

# PRODUCT INFORMATION PACKET



Model No: 170269.60

Catalog No: 170269.60

WATTSaver® General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM,  
444T Frame, DP



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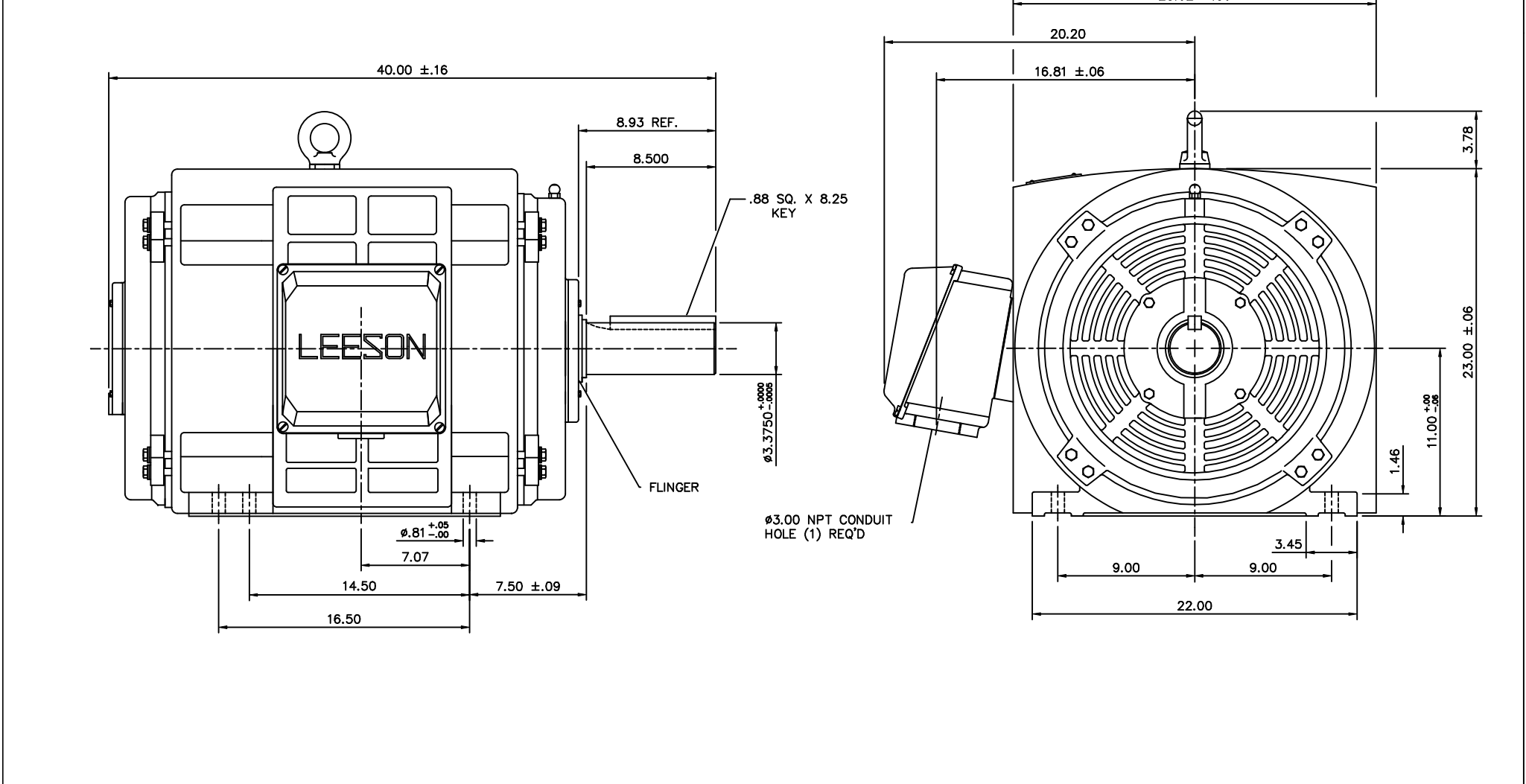
## Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	460 & 380 V
Speed	1195 & 995 rpm	Service Factor	1.15 & 1.15
Frame	444T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	118 & 108 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.033 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	40.00 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16958260	Connection Drawing	005190.01

	23.62 ± .06	169582-60
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						TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION			
						DECIMALS					
						.00	± .03	DRAWN	LEM 10/01/99	TITLE OUTLINE - 444T/445T FRAME, OPEN DRIP PROOF, RIGID MOUNT, MEETS NEC/UL CON-BOX VOLUME = 13800 CC	
						.000	± .005	CH'K'D.	ADS 10/15/99		
						.0000	± .0005	APPR.	ADS 10/15/99		
NO.	REVISION			BY	DATE	FRACTIONS	± 1/64	SCALE	1=6	MAT'L	
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.	FINISH	SIZE	DRAWING NO.
						INCH/MM		FMF		B	169582-60

ERROR: undefined  
OFFENDING COMMAND: Pscript\_WinN  
STACK:

005190-01

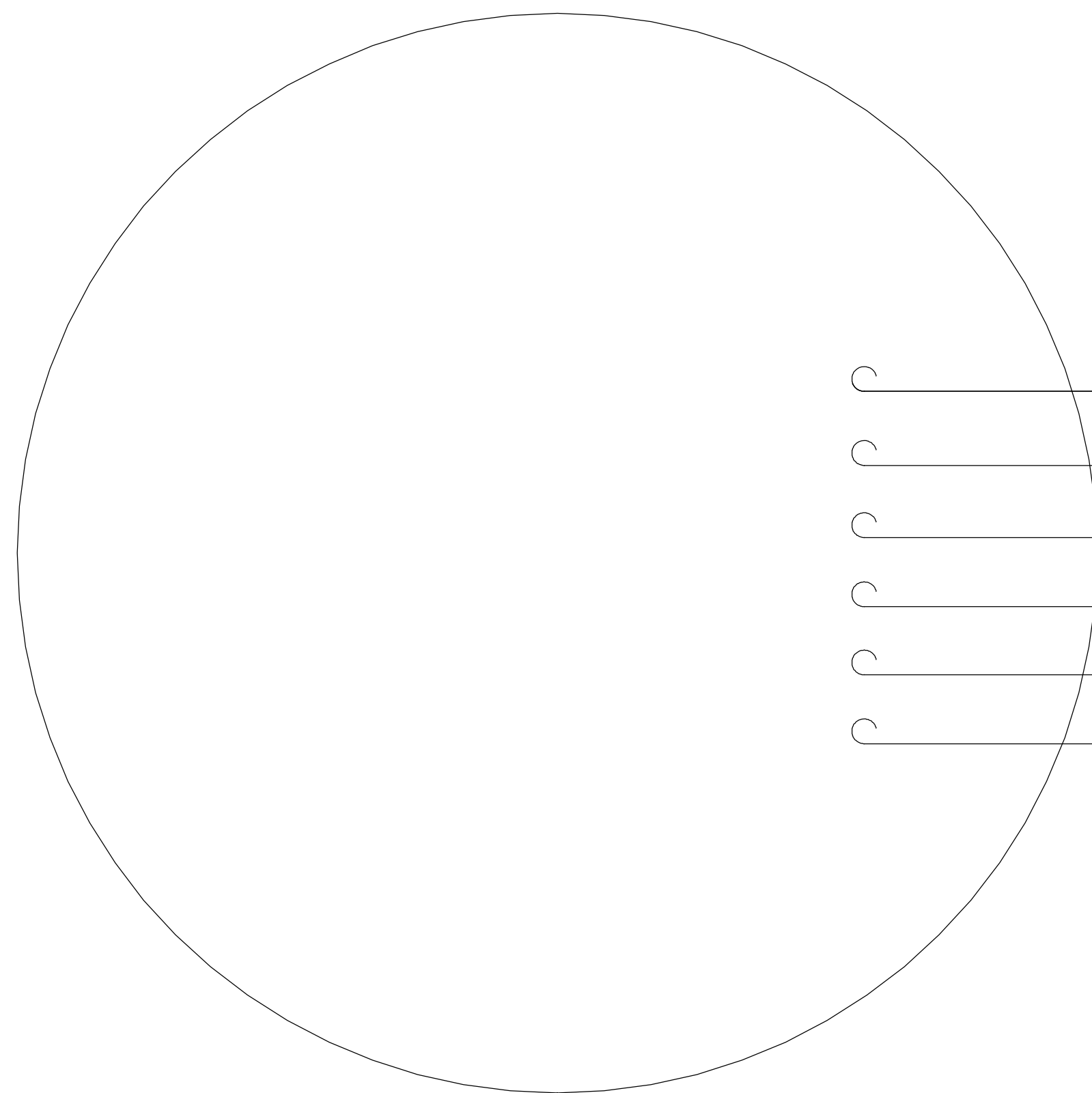
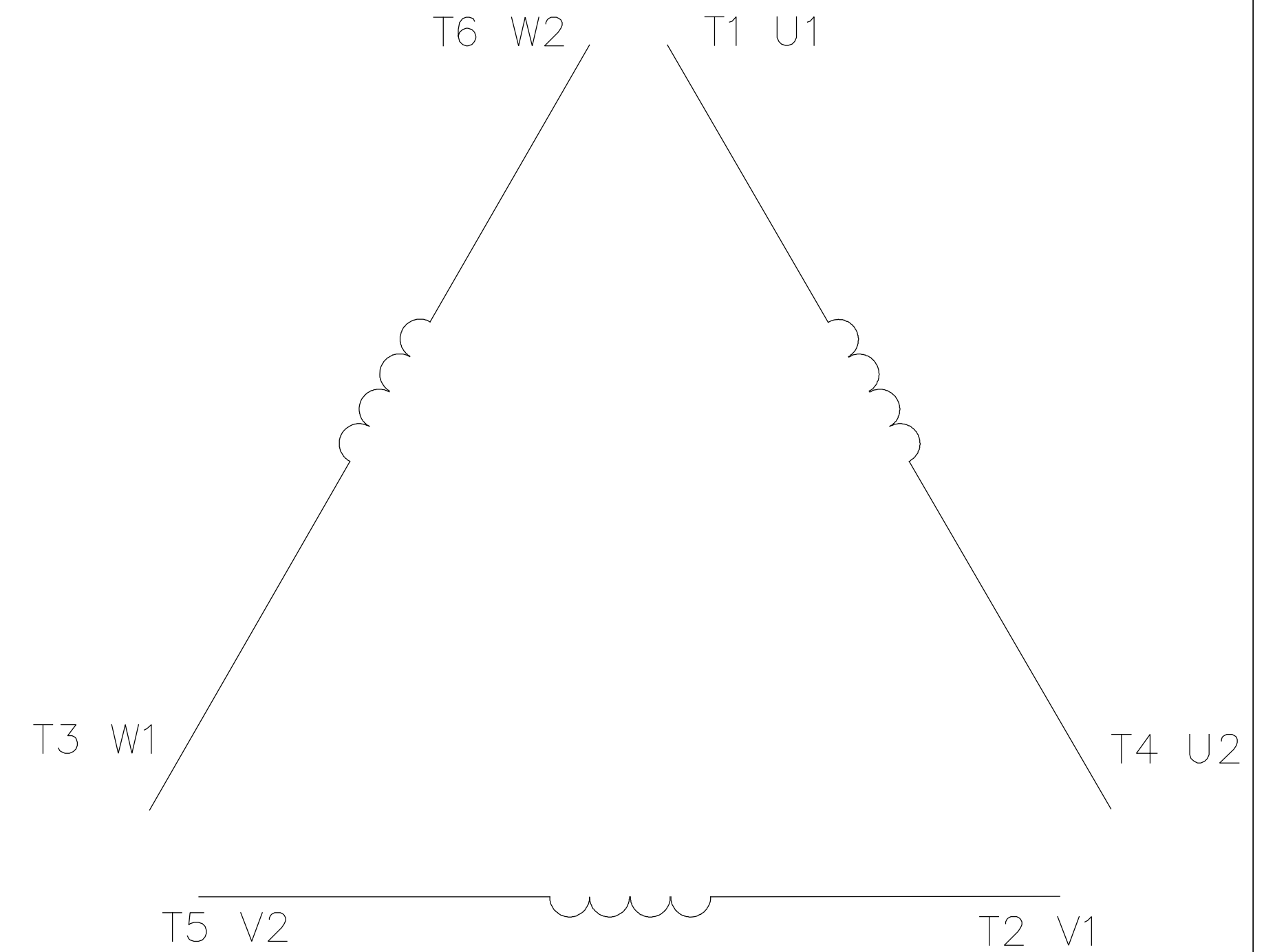


Diagram illustrating a selection operation on a set of data streams. A curved line on the left indicates a selection or grouping operation. The data streams are labeled on the right as T1 U1, T2 V1, T3 W1, T4 U2, T5 V2, and T6 W2.



	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				EXT. WIRING DIAGRAM STAR START – DELTA RUN		
03	ADDED IEC DESIGNATIONS	MOL	4/27/2012	.00	± .01	DRAWN PG 05/07/82	TITLE			
02	REMOVED OBSOLETE STATUS	KJH	6/28/99	.000	± .005	CH'K'D. TEM	MAT'L. Y-CONNECTED START (CWLE) DELTA CONNECTED RUN – SINGLE VOLTAGE			
01	REDRAWN ON CAD	DBT	05/30/97	.0000	± .0005	APPR. 05/07/82				
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=1	FINISH			
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				SIZE
				INCH/MM		FMF ELECTRO POWER	A	005190-01		



# CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810**

**CATALOG #:** 170269.60

**CONN. DIAGRAM:** 0051990.03

**OUTLINE:** 16958260

**MOUNTING:** F1/F2 CAPABLE

**WINDING #:** T22806010 DR 2 A

## TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75.0&56.0	1200	1195&995	444T	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	118&108	ACROSS THE LINE	CONTINUOUS	F5	1.15/1.15	40

<b>FULL LOAD EFF:</b>	95.4	<b>3/4 LOAD EFF:</b>	95.4	<b>1/2 LOAD EFF:</b>	95	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	83	<b>3/4 LOAD PF:</b>	81	<b>1/2 LOAD PF:</b>	73.5	94		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
439.5 LB-FT	656	579 LB-FT 132 %	1001 LB-FT 228 %	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	1950 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GREEN - LEESON 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
6318	6317						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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<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: 1/19/2018

170269.60



Data @ 460 V

## Motor Load Data

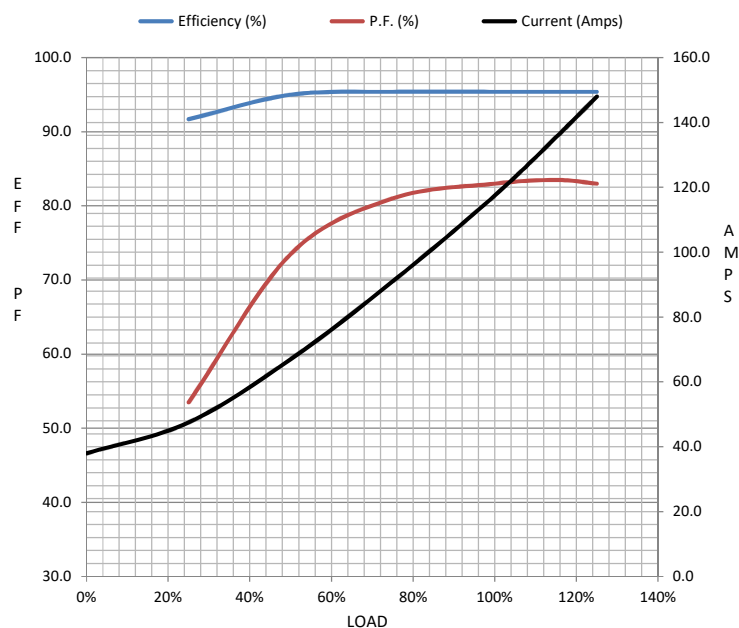
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	38.0	47.5	67.0	91.0	118	136	148	656	
Torque (ft-lb)	0.00	110	220	329	440	506	550	579	
RPM	1200	1199	1198	1197	1195	1,195	1194	0	
Efficiency (%)		91.7	95.0	95.4	95.4	95.4	95.4		
P.F. (%)	5.0	53.5	73.5	81.0	83.0	83.5	83.0	0.0	

## Motor Speed Data

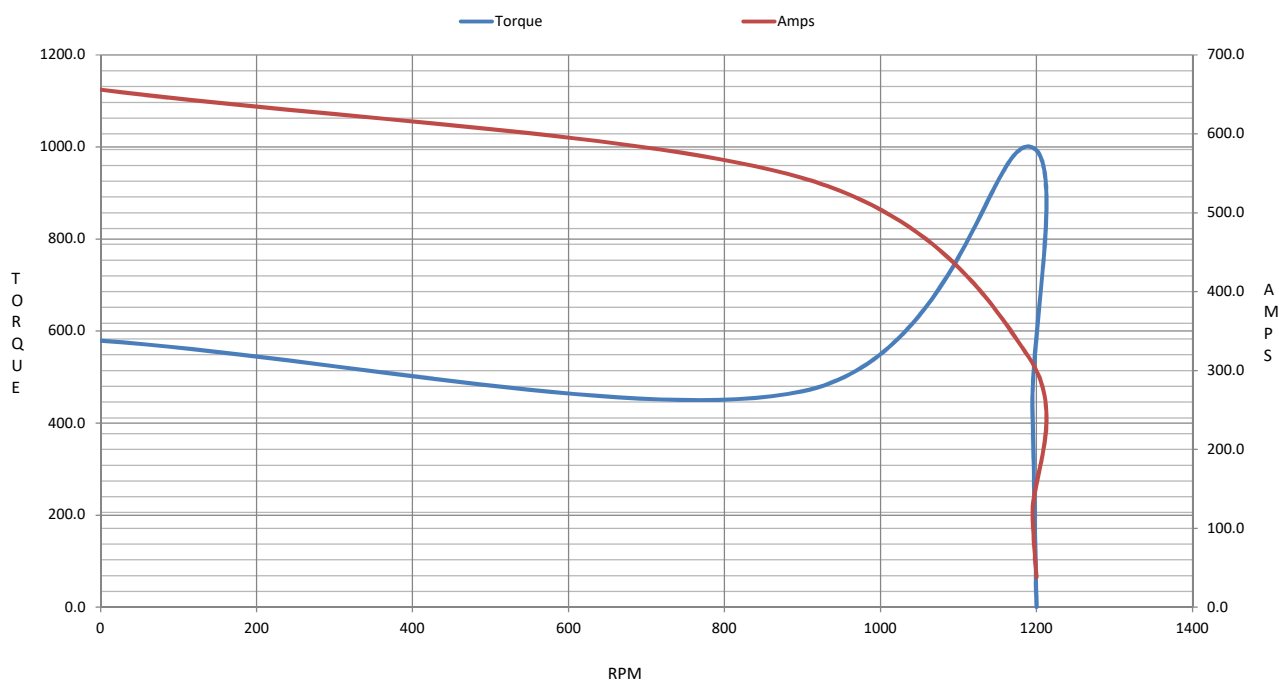
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1190	1195	1200
Current (Amps)	656	544	317	118	38.0
Torque (ft-lb)	579	469	1,001	440	0.00

## Information Block

HP	100.0			
Sync. RPM	1200			
Frame	444			
Enclosure	DP			
Construction	TDC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	30 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22806010 DR			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	16958260			
Conn. Diag	0051990.03			
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 : 170269.60

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

Catalog No : 170269.60

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**