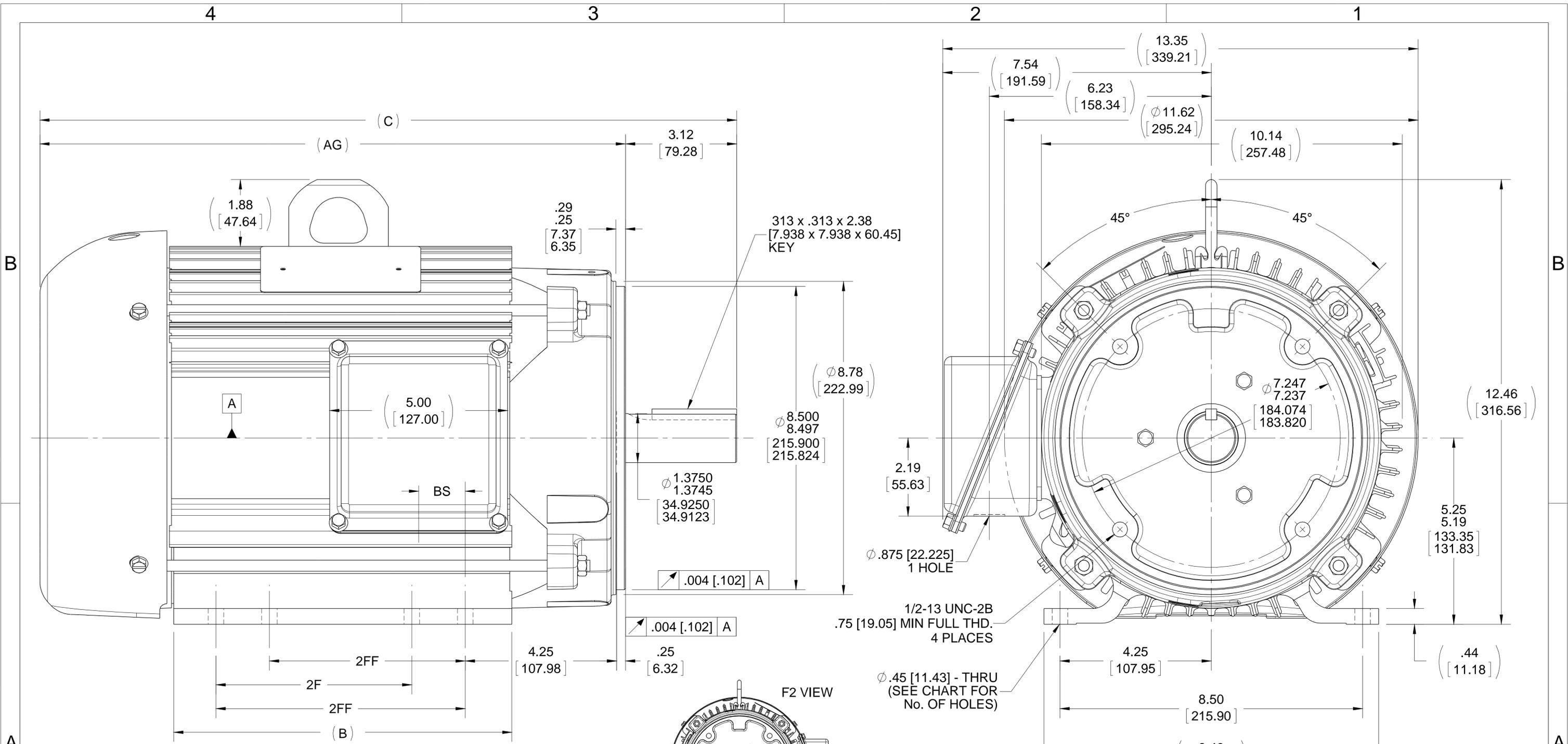
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>10 &amp; 7.5 Hp</b>
Output KW	<b>7.5 &amp; 5.6 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3535 &amp; 2950 rpm</b>	Service Factor	<b>1.25 &amp; 1.15</b>
Frame	<b>215TC</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>91.7 &amp; 92 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>23.6/11.8 &amp; 21/10.5 A</b>	Power Factor	<b>87</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Drive End Bearing Size	<b>208</b>	Opp Drive End Bearing Size	<b>206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.8 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Aluminum</b>
Shaft Type	<b>T</b>	Overall Length	<b>20.57 in</b>
Frame Length	<b>10.50 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.12 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Inverter Load	<b>VARIABLE 20:1</b>		
Outline Drawing	<b>SS330102LN-1050</b>	Connection Drawing	<b>EE7308-LN</b>





NOTES:  
 1- BOX CAN BE ROTATED IN 90° STEPS.  
 2- NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

DASH	FRAME	B	C	AG	2F	2FF	BS	No. OF MTG HOLES
800	213TC	8.12 [206.25]	18.07 [458.98]	14.95 [379.73]	5.50 [139.70]	---	1.33 [33.76]	4
950	213/5TC	9.62 [244.35]	19.57 [497.08]	16.45 [417.83]	5.50 [139.70]	7.00 [177.80]	1.33 [33.76]	8
1050	215TC	10.62 [269.75]	20.57 [522.48]	17.45 [443.23]	7.00 [177.80]	8.00 [203.20]	1.33 [33.76]	8

DRAWING REVISION F  
 ECO ECO-0073312  
 ECO DESCRIPTION  
 UPDATED TO CURRENT STADNARDS  
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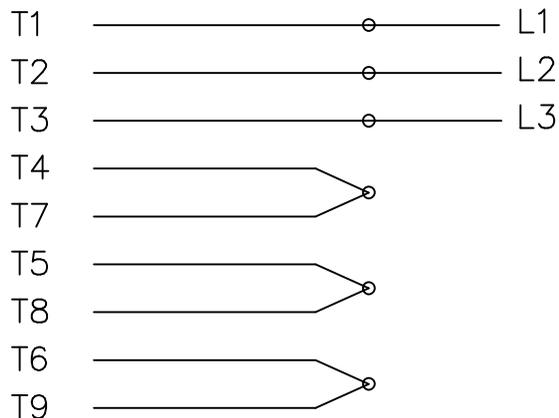
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 DEC. .X ±0.1 [±2.5] ANGLE ±7' 30"  
 .XX ±0.03 [±0.76]  
 .XXX ±0.005 [±0.127]  
 .XXXX ±0.0005 [±0.0127]  
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°  
 CORNER FILLETS: R.02 [.51]  
 MACHINED SURFACES: 200 INCH mm 5.1  
 mm SHOWN IN [BRACKETS]

DRAWN BY MJK  
 DATE 08-30-2004  
 APPROVED BY JPL  
 DATE 09-02-2004  
 REFERENCE  
 THIRD ANGLE PROJECTION

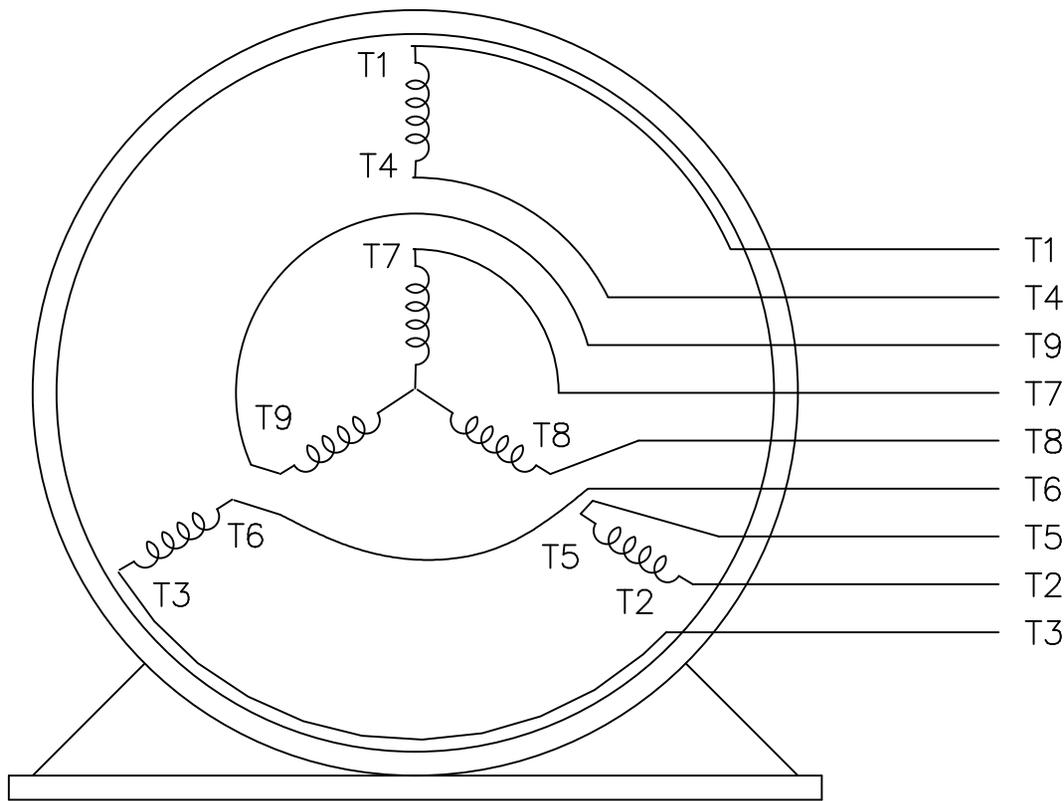
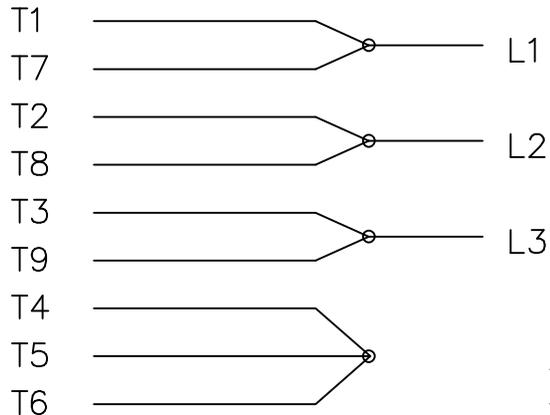
**REGAL**™ Regal Beloit America, Inc.  
 DESCRIPTION  
**OUTLINE**  
 210TC FR - ALUM FR - TEFC  
 MATERIAL PROCESS/FINISH  
 SIZE B DRAWING NUMBER **SS330102LN** SHEET 1 OF 1

THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

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

OPTIONAL CORD  
CONNECTION

L1 — WHITE  
L2 — RED  
L3 — BLACK

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	DATE				
				DEC.	INCHES							
				.X	±.1		BLR	06/11/1999				
							ML	06/18/1999				
							GK	06/18/1999				
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM		SCALE 1=1				
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005	3∅ - DUAL VOLTAGE MOTOR		REF				
1	NEW DRAWING	BLR 06/18/1999	GK	.XXXX	±.0005	MAT'L.		FMF				
				ANG	±7'30"			PREV				
				RFP	CAD FILE EE7308LN			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WP	A			EE7308-LN			3



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**2100 WASHINGTON ST.  
GRAFTON, WI  
PH. 262-277-8810**

**CONN. DIAGRAM:** A-EE7308-LN

**OUTLINE:** B-SS330102LN-1050

**WINDING #:** K215295 R10 6

**CATALOG #:** LM16755

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	3600	3535&2950	215TC	TEFC	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	23.6/11.8&21/10.5	LINE OR INVERTER	CONTINUOUS	F3	1.25/1.15	40

<b>FULL LOAD EFF:</b>	91.7&92	<b>3/4 LOAD EFF:</b>	92.4	<b>1/2 LOAD EFF:</b>	91.7	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	87&88.5	<b>3/4 LOAD PF:</b>	86	<b>1/2 LOAD PF:</b>	78.5	91		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.9 LB-FT	160 / 80	30 LB-FT 201 %	46 LB-FT 309 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.7 LB-FT^2	18 LB-FT^2	15 SEC.	2	140 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (ENAMEL)

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)	ALUMINUM
208	206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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<b>INVERTER TORQUE:</b>	VARIABLE 20:1
<b>INV. HP SPEED RANGE:</b>	NONE
<b>ENCODER:</b>	NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b>	NONE NONE NONE P/N NONE NONE NONE FT-LB V NONE Hz

Data Sheet

Date: 1/23/2018

LM16755



Data @ 460 V

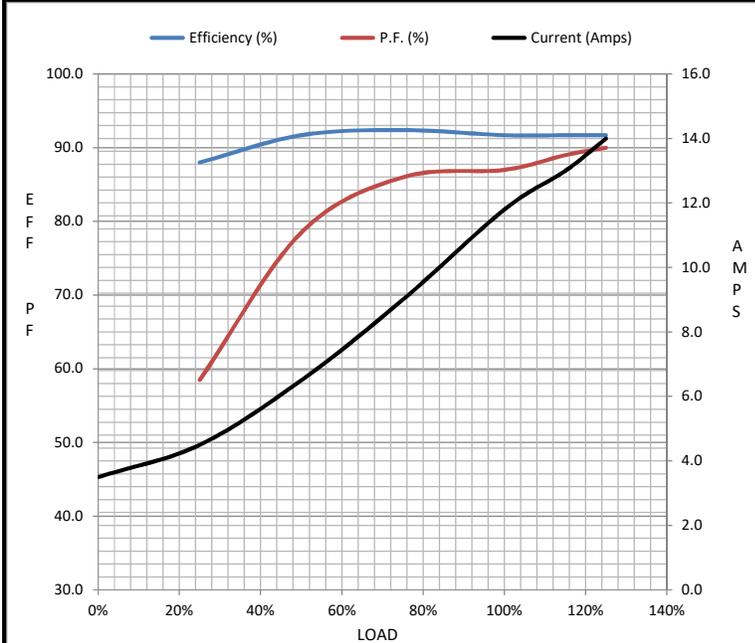
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.5	4.5	6.5	9.0	11.8	13.0	14.0	80.0
Torque (ft-lb)	0.00	3.5	7.5	11.0	14.9	17.0	18.5	30.0
RPM	3600	3585	3570	3555	3535	3,530	3525	0
Efficiency (%)		88.0	91.7	92.4	91.7	91.7	91.7	
P.F. (%)	8.5	58.5	78.5	86.0	87.0	89.0	90.0	40.0

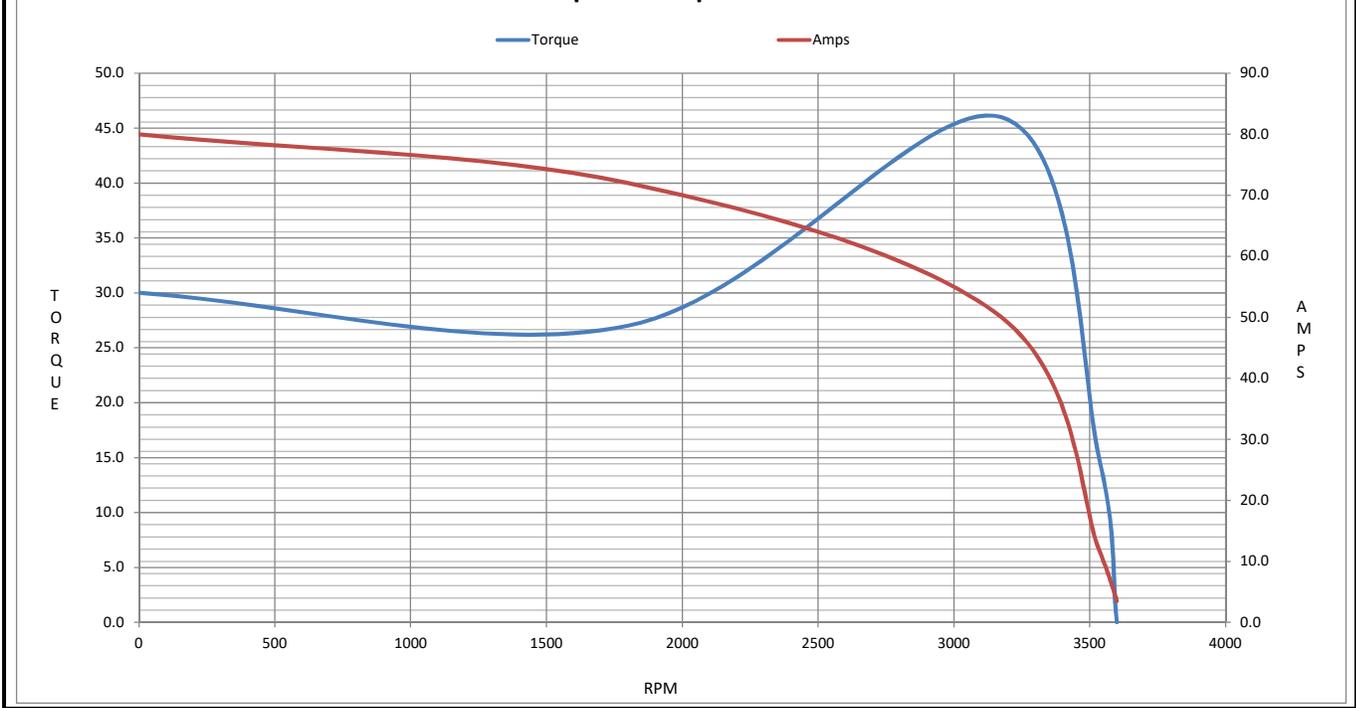
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3175	3535	3600
Current (Amps)	80.0	72.0	50.0	11.8	3.5
Torque (ft-lb)	30.0	27.0	46.0	14.9	0.00

Information Block				
HP	10.0			
Sync. RPM	3600			
Frame	215			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.70 Lb-Ft <sup>2</sup>			
Ref Wdg	K215295 R10			
Sound Pressure @ 1M	72 dBA			
VFD Rating	VARIABLE 20:1			
Outline Dwg	B-SS330102LN-1050			
Conn. Diag	A-EE7308-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5230	0.3980	1.8060	2.0620	72.1360



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 : LM16755

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

Catalog No : LM16755

Rework No : N/A

Directives :

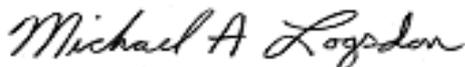
Low Voltage Directive 2014/35/EU

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**