

# PRODUCT INFORMATION PACKET



Model No: 121672.00  
Catalog No: 121672.00  
1.50 HP General Purpose Motor, 3 phase, 3600 RPM, 230/460 V, 143TC Frame, TEFC  
General Purpose Motors



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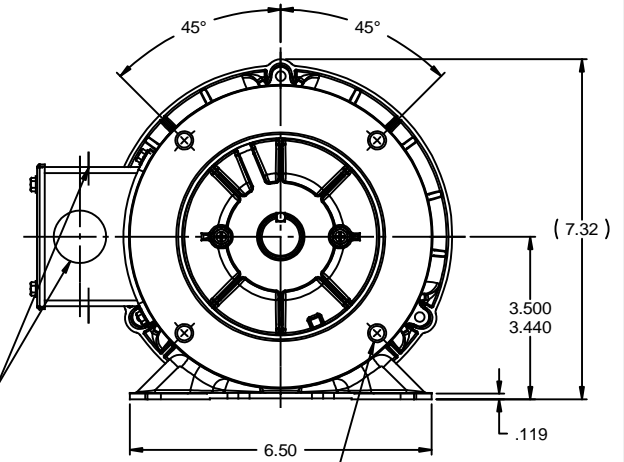
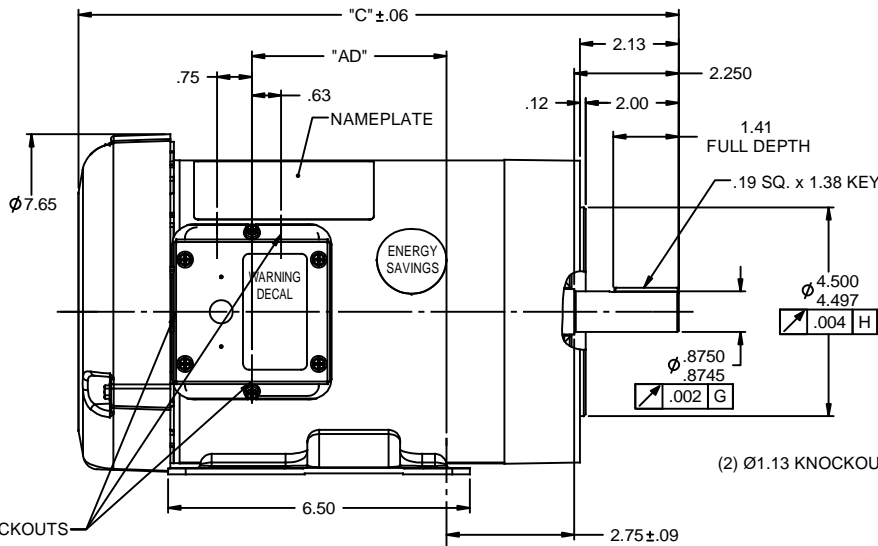
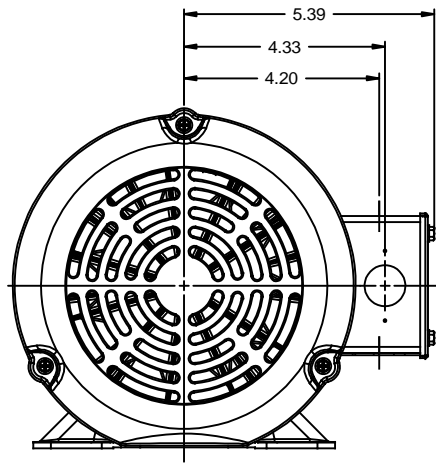


**Nameplate Specifications**

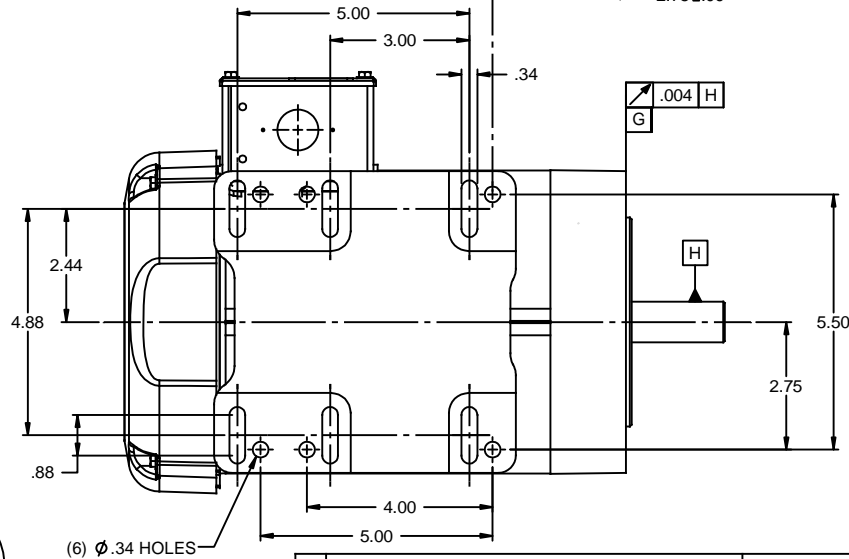
Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.0/2.0 A	Speed	3490 rpm
Service Factor	1.25	Phase	3
Efficiency	84 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	M
Frame	143TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

**Technical Specifications**

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	8.5 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	12.92 in
Frame Length	7.00 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.20	Outline Drawing	028911-700



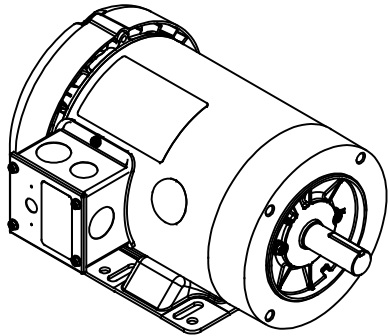
(3) Ø.88 KNOCKOUTS



(6) Ø.34 HOLES

NOTE:  
1) GASKETS THROUGHOUT

DASH NO.	"C"	"AD"
600	11.92	3.19
650	12.42	3.69
700	12.92	4.19
750	13.42	4.69
800	13.92	5.19



TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN GRB 12/05/08	
DEC	INCHES			CHK DJ 12/05/08	
x	±.1			APPR DJ 12/05/08	
.xx	±.03	TITLE OUTLINE - 140TC/56HCZ FRAME		SCALE 3:8	
.xxx	±.005	TEFC - RIGID "C" FACE		REF 028566	
.xxx	±.0005	MATL		FMF 120485.00	
01	ADDED BOTTOM VIEW	PG	5/19/2010	PAGE 1 OF 1	
REVISION		BY & DATE		FINISH GENERAL PURPOSE	
THIRD ANGLE PROJECTION		CHK	ANG ±1/2°	RFP 12/05/08	
		PREV		SIZE	DRAWING NO
		NETWORK FILE NAME 028911		B	028911
				REV 01	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



**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

DRAWING REVISION **G** REVISION BY **MVG** DATE **04/05/2017**

ECO **ECO-0121253** APPROVED BY **SM** DATE **04/05/2017**

ECO DESCRIPTION  
**ADDED P1 & P2 FOR TSTAT**

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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 **DBT 12/16/97**

DATE

APPROVED BY **KH 12/17/97**

DATE

REFERENCE

THIRD ANGLE PROJECTION

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**CONN DIAGRAM-EXTERNAL**  
**3 PHASE WITH PROTECTOR**

MATERIAL <b>DECAL - 004014 (TSTAT) - 080582</b>	PROCESS/FINISH <b>STOCK</b>
SIZE <b>A</b>	DRAWING NUMBER <b>00501020</b>
SHEET <b>1 OF 1</b>	

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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.20  
 OUTLINE: 028911-700  
 WINDING: T632173

CAT #: 121672.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	3600	3500	143TC	TEFC	TFR	M	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	4.05/2.05&3.5/1.75	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	84.0	3/4 LD EFF	81.9	1/2 LD EFF	78.9	GTD EFF	ELECT. TYPE
F.L. PF	83.6	3/4 LD PF	76.5	1/2 LD PF	64.7	0.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
2.25 LB-FT	20.1	8.9 LB-FT 396%	10.7 LB-FT 476%	50

PRESSURE @ 3	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
0 dBA	9 dBA	0.06 LB-FT <sup>2</sup>	0.1 LB-FT <sup>2</sup>	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	RIGID	HORIZONTAL	NO	NONE	NO	NONE	IN - LEESON WATTS

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6205	6203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	AUTOMATIC	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	0.080	ODE

* N O T E S *	INVERTER TORQUE: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE	

DATE: 1/31/2018	BRAKE: NONE	
	NONE	
	NONE	
	NONE	
FT-LB: NA		
VOLTAGE: NONE		
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 2/26/2018

121672.00



Data @ 460 V

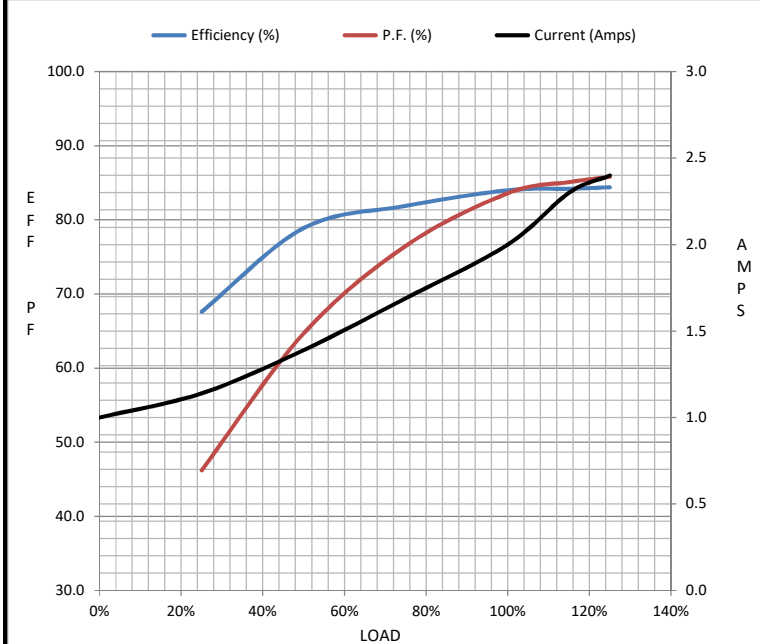
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.00	1.14	1.39	1.69	2.00	2.30	2.40	20.1
Torque (ft-lb)	0.00	0.56	1.12	1.68	2.25	2.65	2.80	8.9
RPM	3600	3570	3549	3535	3500	3,488	3480	0
Efficiency (%)		67.6	78.9	81.9	84.0	84.2	84.4	
P.F. (%)	12.6	46.2	64.7	76.5	83.6	85.1	85.8	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	220	2200	3500	3600
Current (Amps)	20.1	18.5	16.0	2.00	1.00
Torque (ft-lb)	8.9	8.6	10.7	2.25	0.00

Information Block				
HP	1.5			
Sync. RPM	3600			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.06 Lb-Ft <sup>2</sup>			
Ref Wdg	T632173 FR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	028911-700			
Conn. Diag	005010.20			
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

