## PRODUCT INFORMATION PACKET



Model No: 103020.00

Catalog No: 103020.00

WATTSAVER® General Purpose Motor, 0.50 & 0.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,

1800 & 1500 RPM, S56 Frame, TEFC





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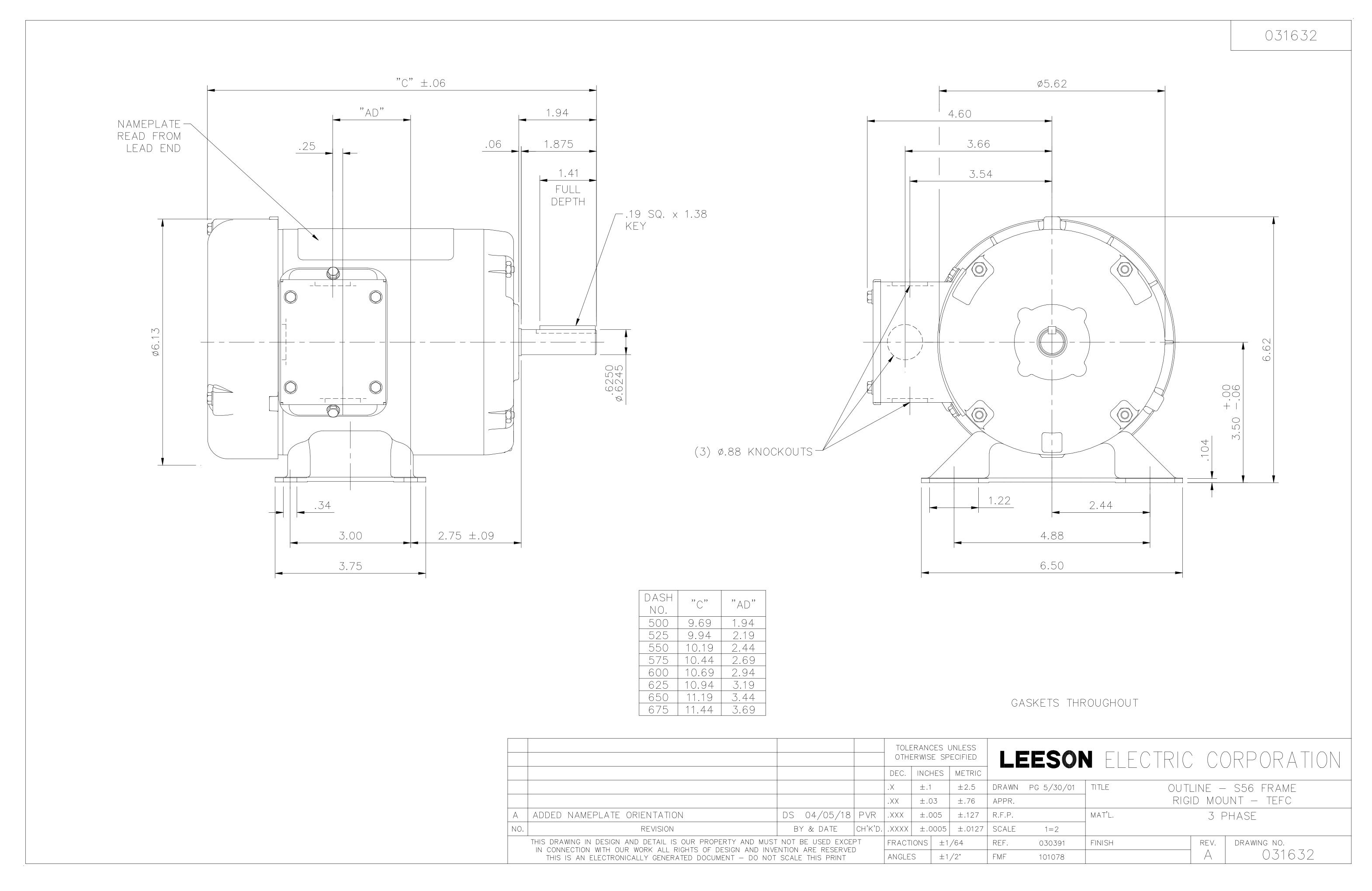
### Nameplate Specifications

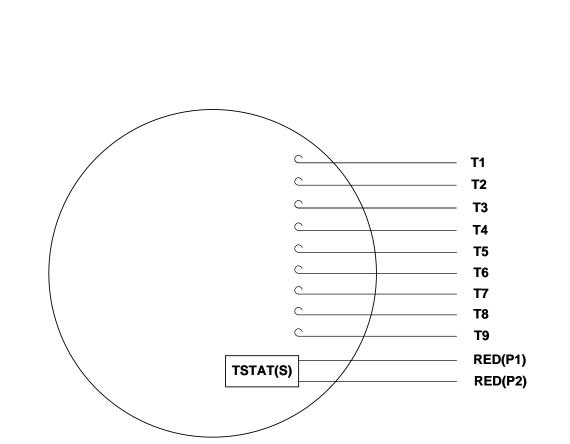
Phase	3	Output HP	0.50 & 0.50 Hp
Output KW	0.37 & 0.37 kW	Voltage	208-230/460 & 190/380 V
Speed	1725 & 1425 rpm	Service Factor	1.25 & 1.25
Frame	S56	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	77 & 77 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	1.8-1.8/.9 & 2/1 A	Power Factor	69
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	М
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

## **Technical Specifications**

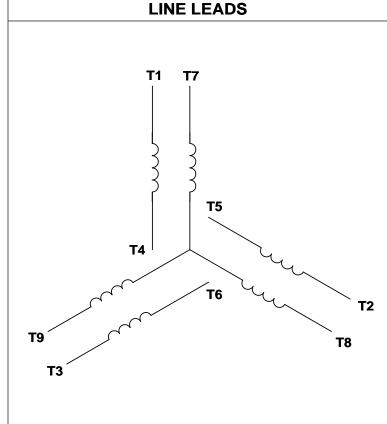
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	9.166 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	10.69 in
Frame Length	6.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	031632-600	Connection Drawing	005010.20

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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



VOLTAGE	L1	L2	L3	JOIN & INSULATE		
HIGH	T1	T2	Т3	(T4,T7) (T5,T8) (T6,T9)		
LOW	T1,T7	T2,T8	Т3,Т9	T4,T5,T6		

DRAWING REVISION G	REVISION BY MVG	DATE 04/05/2017
ECO	APPROVED BY	DATE
ECO-0121253	SM	04/05/2017
ECO DESCRIPTION		

ADDED P1 & P2 FOR TSTAT

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<u>=</u>	DRAWN BY DBT 12/16/97 DATE	REGAL ™ Regal Beloit America, Inc.	
	APPROVED BY KH 12/17/97 DATE	DESCRIPTION CONN DIAGRAM-EXTERNA 3 PHASE WITH PROTECTOR	<u>L</u>
,	REFERENCE	MATERIAL PROCESS/FINISH DECAL - 004014 (TSTAT) - 080582 PROCESS/FINISH	(
/	THIRD ANGLE PROJECTION	A DRAWING NUMBER 00501020	SHEET 1 OF 1



### **CERTIFICATION DATA SHEET**

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

**CATALOG #:** 103020.00

**CONN. DIAGRAM:** 005010.20

OUTLINE: 031632-600 MOUNTING: F1 ONLY

**WINDING #:** TE48453 FR 3 F

#### **TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	SYNC. RPM F.L. RPM FRAME		ENCLOSURE	KVA CODE	DESIGN
1/2&1/2	0.37&0.37	1800	1725&1425	S56	TEFC	М	NO DESIGN CODE

РН	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°С
З	60/50	208-230/460&190/380	1.8-1.8/.9&2/1	ACROSS THE LINE	CONTINUOUS	F3	1.25/1.25	40

FULL LOAD EFF:	77&77	3/4 LOAD EFF:	73.8	1/2 LOAD EFF:	66.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	69&74.7	3/4 LOAD PF:	60.1	1/2 LOAD PF:	47.9	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24 <b>OZ-FT</b>	12.6 / 6.3	91.4 <b>OZ-FT</b> 381 %	98 <b>oz-ft</b> 408 %	39

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT	
0 <b>dBA</b>	10 dBA	0.053 LB-FT^2	0 LB-FT^2	10 <b>SEC.</b>	0	- LBS.	

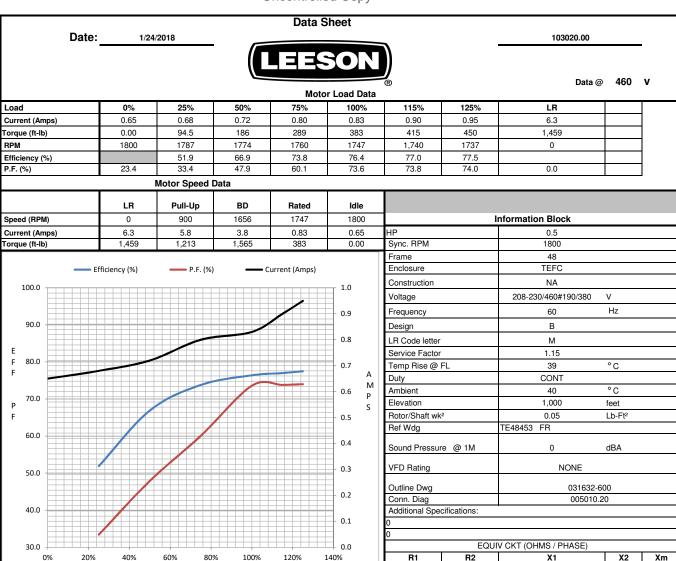
### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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	FRAME	
DE	ODE	GREASE	SHAFITYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	MULTEMP CDI	STANDARD 56	NONE	NONE	1144 CTDECCDDOOE (C 222)	ROLLED STEEL	
6203	6203	MULTEMP SRL				1144 STRESSPROOF (C-223)		

	THERMO-PROTECTO	THERMICTORS	CONTROL	CDACE HEATERS			
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE HEATERS	
TSTATS (N/C)	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE	VOLTS

INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE Ν **ENCODER:** NONE NONE NONE NONE PPR NONE Т **BRAKE:** NONE NONE P/N NONE NONE Ε NONE NONE FT-LB NONE V NONE Hz S







# **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: 103020.00

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

Catalog No : 103020.00

Rework No: N/A

### **Directives:**

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22