

# PRODUCT INFORMATION PACKET



Model No: LM15565

Catalog No: LM15565

General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM,  
364TC Frame, TEFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



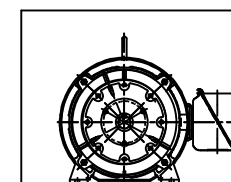
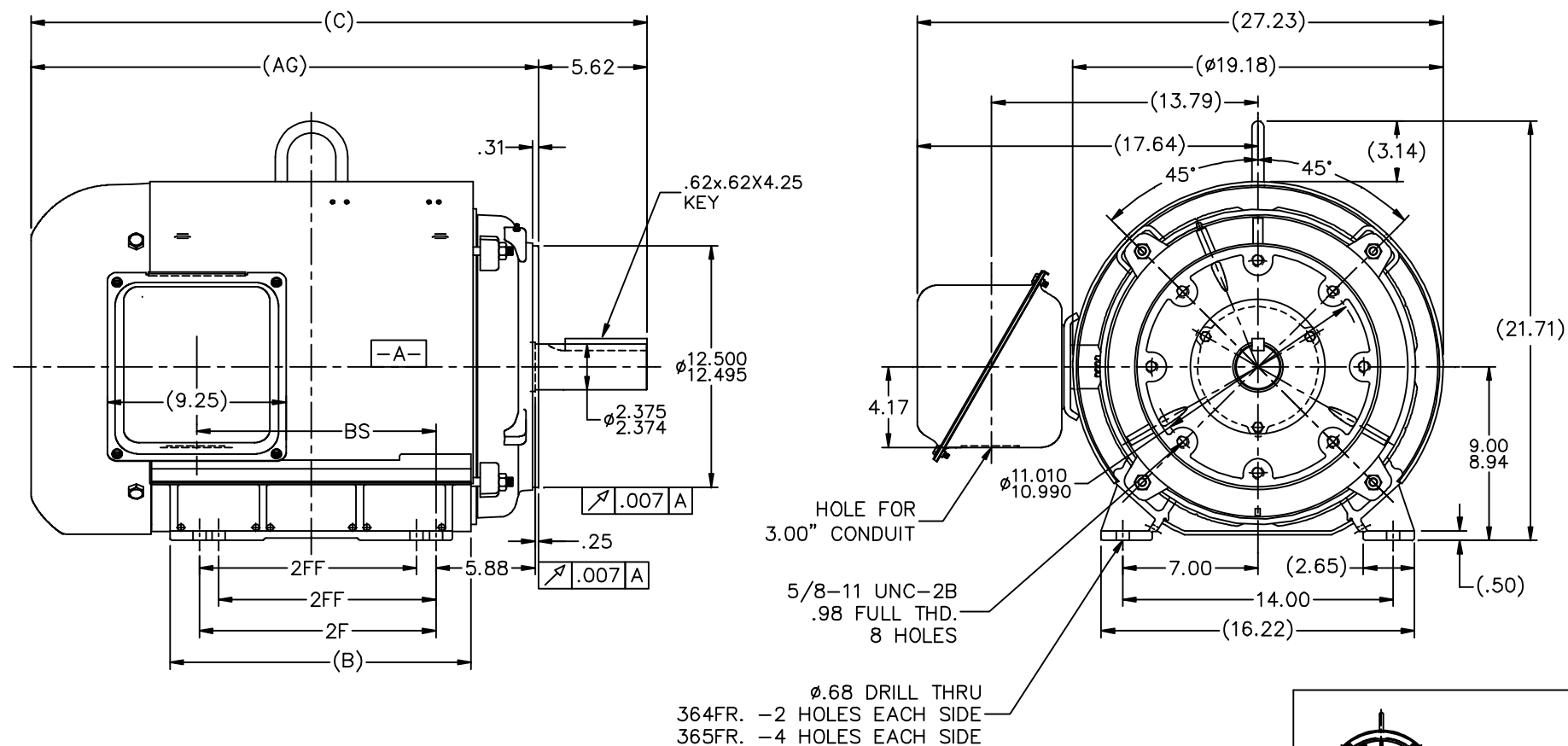


### Nameplate Specifications

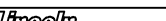
Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1188 & 990 rpm	Service Factor	1.25 & 1.0
Frame	364TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	119/59.5 & 110/55 A	Power Factor	67
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	313	Opp Drive End Bearing Size	311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	6	Rotation	Reversible
Resistance Main	.122 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	31.89 in
Frame Length	16.70 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308AA-LN	Outline Drawing	XH2F1SC1-1670



F2 VIEW

													TOLERANCES UNLESS SPECIFIED				DRAWN HLB 10-17-2002							
													DEC. INCHES				CHK ML 10-17-2002							
													.X ±.1				APPD HNH 10-17-2002							
													.XX ±.03											
															TITLE OUTLINE -- NEMA MOTORS		SCALE 1=6							
									2 UPDATED PER ISAAC# 12-1833				REP 04-25-2012		TB .XXX ±.005		360T FR. -TEFC -C' FACE -U.E. -1		REF					
1670 364T 31.89 26.27 14.61 11.25 --- -- 11.56									1 NEW DRAWING CN35344-12				HLB 10-17-2002		HNH .XXXX ±.0005		MAT'L		FMF					
1770 365T 32.89 27.27 15.61 12.25 11.25 --- 12.56									NO. REVISION				BY & DATE		CHK ANG ±730"		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 10-17-2002		CAD FILE xh2f1sc1		SIZE B		DRAWING NO. XH2F1SC1		PAGE 1 OF 1		REV. 2	
DASH FRAME C AG B 2F 2FF BS													DIST BY											

T12 \_\_\_\_\_  
 T1 \_\_\_\_\_  
 T6 \_\_\_\_\_ L1  
 T7 \_\_\_\_\_

T2 \_\_\_\_\_  
 T4 \_\_\_\_\_ L2  
 T8 \_\_\_\_\_  
 T10 \_\_\_\_\_

T3 \_\_\_\_\_  
 T5 \_\_\_\_\_ L3  
 T9 \_\_\_\_\_  
 T11 \_\_\_\_\_

LOW VOLTAGE

T12 \_\_\_\_\_ L1  
 T1 \_\_\_\_\_

T4 \_\_\_\_\_  
 T7 \_\_\_\_\_

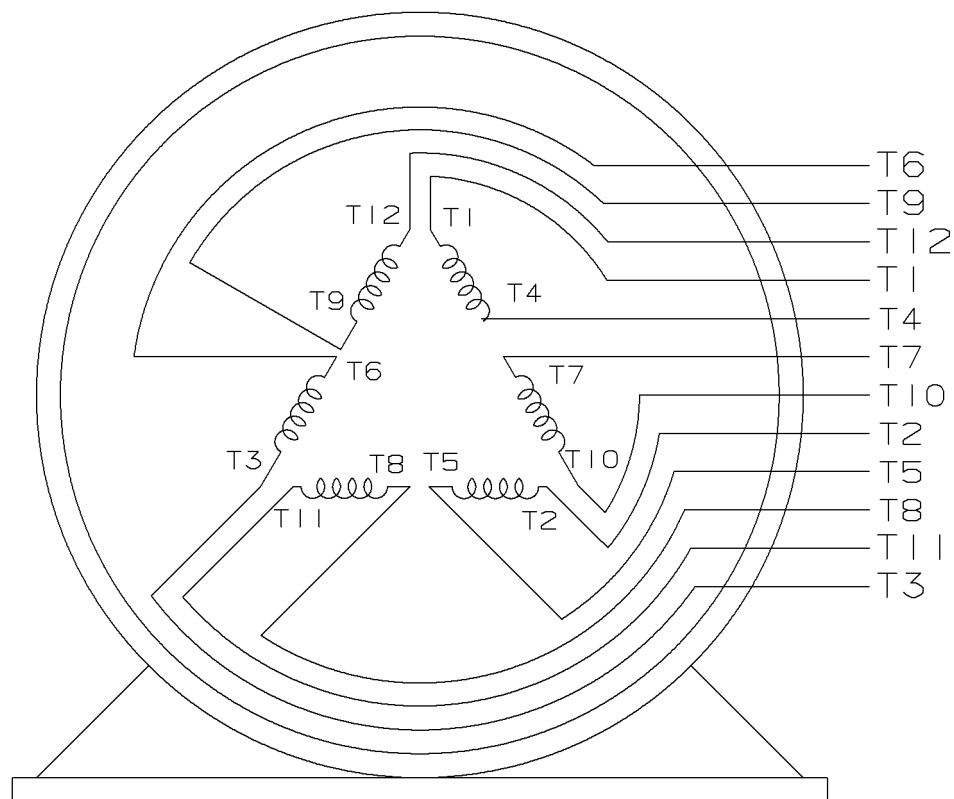
T2 \_\_\_\_\_ L2  
 T10 \_\_\_\_\_

T5 \_\_\_\_\_  
 T8 \_\_\_\_\_

T3 \_\_\_\_\_ L3  
 T11 \_\_\_\_\_

T6 \_\_\_\_\_  
 T9 \_\_\_\_\_

HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7°30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999
					FINISH		CHKD BY ML 06-18-1999
1	06-18-1999	NEW DRAWING	TRB		MATERIAL		APPD BY GK 06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN
				PURCHASED	CADD FILE NO.	EE7308AALN	

ERROR: undefined  
OFFENDING COMMAND: Pscrip  
STACK:



**CERTIFICATION DATA SHEET**

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

**CONN. DIAGRAM:** A-EE7308AA-LN

**OUTLINE:** XH2F1SC1-1670

**CATALOG # :** LM15565

**WINDING #:** L3646019 1

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30.0&22.4	1200	1188&990	364TC	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	119/59.5&110/55	WYE START DELTA RUN	CONTINUOUS	F4	1.25/1.0	40

<b>FULL LOAD EFF:</b>	94.1&93.6	<b>3/4 LOAD EFF:</b>	94.1	<b>1/2 LOAD EFF:</b>	93	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	67&65.5	<b>3/4 LOAD PF:</b>	59.5	<b>1/2 LOAD PF:</b>	47	92.4		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	580 / 290	400 LB-FT 226 %	400 LB-FT 226 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	- 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 - LINCOLN

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)	ROLLED STEEL
313	311						

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

\*  
  
N  
  
O  
  
T  
  
E  
  
S  
  
\*

<b>INVERTER TORQUE:</b>	NONE
<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 NONE V NONE Hz

## Data Sheet

Date: 1/18/2018

LM15565



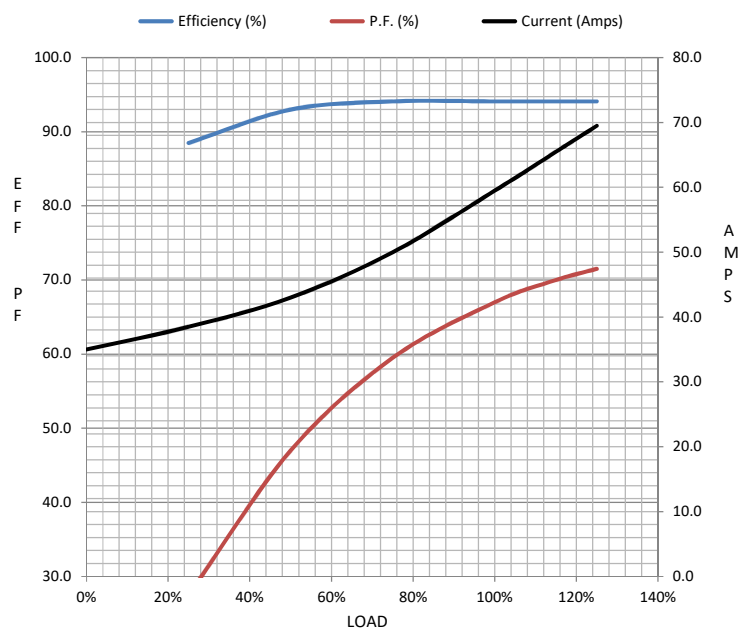
Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.0	38.5	43.0	50.0	59.5	65.5	69.5	290	
Torque (ft-lb)	0.00	44.0	88.0	132	177	204	222	400	
RPM	1200	1197	1195	1190	1188	1,186	1184	0	
Efficiency (%)		88.5	93.0	94.1	94.1	94.1	94.1		
P.F. (%)	3.0	27.5	47.0	59.5	67.0	70.0	71.5	34.0	

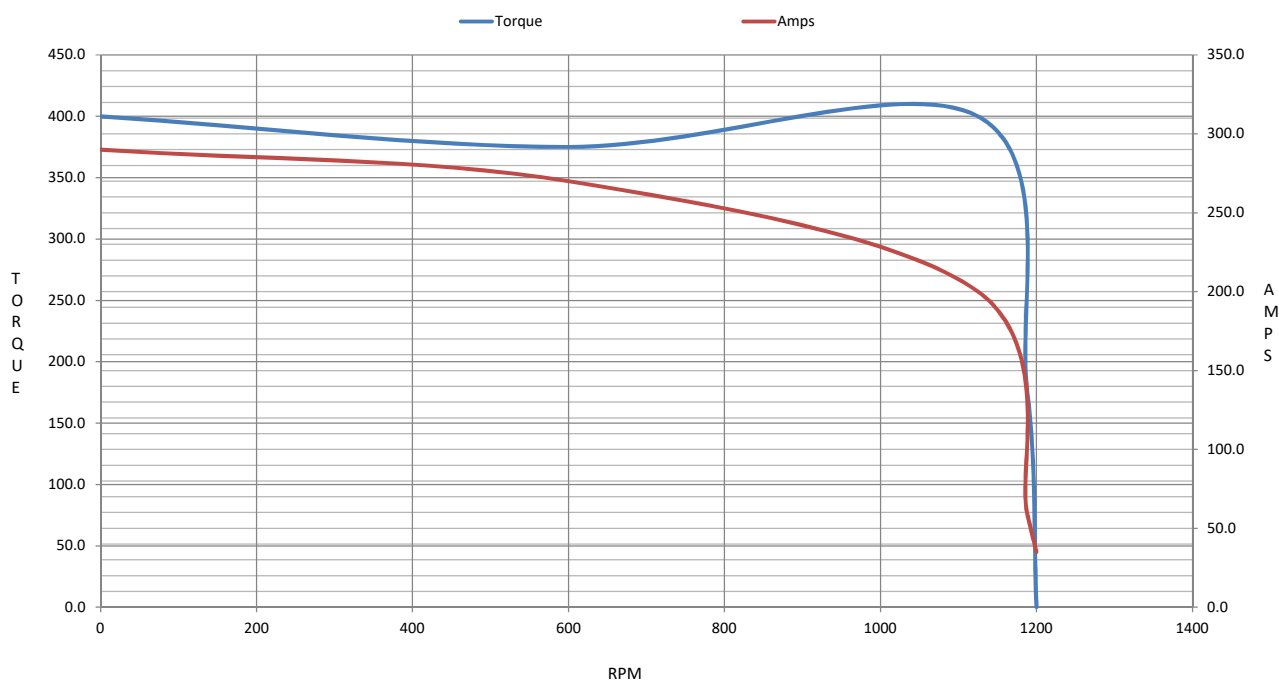
## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1125	1188	1200	HP	40.0
Current (Amps)	290	270	200	59.5	35.0	Sync. RPM	1200
Torque (ft-lb)	400	375	400	177	0.00	Frame	364



Frame	364			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L3646019	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XH2F1SC1-1670			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0850	0.0570	0.5250	1.0560	9.0040

## 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 : LM15565

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

Catalog No : LM15565

Rework No : N/A

Directives :

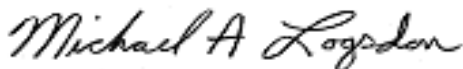
Low Voltage Directive 2014/35/EU

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**