

# PRODUCT INFORMATION PACKET



Model No: 171519.60

Catalog No: 171519.60

General Purpose Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,  
364TC Frame, TEFC



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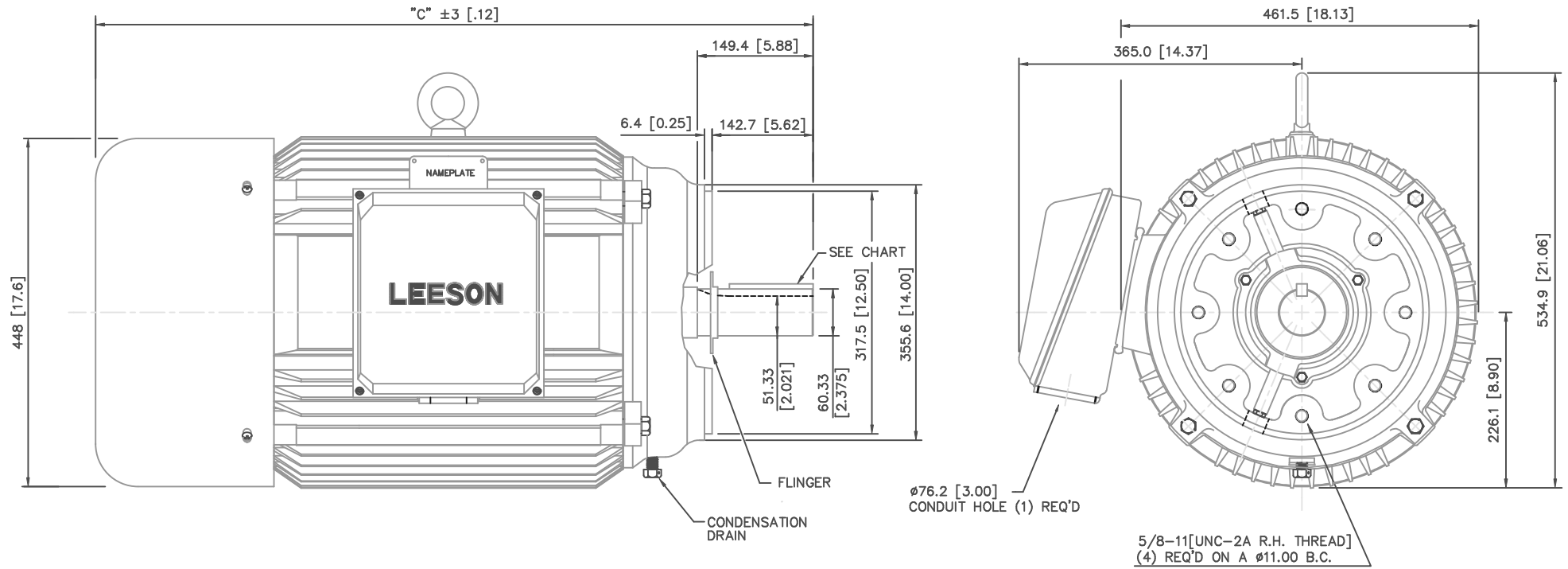


## Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	208-230/460 & 190/380 V
Speed	1790 & 1490 rpm	Service Factor	1.15 & 1.15
Frame	364TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	152-139/69.5 & 140/70 A	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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	4	Rotation	Reversible
Resistance Main	.06 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	31.64 in
Shaft Diameter	2.375 in	Shaft Extension	5.88 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1
Outline Drawing	16958160	Connection Drawing	004172.01



FRAME	"C"	"KEY"		
		WIDTH	THICK	LENGTH
364T	829.1 [32.64]	15.88 [0.625]	15.88 [0.625]	107.95 [4.250]
365T	853.9 [33.62]	15.88 [0.625]	15.88 [0.625]	107.95 [4.250]

				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION		
				DECIMALS		DRAWN ADS 04/29/99		
				.00 $\pm$ .01		CH'K'D.		
				.000 $\pm$ .005		APPR.		
				.0000 $\pm$ .0005		MAT'L		
				FRACTIONS $\pm$ 1/64		SCALE 1=5		
				ANGLES $\pm$ 1/2"		REF.		
				INCH/MM		FINISH		
						HEBEI		
						SIZE B		
						DRAWING NO. 169581-60		

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## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

## HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

## LINE LEADS



## ACROSS THE LINE START &amp; RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

DRAWN WLW 09/08/77

CHK RPB 09/12/77

APPD JCW 09/12/77

TITLE DELTA - WYE CONNECTION DIAGRAM

SCALE 1=1

REF

FMF

PREV

03 REV'D LOW VOLTAGE CONN. LEADS PER ELEC.

BJB 06/07/00

02 ADDED T-STAT. NOTES PER ELECTRICAL

KMM 06/02/98

01 REDRAWN TO CAD

DBT 06/02/97

NO. REVISION

BY &amp; DATE

CHK

ANG

MAT'L.

FINISH

RFP

DIST

CAD FILE 00417201

SIZE

A

DRAWING NO.

004172-01

REV.

03

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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: 004172.01

CAT #: 171519.60

OUTLINE: 16958160

WINDING: T18304019

NONE 3

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1800	1790	364TC	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	147-139/69.5&137/68.5	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	ELECT. TYPE
F.L. PF	84.5	3/4 LD PF	81.5	1/2 LD PF	73.5	94.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
176 LB-FT	435	300 LB-FT 170%	500 LB-FT 284%	55

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA		0.00 LB-FT²	0 LB-FT²	20 SEC.	0	888 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6313 6313						

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
0	0	0	0	0	0.150	ODE

* N O T E S *			INVERTER TORQUE: CONSTANT 10:1 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

171519.60



Data @ 460 V

## Motor Load Data

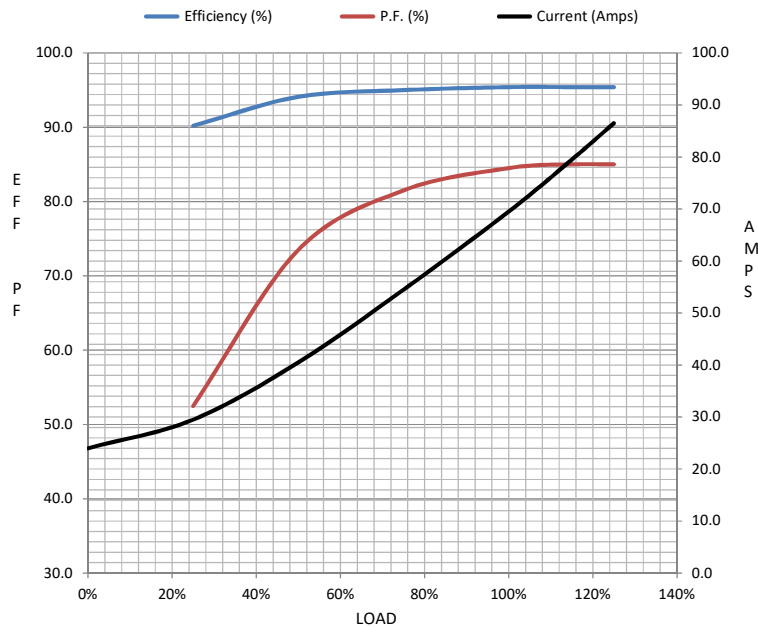
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	29.5	40.5	54.5	69.5	79.5	86.5	435	
Torque (ft-lb)	0.00	44.0	88.0	132	176	203	221	300	
RPM	1800	1798	1795	1792	1790	1,787	1785	0	
Efficiency (%)		90.2	94.1	95.0	95.4	95.4	95.4		
P.F. (%)	5.5	52.5	73.5	81.5	84.5	85.0	85.0	29.0	

## Motor Speed Data

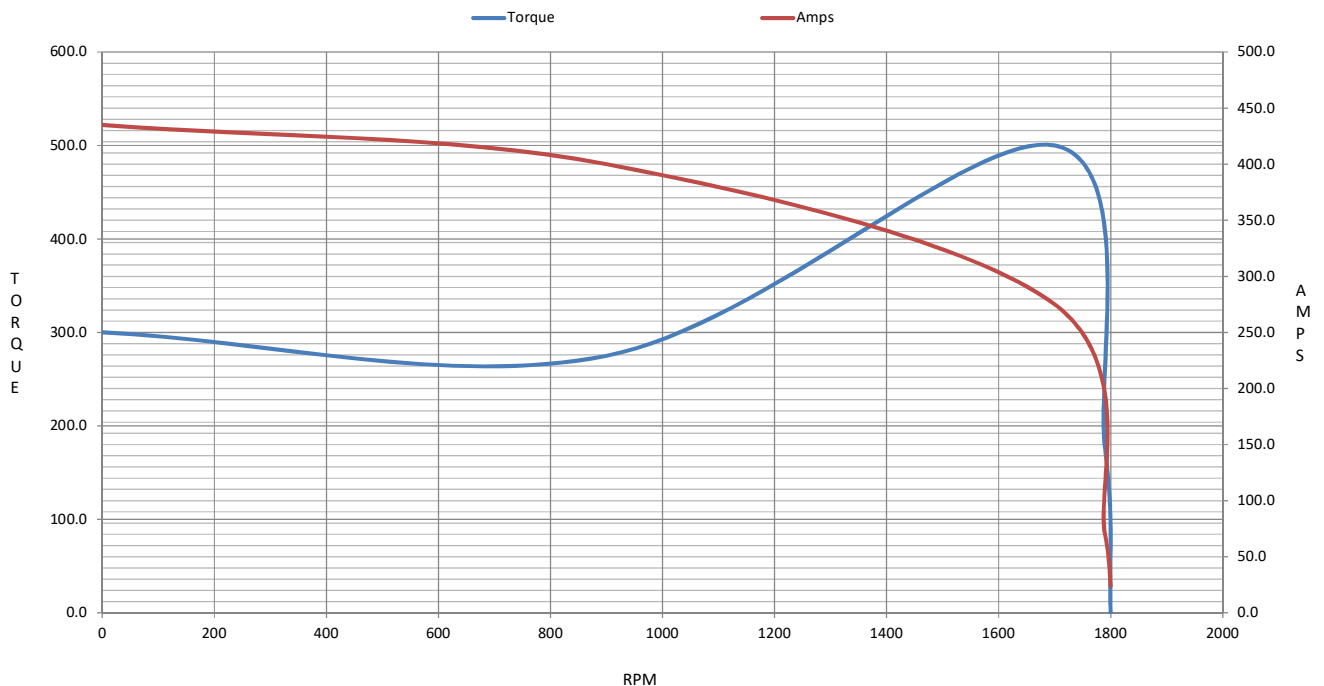
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1790	1800
Current (Amps)	435	400	275	69.5	24.0
Torque (ft-lb)	300	275	500	176	0.00

## Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	T18304019 NONE			
Sound Pressure @ 1M	999	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	16958160			
Conn. Diag	004172.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



## 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 : 171519.60

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

Catalog No : 171519.60

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 12/29/2022

**CE 22**