

# PRODUCT INFORMATION PACKET



Model No: 102918.00

Catalog No: 102918.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, S56 Frame, TENV

Operational at 208-230/460 V @60HZ



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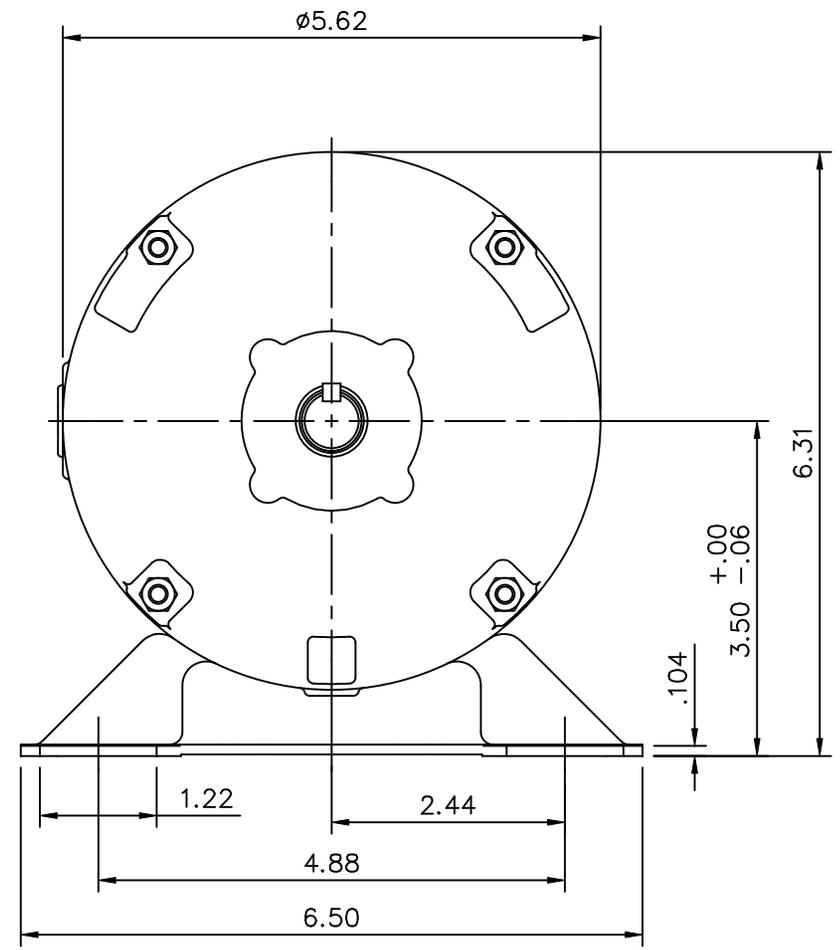
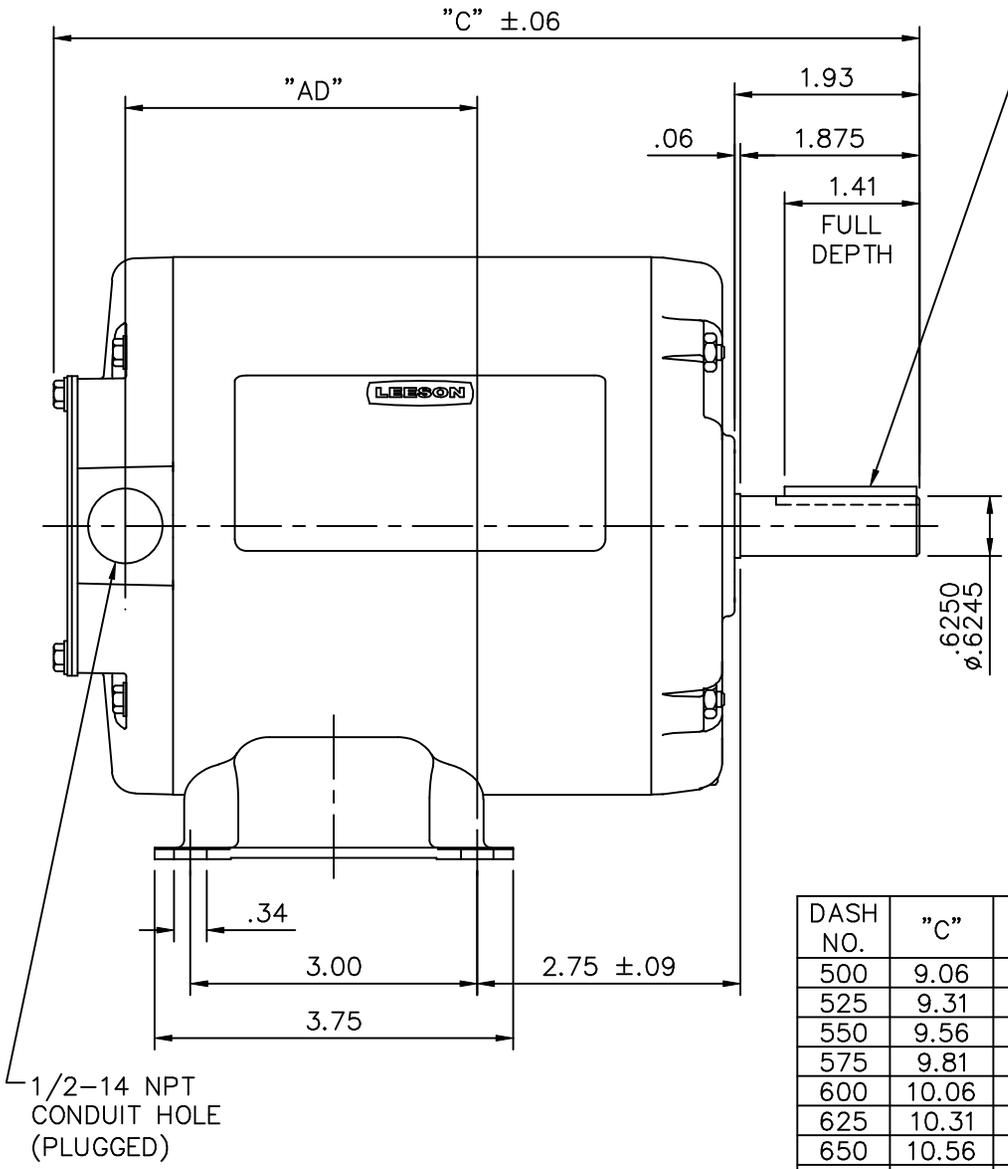


**Nameplate Specifications**

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>1725 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>S56</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>77 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>1.8/0.90 A</b>	Power Factor	<b>69</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>NO DESIGN CODE</b>	KVA Code	<b>M</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>43</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>9.166 Ohms</b>	Mounting	<b>Rigid Base</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>10.06 in</b>
Frame Length	<b>6.00 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>031653-600</b>



DASH NO.	"C"	"AD"
500	9.06	3.68
525	9.31	3.93
550	9.56	4.18
575	9.81	4.43
600	10.06	4.68
625	10.31	4.93
650	10.56	5.18
675	10.81	5.43

1/2-14 NPT  
CONDUIT HOLE  
(PLUGGED)

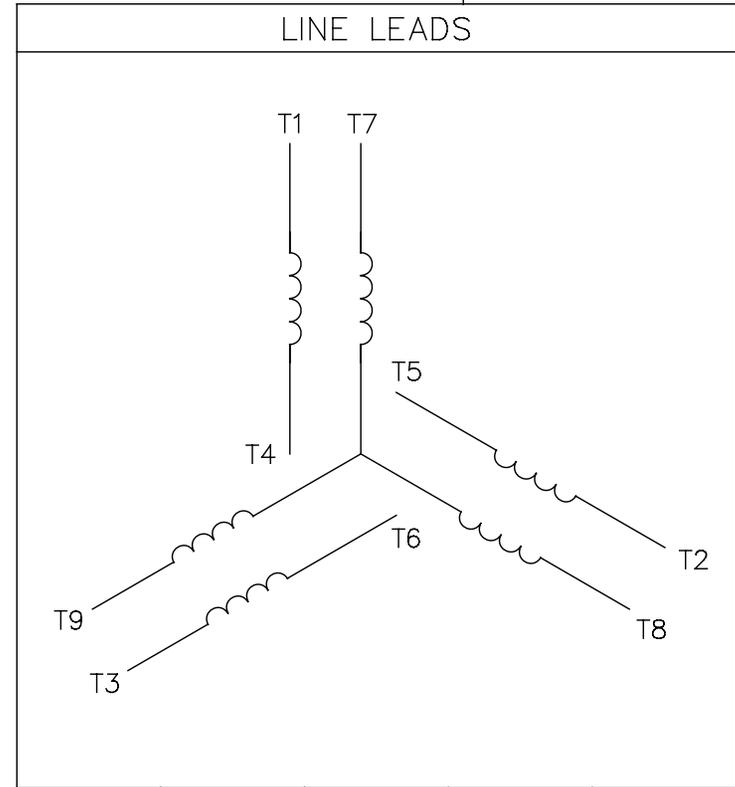
GASKETS THROUGHOUT

			TOLERANCES UNLESS OTHERWISE SPECIFIED			<b>LEESON</b> ELECTRIC CORPORATION			
			DEC.	INCHES	METRIC				
			.X	±.1	±2.5	DRAWN PG 9/28/01	TITLE		
			.XX	±.03	±.76	APPR.	OUTLINE - S56 FRAME RIGID MOUNT - TENV		
			.XXX	±.005	±.127	R.F.P.	MAT'L.		
			.XXXX	±.0005	±.0127	SCALE 1=2	3 PHASE		
NO.	REVISION	BY & DATE	CH'K'D.			REF. 031075	FINISH	REV.	DRAWING NO.
				FRACTIONS	±1/64	FMF 101649			031653
				ANGLES	±1/2'				

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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		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



**CERTIFICATION DATA SHEET**

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

CATALOG #: 102918.00

CONN. DIAGRAM: 005010.01

OUTLINE: 031653-600

MOUNTING: F1 ONLY

WINDING #: TE48453 NR 3 D

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	S56	TENV	M	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	208-230/460	1.8-1.8/.9	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	77	3/4 LOAD EFF:	73.8	1/2 LOAD EFF:	66.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	69	3/4 LOAD PF:	60.2	1/2 LOAD PF:	47.5	0	SQ CAGE IND RUN

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

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.053 LB-FT^2	0 LB-FT^2	10 SEC.	0	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	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	MULTEMP SRL	T	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

\*  
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S

<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: 1/22/2018

102918.00



Data @ 460 V

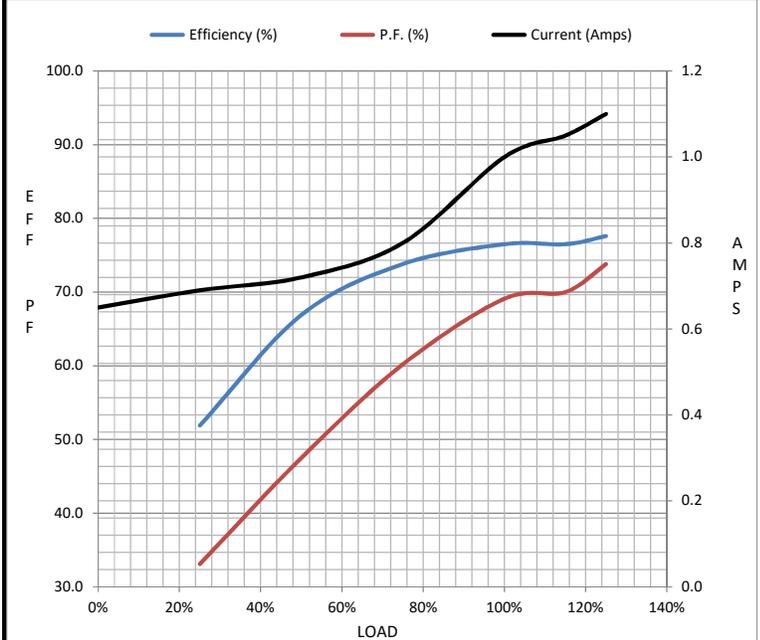
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.65	0.69	0.72	0.80	1.00	1.05	1.10	6.3
Torque (ft-lb)	0.00	94.5	186	289	383	447	450	1,459
RPM	1800	1787	1774	1760	1747	1,735	1737	0
Efficiency (%)		51.9	66.9	73.8	76.5	76.5	77.6	
P.F. (%)	22.8	33.1	47.5	60.2	69.1	70.0	73.8	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1747	1800
Current (Amps)	6.3	5.8	3.8	1.00	0.65
Torque (ft-lb)	1,459	1,213	1,565	383	0.00

Information Block				
HP	0.5			
Sync. RPM	1800			
Frame	48			
Enclosure	TENV			
Construction	TTR			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	M			
Service Factor	1.0			
Temp Rise @ FL	81 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.05 Lb-Ft <sup>2</sup>			
Ref Wdg	TE48453 NR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	031653-600			
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

