

# PRODUCT INFORMATION PACKET



Model No: E100375.00

Catalog No: E100375.00

ecoSaver™ General Purpose Motor, 0.33 & 0.33 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
3600 & 3000 RPM, S56C Frame, DP



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

©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E





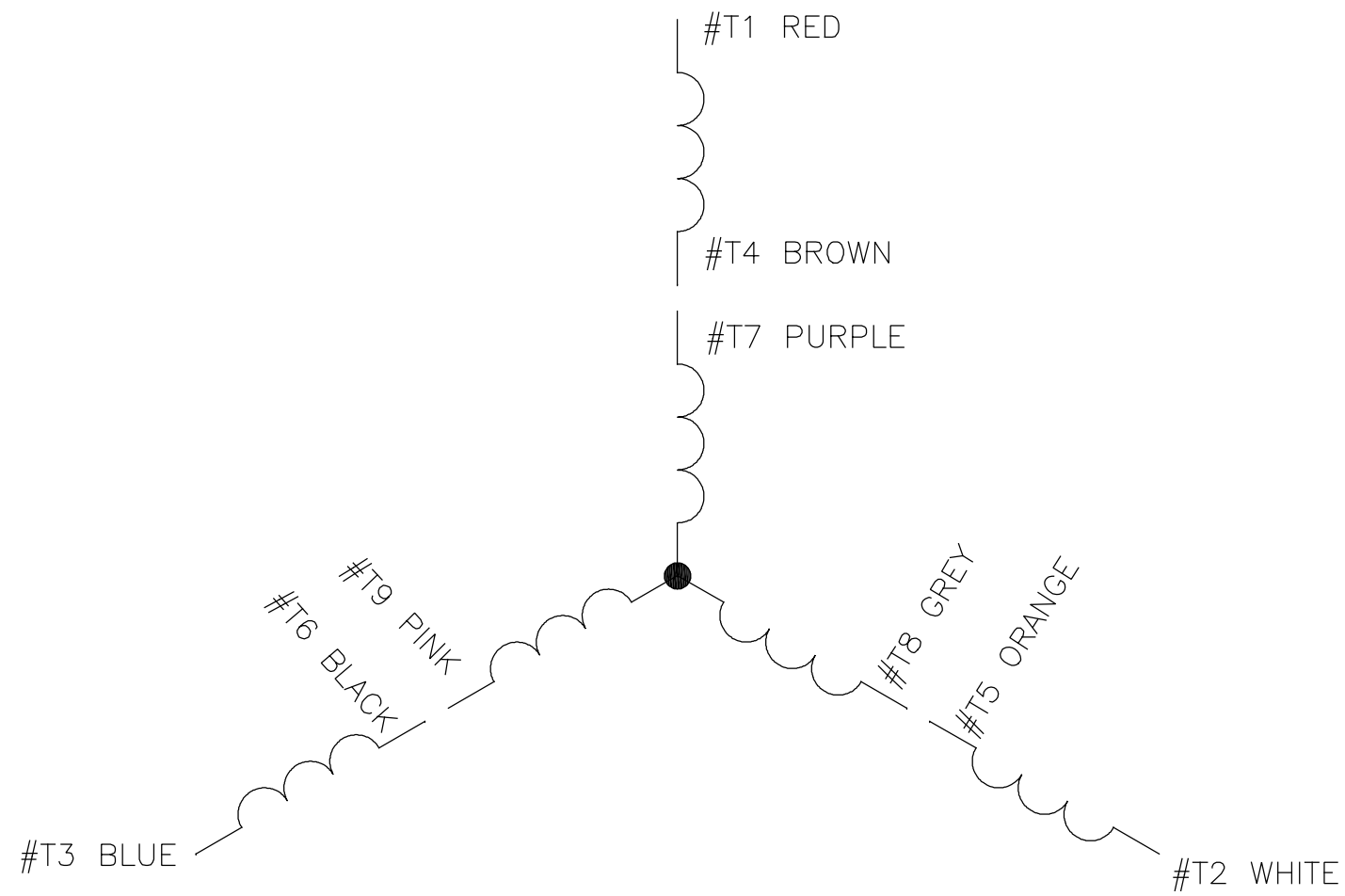
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>0.33 &amp; 0.33 Hp</b>
Output KW	<b>0.25 &amp; 0.25 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3450 &amp; 2850 rpm</b>	Service Factor	<b>1.35 &amp; 1.35</b>
Frame	<b>S56C</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>69.5 &amp; 70 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>1.4/0.7 &amp; 1.50/0.75 A</b>	Power Factor	<b>73.6</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>B</b>	KVA Code	<b>S</b>
Drive End Bearing Size	<b>6203</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>25.6 Ohms</b>	Mounting	<b>Round</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>NEMA 48</b>	Overall Length	<b>11.04 in</b>
Frame Length	<b>6.72 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Inverter Load	<b>CONSTANT 2:1</b>		
Connection Drawing	<b>D0000561-001</b>	Outline Drawing	<b>E100375-S01</b>





CONNECT AS FOLLOWS

HIGH VOLTAGE	
#T1 - RED	LINE A
#T2 - WHITE	LINE B
#T3 - BLUE	LINE C
#T4 - BROWN	TIE TOGETHER
#T7 - PURPLE	TIE TOGETHER
#T5 - ORANGE	TIE TOGETHER
#T8 - GREY	TIE TOGETHER
#T6 - BLACK	TIE TOGETHER
#T9 - PINK	TIE TOGETHER

LOW VOLTAGE	
#T1 - RED	LINE A
#T7 - PURPLE	LINE B
#T2 - WHITE	LINE B
#T8 - GREY	LINE B
#T3 - BLUE	LINE C
#T9 - PINK	LINE C
#T5 - ORANGE	TIE TOGETHER
#T6 - BLACK	TIE TOGETHER
#T4 - BROWN	TIE TOGETHER

NOTES:

1. LEADS MAY BE MULTICOLORED AS SHOWN FOR GROUP -01 OR SINGLE COLOR FOR GROUP -02. IN EITHER CASE THE NUMBERING SEQUENCE WILL BE THE SAME.

OPTIONAL CORD CONNECTION WHEN SPECIFIED IN BOM	
LINE A	WHITE
LINE B	RED
LINE C	BLACK

DRAWING REVISION A	REVISION BY H.ZHANG	DATE 12-11-2014	TOLERANCES UNLESS OTHERWISE SPECIFIED DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DRAWN BY: H.ZHANG	Regal Beloit America, Inc.
ECO ECO-0067205	APPROVED BY J.ZHAN	DATE 12-11-2014	REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381] CORNER FILLETS .02 [.51] MACHINED SURFACES $\frac{125}{\text{INCH}} \sqrt{\frac{3.2}{\text{mm}}}$ mm SHOWN IN [BRACKETS]	DATE: 12-11-2014	
ECO DESCRIPTION NEW			APPROVED BY: J.ZHAN		DESCRIPTION CONN DIAGRAM-EXTERNAL
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			DATE: 12-11-2014		MATERIAL
			REFERENCE		PROCESS/FINISH
			THIRD ANGLE PROJECTION		SIZE DWG NO C D0000561-001
					SHEET 1



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** D0000561-001  
**OUTLINE:** E100375-S01  
**WINDING #:** 2501315-007 0 A

**CATALOG #:** E100375.00  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/3&1/3	0.25&0.25	3600	3450&2850	S56C	DP	S	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	1.4/0.7&1.50 / 0.75	LINE OR INVERTER	CONTINUOUS	B3	1.35/1.35	40

FULL LOAD EFF:	69.5&70	3/4 LOAD EFF:	71.2	1/2 LOAD EFF:	64.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	73.6&75.5	3/4 LOAD PF:	76.1	1/2 LOAD PF:	66.9	66	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12 OZ-FT	13.4 / 6.7	48 OZ-FT 0 %	59.9 OZ-FT 0 %	90

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	0 LB-FT^2	1.5 LB-FT^2	10 SEC.	2	40 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	GREEN - LEESON WATTS AVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 48	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

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

<b>INVERTER TORQUE:</b> CONSTANT 2:1
<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 NONE FT-LB NONE V NONE Hz

\*  
N  
O  
T  
E  
S  
\*



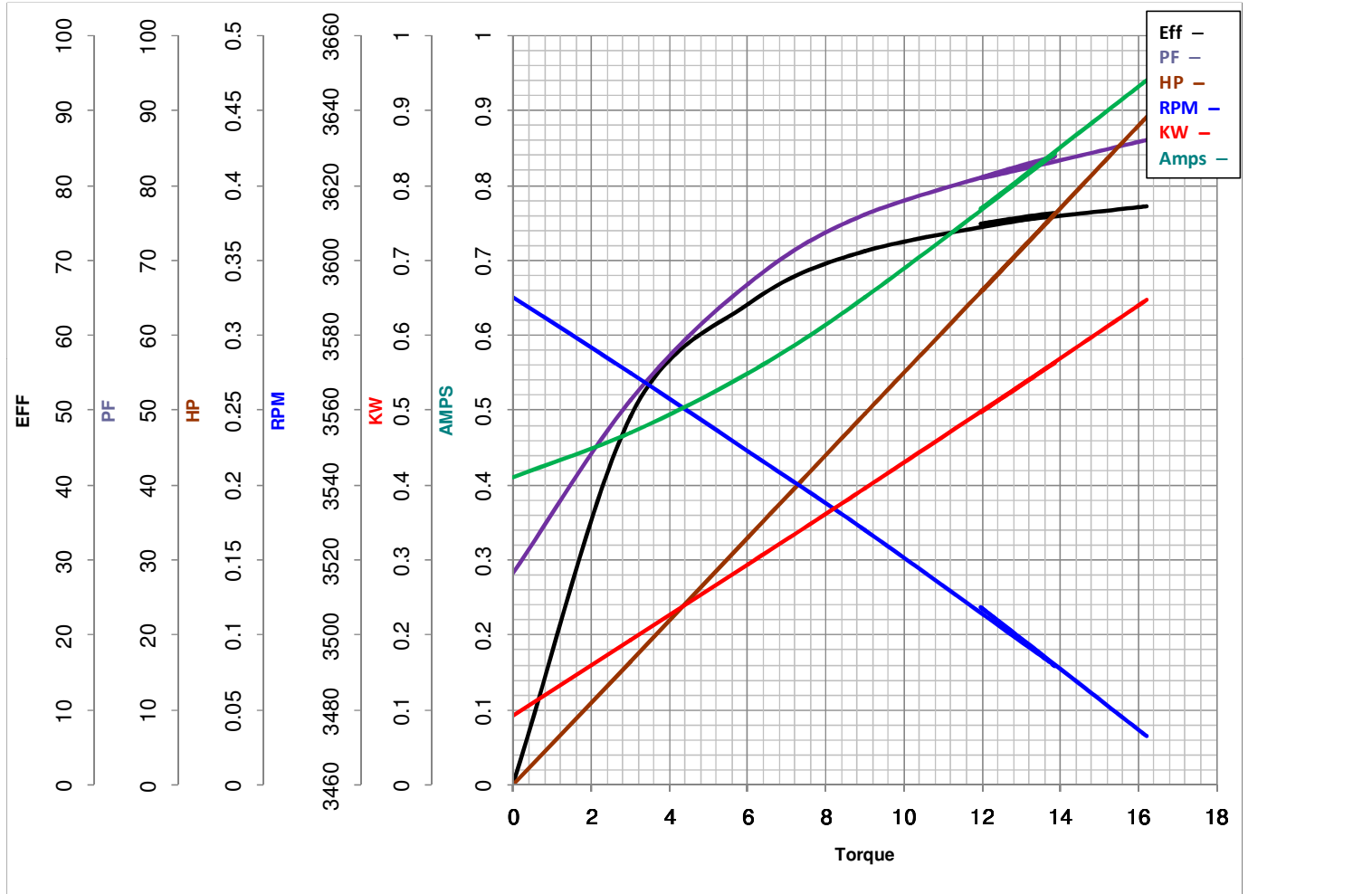
**LEESON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No E100375.00

Curve at 460 Volts      HP 0.33&0.33      PHASE 3  
60 HZ  
0.33 HP      VOLTS 230/460&190/380

Catalog No E100375.00

HZ 60&50      RPM 3450&2850



FL TORQUE	<u>12</u>	Oz.Ft	FL AMPS	<u>1.4/0.7</u>
BD TORQUE	<u>59.9</u>	Oz.Ft	PU TORQUE	<u>45.8</u> Oz.Ft
LR TORQUE	<u>48</u>	Oz.Ft	LR AMPS	<u>6.7</u>
WINDING	2501315-007-		Date	4/1/2019