

# PRODUCT INFORMATION PACKET



Model No: 103413.00

Catalog No: 103413.00

Extreme Duck® Ultra General Purpose Motor, 0.50 & 0.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, S56C Frame, TENV

**Operational at 208-230/460 V @60HZ**



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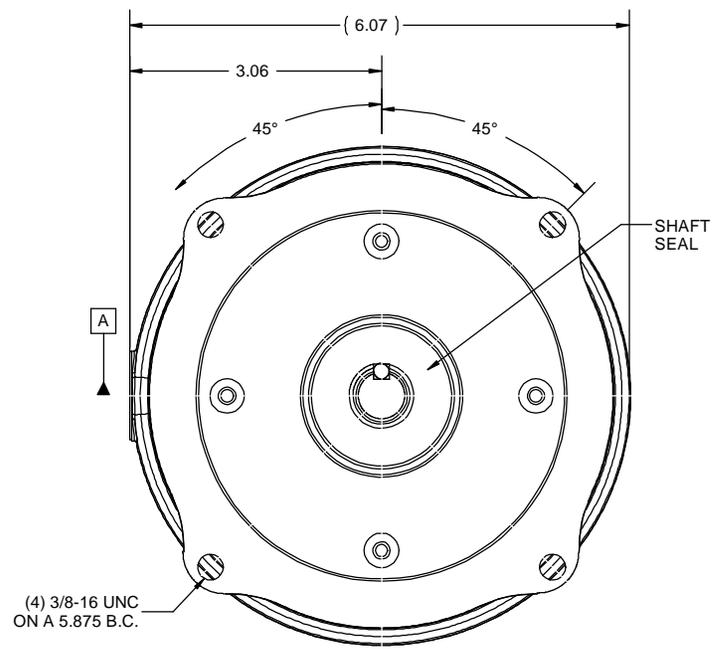
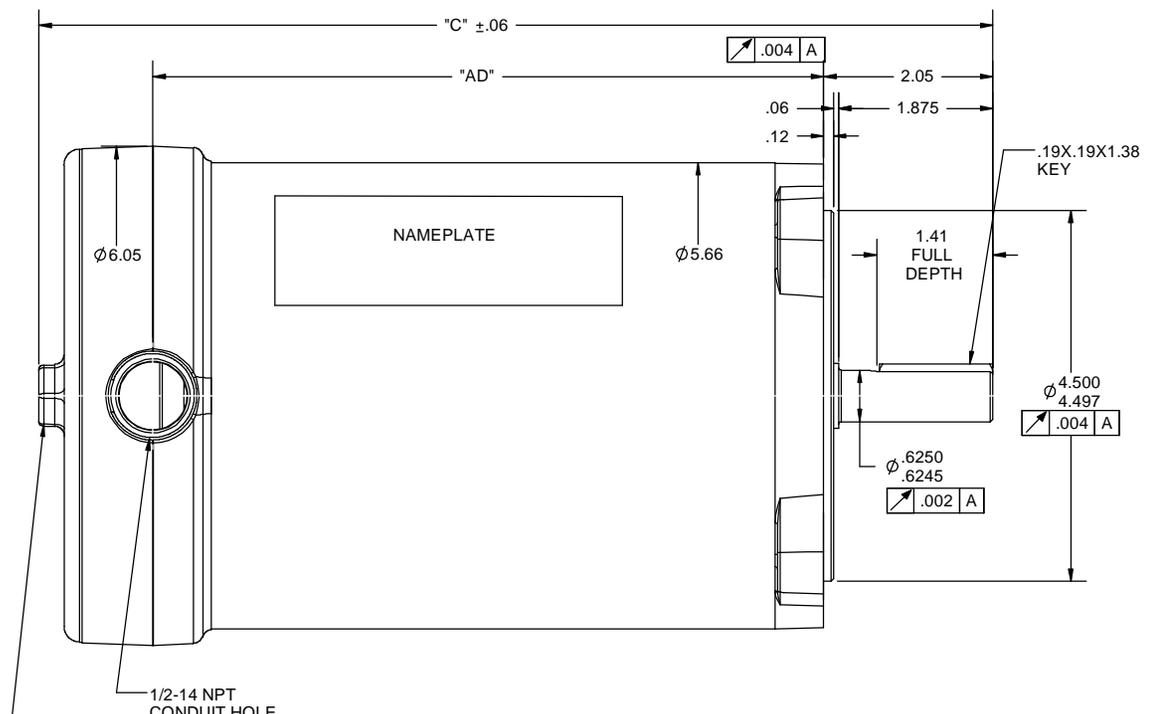


### Nameplate Specifications

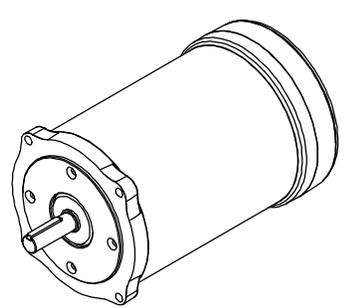
Phase	<b>3</b>	Output HP	<b>0.50 &amp; 0.50 Hp</b>
Output KW	<b>0.37 &amp; 0.37 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1725 &amp; 1425 rpm</b>	Service Factor	<b>1.15 &amp; 1.0</b>
Frame	<b>S56C</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>76 &amp; 75.3 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>1.8/0.9 &amp; 1.9/0.95 A</b>	Power Factor	<b>74</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>K</b>
Drive End Bearing Size	<b>6204</b>	Opp Drive End Bearing Size	<b>6204</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>69</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>0 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>Stainless Steel</b>
Shaft Type	<b>NEMA 56</b>	Overall Length	<b>11.49 in</b>
Frame Length	<b>6.75 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>005010.52</b>	Outline Drawing	<b>031980-675</b>



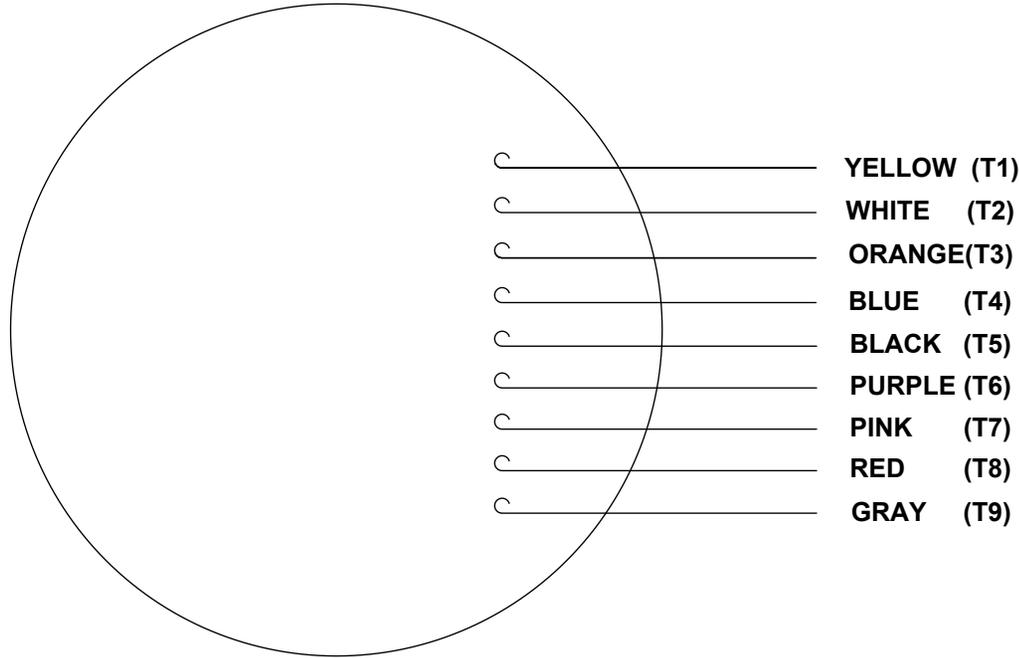
3/4" HEX DRIVER FOR COVER REMOVAL



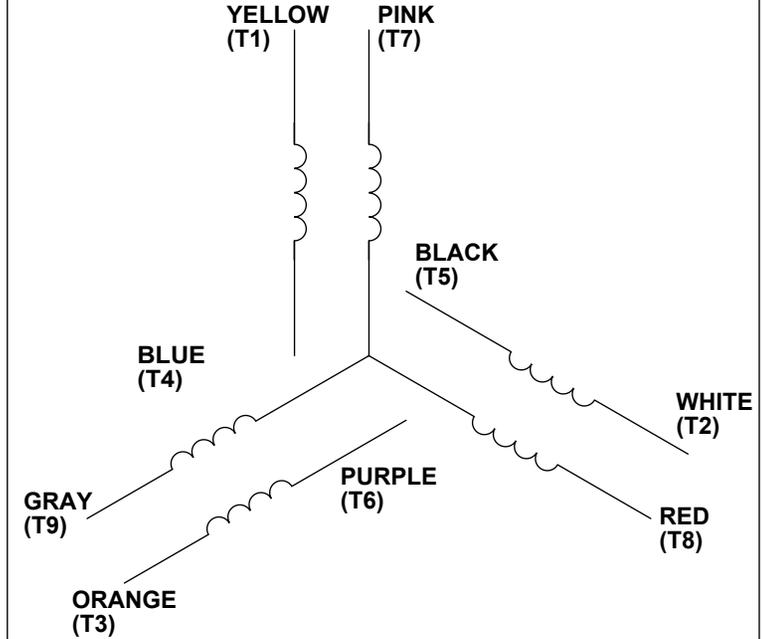
DASH NO.	"C"	"AD"
525	9.99	6.55
550	10.24	6.80
575	10.49	7.05
600	10.74	7.30
625	10.99	7.55
650	11.24	7.80
675	11.49	8.05
700	11.74	8.30

		TOLERANCES UNLESS SPECIFIED		<b>ELECTRIC MOTORS GEARMOTORS AND DRIVES</b>		DRAWN VV 12/25/09	
		DEC INCHES				CHK JJK 12/25/09	
		X ±.1		TITLE OUTLINE - 48 FRAME EXTREME DUCK S56 FRAME - C-FACE		APPR	
		XX ±.03				SCALE 1:4	
		XXX ±.005				REF 103411.00	
01 NAME PLATE ADDED AS PER ECN#21615		JD 10/11/2011		XXXX ±.0005		MATL FMF 103413.00	
NO REVISION		BY & DATE		CHK LANG ±1/2°		PAGE 1 OF 1	
THIRD ANGLE PROJECTION		RFP		PREV		SIZE DRAWING NO	
		NETWORK FILE NAME 031980		B		REV 01	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



## LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

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DRAWING REVISION <b>C</b>	REVISION BY <b>PVR</b>	DATE <b>04/23/14</b>
ECO <b>ECO-0049985</b>	APPROVED BY <b>JD</b>	DATE <b>04/23/14</b>
ECO DESCRIPTION <b>UPDATED PER ECO-0049985</b>		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	+0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [.076/.381]			
CORNER FILLETS: .02 [.51]			
MACHINED SURFACES: 125/3.2			
mm SHOWN IN [BRACKETS]			

DRAWN BY <b>LST</b>
DATE <b>4/3/14</b>
APPROVED BY
DATE
PROCESS/FINISH
THIRD ANGLE PROJECTION

**Regal Beloit America, Inc.**

DESCRIPTION <b>LEAD ASSY EXT. WIRING DIA. 3 PH. W/O PROT.</b>	
MATERIAL	
SIZE <b>A</b>	DRAWING NUMBER <b>00501052</b>
SHEET <b>1 OF 1</b>	



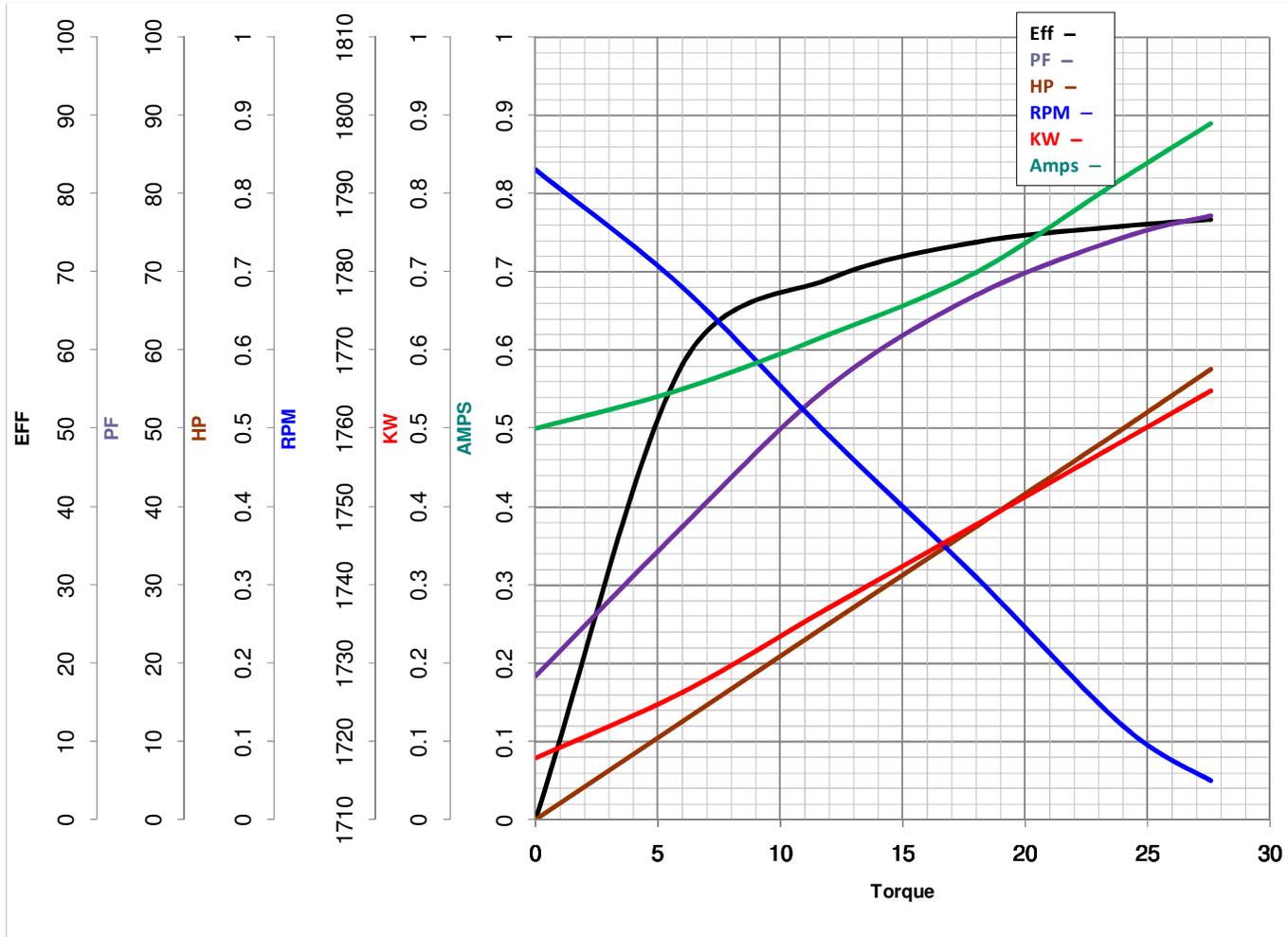
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 103413.00

Catalog No 103413.00

Curve at 460 Volts      HP 0.5&0.5      PHASE 3  
60 HZ  
0.5 HP      VOLTS 208-230/460&190/380

HZ 60&50      RPM 1725&1425



Torque in Oz.Ft

FL TORQUE 24 Oz.Ft  
 BD TORQUE 100.0 Oz.Ft  
 LR TORQUE 106 Oz.Ft

FL AMPS 1.9-1.8/0.9  
 PU TORQUE 83.0 Oz.Ft  
 LR AMPS 5.3

WINDING T55464-4

Date 6/6/2018

## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
1946 West Cook Road  
Fort Wayne, IN 46818

and the authorized representative  
established within the Community:

Regal Beloit Italy  
Via Modena, 18  
24040 Ciserano(BG) - Italy

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 : 103413.00

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

Catalog No : 103413.00

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:



Zach Stauffer  
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi  
Technology Director, Engineering

Created on 07/08/2025

**CE 25**