

# PRODUCT INFORMATION PACKET



Model No: 110163.00

Catalog No: 110163.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 56C Frame, TEFC

Operational at 208-230/460 V @60HZ



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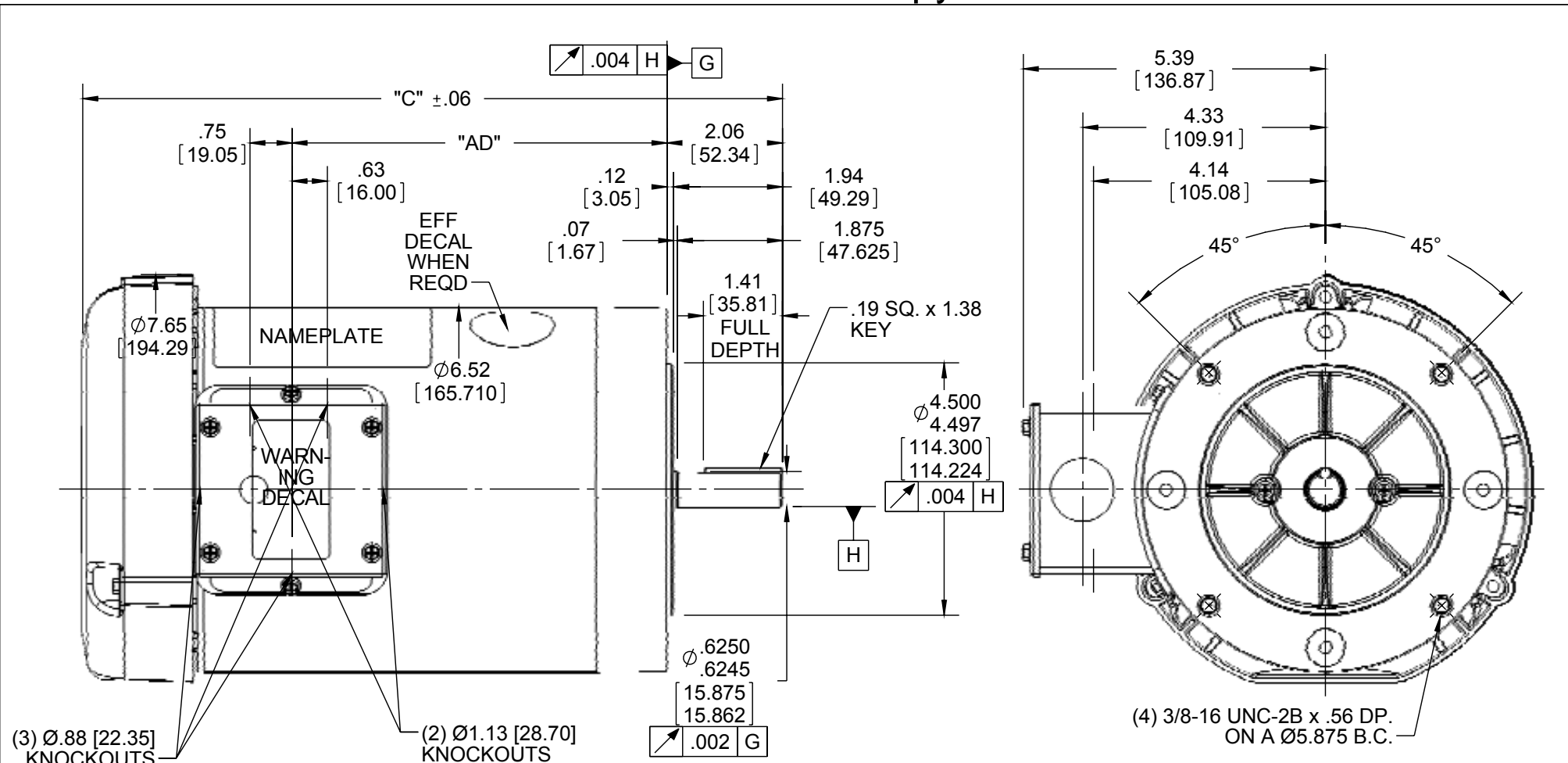


### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>0.50 Hp</b>
Output KW	<b>0.37 kW</b>	Voltage	<b>230/460 V</b>
Speed	<b>1140 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>56C</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>70 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>2.4/1.2 A</b>	Power Factor	<b>56</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>B</b>	KVA Code	<b>K</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>54</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>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>11.25 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 56</b>	Overall Length	<b>10.98 in</b>
Frame Length	<b>5.50 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>005010.01</b>	Outline Drawing	<b>028776-550</b>



(3) Ø.88 [22.35] KNOCKOUTS

(2) Ø1.13 [28.70] KNOCKOUTS

(4) 3/8-16 UNC-2B x .56 DP. ON A Ø5.875 B.C.

NOTE:  
1) GASKETS THROUGHOUT

ORACLE REV
004

DASH NO.	"C"	"AD"
450	9.98	4.19
500	10.48	4.69
550	10.98	5.19
600	11.48	5.69
625	11.73	5.94

DASH NO.	"C"	"AD"
650	11.98	6.19
675	12.23	6.44
700	12.48	6.69
750	12.98	7.19
800	13.48	7.69

DRAWING REVISION E  
ECO ECO-0092098  
ECO DESCRIPTION  
ADDED #450 (114176)  
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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] X 45°  
CORNER FILLETS: R.02 [.51]  
MACHINED SURFACES: 125/3.2 INCH/mm  
mm SHOWN IN [BRACKETS]

DRAWN BY KMM  
DATE 08/01/07  
APPROVED BY  
DATE  
REFERENCE  
THIRD ANGLE PROJECTION

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
56C FRAME TEFC - "C" FACE

SIZE	DRAWING NUMBER	PROCESS/FINISH	GENERAL PURPOSE
A	028776		

SHEET 1 OF 1

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

				TOLERANCES UNLESS SPECIFIED		<b>Regal Beloit America, Inc.</b>		DRAWN RDW 04/12/02				
				DEC.	INCHES			CHK				
				.X	±.1			APPD				
				.XX	±.01			SCALE 1=1				
				.XXX	±.005	TITLE		REF FIG.2-51				
A	UPDATED TO REGAL LOGO			SAJ	06/26/15	AJY	.XXXX	±.0005	MAT'L. DECAL - 004014	FMF		
NO.	REVISION			BY & DATE	CHK	ANG	±1/2"	FINISH	PREV			
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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	04/12/02		CAD FILE	00501001		SIZE	DRAWING NO.	REV.
				DIST	BRF-NLV			A	005010-01		A	

P.O. BOX 8003  
 WAUSAU, WI 54401-8003  
 PH. 715-675-3311



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.01  
 OUTLINE: 028776-550  
 WINDING: T63641

CAT #: 110163.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
0.5	0.37	1200	1160	56C	TEFC	NA	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	208-230/460	2.35/1.2	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	70.0	3/4 LD EFF	60.0	1/2 LD EFF	60.8	GTD EFF	0.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	56.1	3/4 LD PF	47.5	1/2 LD PF	37.7				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
572 LB-FT	5.0	1,272 LB-FT 222%	1,813 LB-FT 317%	82

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
60 dBA	69 dBA	0.07 LB-FT²	0.1 LB-FT²	10 SEC.	0	0 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	JE - LEESON (ENAM)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

DATE: 1/30/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	HZ:
	VOLTAGE: NONE	
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/30/2018

110163.00



Data @ 460 V

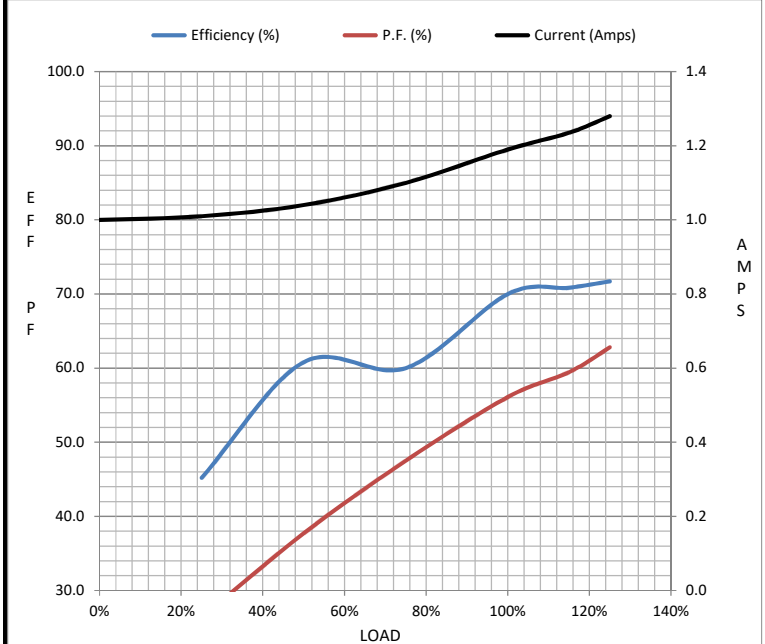
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.00	1.01	1.04	1.10	1.19	1.24	1.28	5.0
Torque (ft-lb)	0.00	143	286	382	572	10,242	716	1,272
RPM	1200	1192	1182	1171	1160	1,155	1148	0
Efficiency (%)		45.2	60.8	60.0	70.0	70.9	71.7	
P.F. (%)	13.2	26.4	37.7	47.5	56.1	59.5	62.8	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1104	1160	1200
Current (Amps)	5.0	4.6	3.0	1.19	1.00
Torque (ft-lb)	1,272	1,209	1,813	572	0.00

Information Block				
HP	0.5			
Sync. RPM	1200			
Frame	140			
Enclosure	TEFC			
Construction	NA			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.0			
Temp Rise @ FL	82 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.07 Lb-Ft <sup>2</sup>			
Ref Wdg	T63641 FR			
Sound Pressure @ 1M	60 dBA			
VFD Rating	NONE			
Outline Dwg	028776-550			
Conn. Diag	005010.01			
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

