

# PRODUCT INFORMATION PACKET



Model No: 171578.60

Catalog No: 171578.60

General Purpose Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS 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



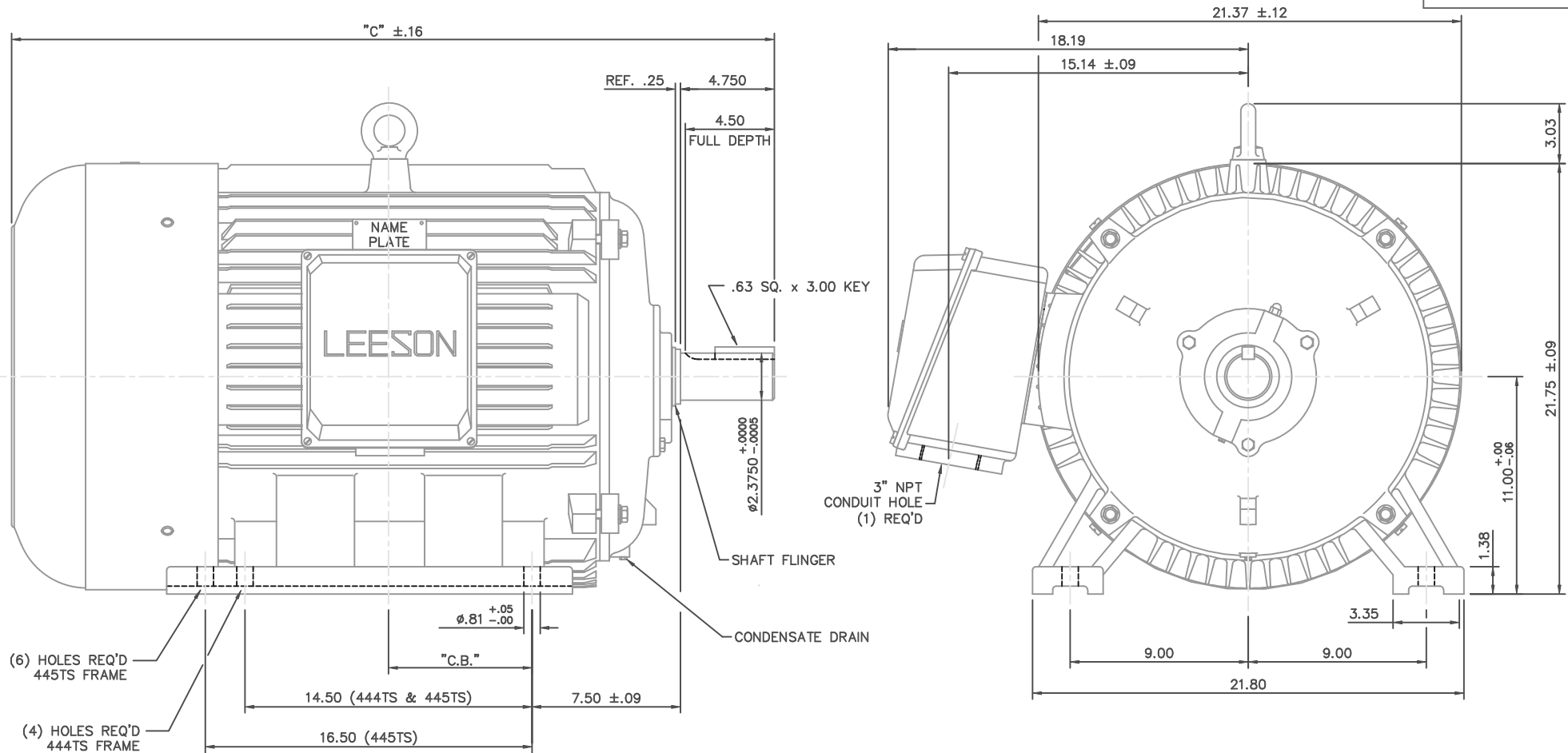


## Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	3580 & 2980 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	163 & 164 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.018 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	41.11 in
Shaft Diameter	2.375 in	Shaft Extension	4.5 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1
Connection Drawing	005190.01	Outline Drawing	16954860-445TS



						TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION					
						DECIMALS							
						.00	± .06	DRAWN	JJK 03/30/99	TITLE OUTLINE - 444TS/445TS FRAME TEFC - RIGID METS NEC/UL REQ. CON-BOX VOL.= 9750 C.C.			
						.000	± .005	CHK'D.					
01	ADDED BASE HOLES FOR 445TS FRAME			JJK	07/16/99	.0000	± .0005	APPR.	PG 03/31/99	MAT'L CAST IRON			
NO.	REVISION			BY	DATE	FRACTIONS	± 1/64	SCALE	1=5				
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							ANGLES	± 1/2"	REF.	169507	FINISH	SIZE	DRAWING NO.
							INCH/MM		FMF		B	169548-60	

## LINE LEADS

	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION			
04	ADDED MAT'L (CWLE) PER ECO-0168542	DS	6/10/2019	DECIMALS					
03	ADDED IEC DESIGNATIONS	MOL	4/27/2012	.00	± .01	DRAWN PG 05/07/82	TITLE EXT. WIRING DIAGRAM		
02	REMOVED OBSOLETE STATUS	KJH	6/28/99	.000	± .005	CH'K'D. TEM	STAR START - DELTA RUN		
01	REDRAWN ON CAD	DBT	05/30/97	.0000	± .0005	APPR. 05/07/82	MAT'L. Y-CONNECTED START (CWLE)		
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=1	DELTA CONNECTED RUN - SINGLE VOLTAGE		
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				ANGLES	± 1/2°	REF. T2E	FINISH	SIZE A	DRAWING NO. 005190-01
				INCH/MM		FMF ELECTRO POWER			



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005190.01

CAT #: 171578.60

OUTLINE: 16954860

WINDING: T22802006

NONE 3

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	3600	3580	445TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	163&164	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF		ELECT. TYPE	
F.L. PF	90.5	3/4 LD PF	90.0	1/2 LD PF	86.5	94.5		SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
220 LB-FT	1,021	385 LB-FT 175%	628 LB-FT 285%	78

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA		0.00 LB-FT²	120 LB-FT²	15 SEC.	2	1440 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	NO	NONE	NO	NONE	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6314 6314						

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
0.014	0.013	0.166	0.14	5.16	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/11/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: Y-(LEESON UL REC)		

## Data Sheet

Date: 9/11/2018

171578.60



Data @ 460 V

## Motor Load Data

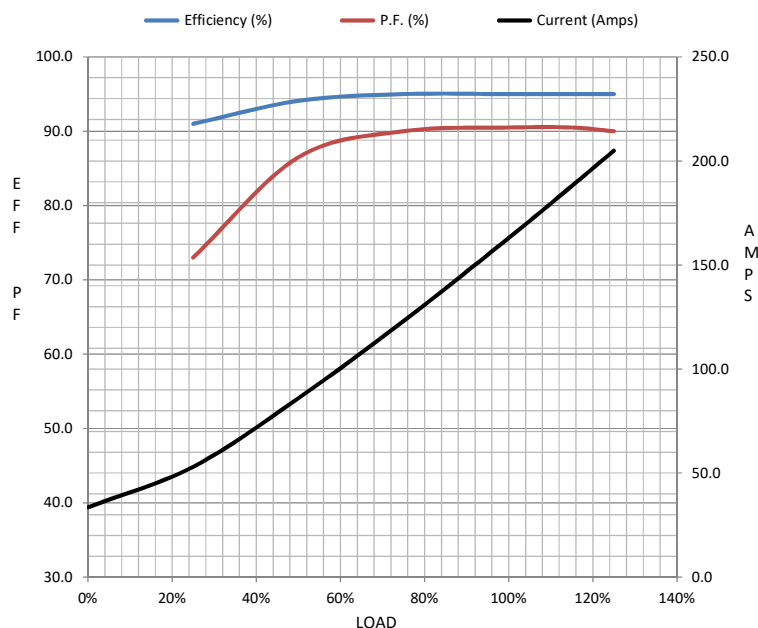
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	33.5	53.0	86.0	123	163	188	205	1,021	
Torque (ft-lb)	0.00	55.0	110	165	220	253	275	385	
RPM	3600	3595	3590	3585	3580	3,575	3575	0	
Efficiency (%)		91.0	94.1	95.0	95.0	95.0	95.0		
P.F. (%)	10.0	73.0	86.5	90.0	90.5	90.5	90.0	30.0	

## Motor Speed Data

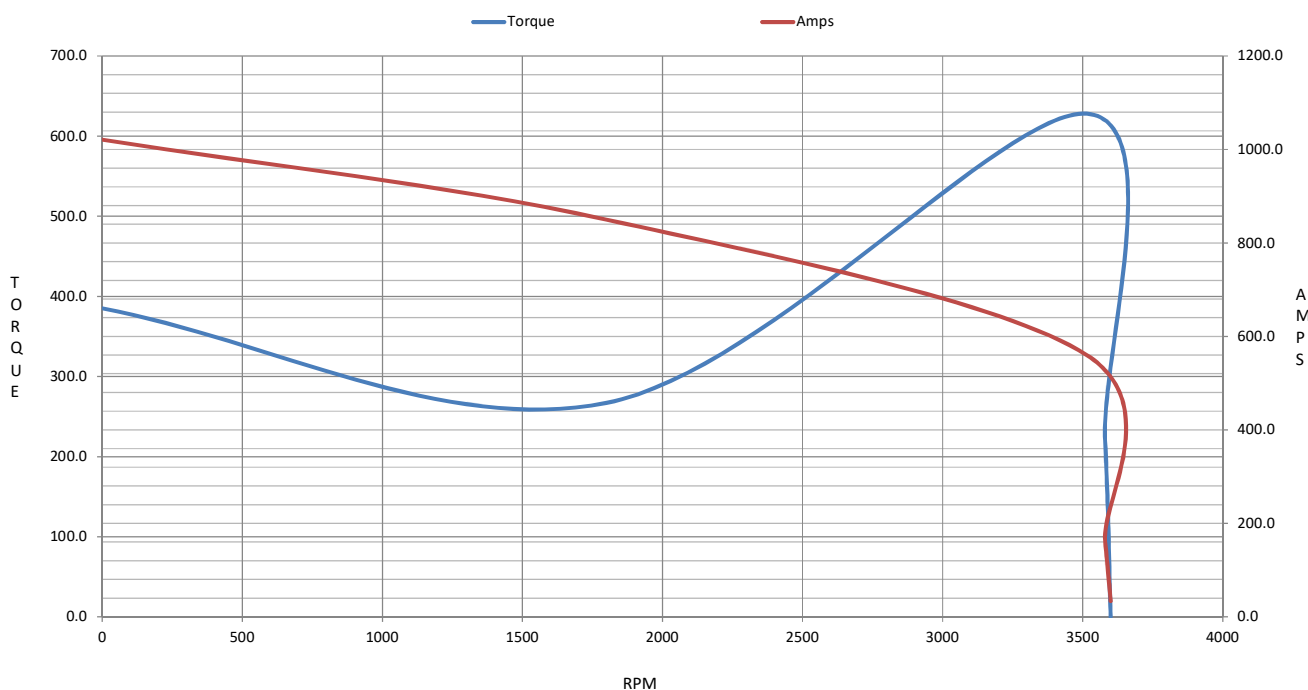
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3515	3580	3600
Current (Amps)	1,021	850	560	163	33.5
Torque (ft-lb)	385	267	628	220	0.00

## Information Block

HP	150.0			
Sync. RPM	3600			
Frame	445			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	78 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22802006 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	16954860			
Conn. Diag	005190.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0130	0.1660	0.1400	5.1600



## 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 : 171578.60

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

Catalog No : 171578.60

Rework No : N/A

Directives :

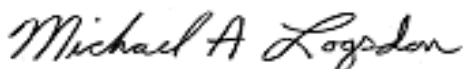
Low Voltage Directive 2014/35/EU

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**