

PRODUCT INFORMATION PACKET



Model No: 113581.00

Catalog No: 113581.00

White Duck™ General Purpose Motor, 0.50 HP, 1 Ph, 60 Hz, 115/230 V, 3600 RPM, 56C Frame, TEFC

Operational at 115/208-230 V @60HZ



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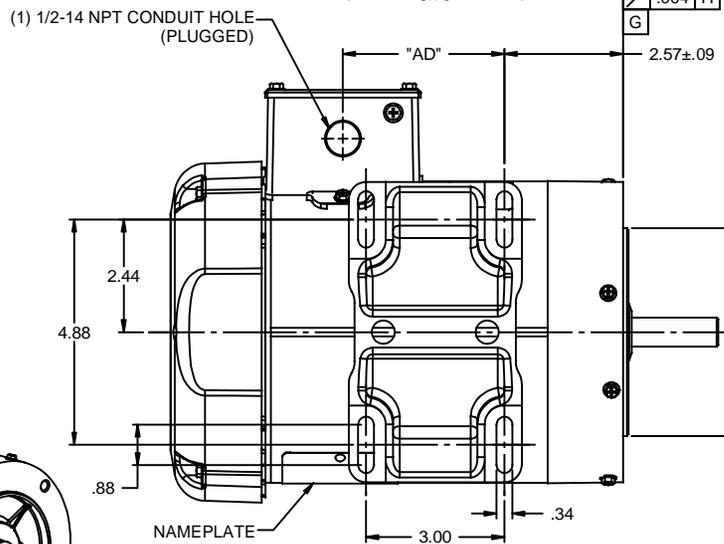
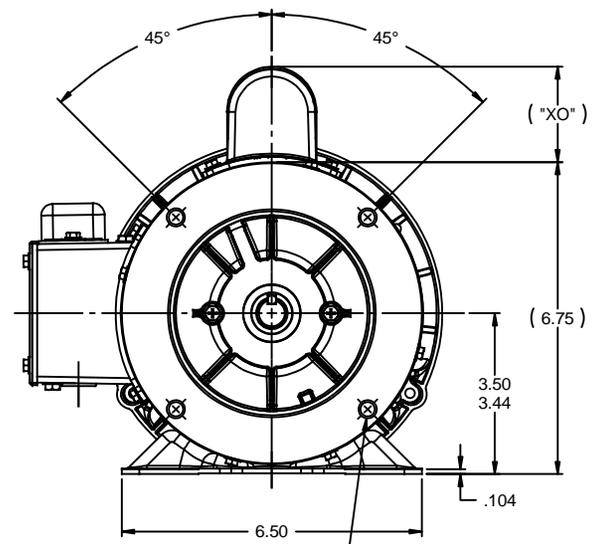
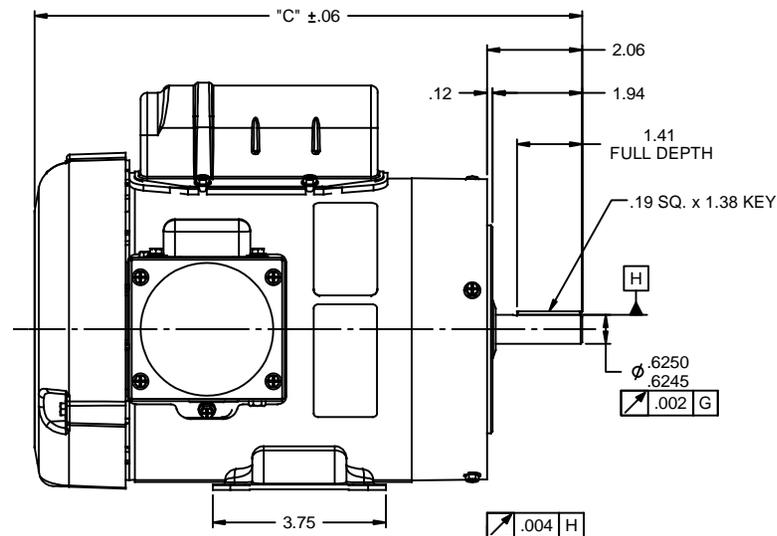
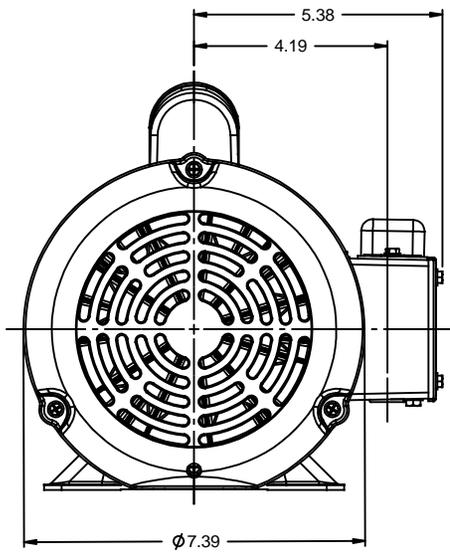


Nameplate Specifications

Phase	1	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	115/230 V
Speed	3450 rpm	Service Factor	1.15
Frame	56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	63 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	7.6/3.8 A	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	N	KVA Code	M
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	55
Number of Speeds	1		

Technical Specifications

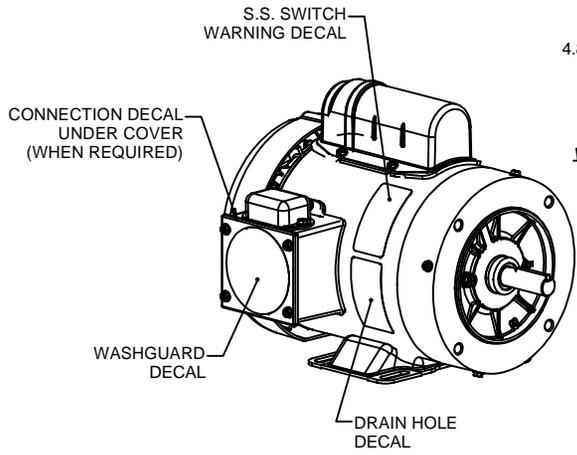
Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	4.42 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	10.37 in
Frame Length	4.50 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	607-0008-450A	Connection Drawing	005278.07



3/8-16 UNC-2B x .56 DEEP
(4) REQ'D. ON A Ø5.875 B.C.

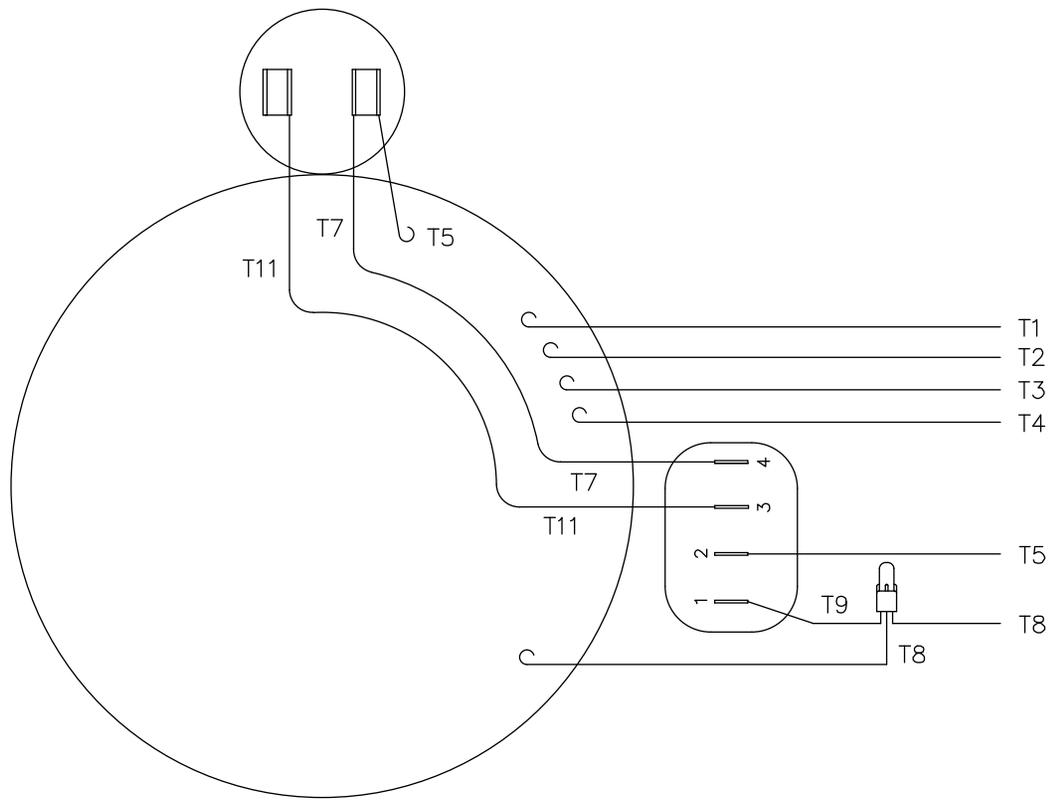
WASHGUARD MOTOR

- SPECIAL FEATURES:
1. SHAFT SEALS & V-RING.
 2. PLUGGED DRAIN HOLES IN ENDBELLS & CONDUIT BOX.
 3. BUNA-N GASKETS THROUGHOUT.
 4. STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE.
 5. SOLID STATE SWITCH MOUNTED TO CONDUIT BOX.

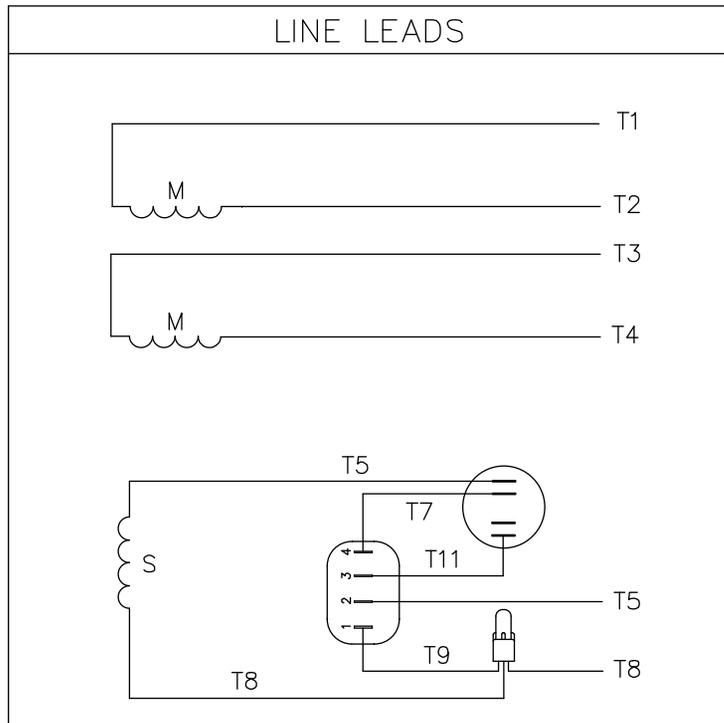


DASH NO.	"C"	"AD"	"XO"	DASH NO.	"C"	"AD"	"XO"
450A	10.37	2.00	2.00	450B	10.37	2.00	2.25
475A	10.62	2.25	2.00	475B	10.62	2.25	2.25
500A	10.87	2.50	2.00	500B	10.87	2.50	2.25
525A	11.12	2.75	2.00	525B	11.12	2.75	2.25
550A	11.37	3.00	2.00	550B	11.37	3.00	2.25
575A	11.62	3.25	2.00	575B	11.62	3.25	2.25
600A	11.87	3.50	2.00	600B	11.87	3.50	2.25
625A	12.12	3.75	2.00	625B	12.12	3.75	2.25
650A	12.37	4.00	2.00	650B	12.37	4.00	2.25

TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN PG 02/08/11	
DEC	INCHES	LEESON		CHK	
x	±.1	TITLE OUTLINE - 56C FRAME TEFC - RIGID "C" FACE MATL WASHGUARD		APPR	
.xx	±.03			SCALE 3:8	
.xxx	±.005			REF 028881	
.xxxx	±.0005			FMF 113580.00	
NO	REVISION	BY & DATE	CHK ANG ±1/2"	FINISH	PAGE OF
	THIRD ANGLE PROJECTION	RFP	PREV	SIZE	DRAWING NO
		NETWORK FILE NAME 607-0008		B	607-0008
					REV



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



	ROTATION FACING LEAD END	L1	L2	JOIN & INSULATE
HIGH VOLT	C.C.W.	T1	T4 T5	T2,T3 T8
	C.W.	T1	T4 T8	T2,T3 T5
LOW VOLT	C.C.W.	T1,T3 T8	T2,T4 T5	
	C.W.	T1,T3 T5	T2,T4 T8	

				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION				
				DECIMALS						
				.00	± .01	DRAWN	TITLE			
				.000	± .005	CH'K'D.	EXTERNAL WIRING DIAGRAM TYPE "C" W/O PROTECTOR			
01	ADDED DECAL FOR STOCK MOTORS ECR 0042509	GWS	9/10/13	.0000	± .0005	APPR.	MAT'L. DECAL - 004012			
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE	STOCK MOTORS TO USE DECAL 214-0122-001			
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				ANGLES	± 1/2*	REF.	005278-01	FINISH	SIZE	DRAWING NO.
				INCH/MM		FMF	131571	STANDARD	A	005278-07



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005278.07
OUTLINE: 607-0008-450A
WINDING #: C632209 FR 3 A

CATALOG #: 113581.00
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	3600	3450	56C	TEFC	M	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	7.6/4-3.8	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	63	3/4 LOAD EFF:	59.3	1/2 LOAD EFF:	51.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	70	3/4 LOAD PF:	61.6	1/2 LOAD PF:	51.6	59.5	CAP START IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12.09 OZ-FT	44 / 22	45 OZ-FT 375 %	32 OZ-FT 267 %	46

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.03 LB-FT^2	0 LB-FT^2	0 SEC.	0	28 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	WHITE - LEESON (EPOXY)

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
6205	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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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz



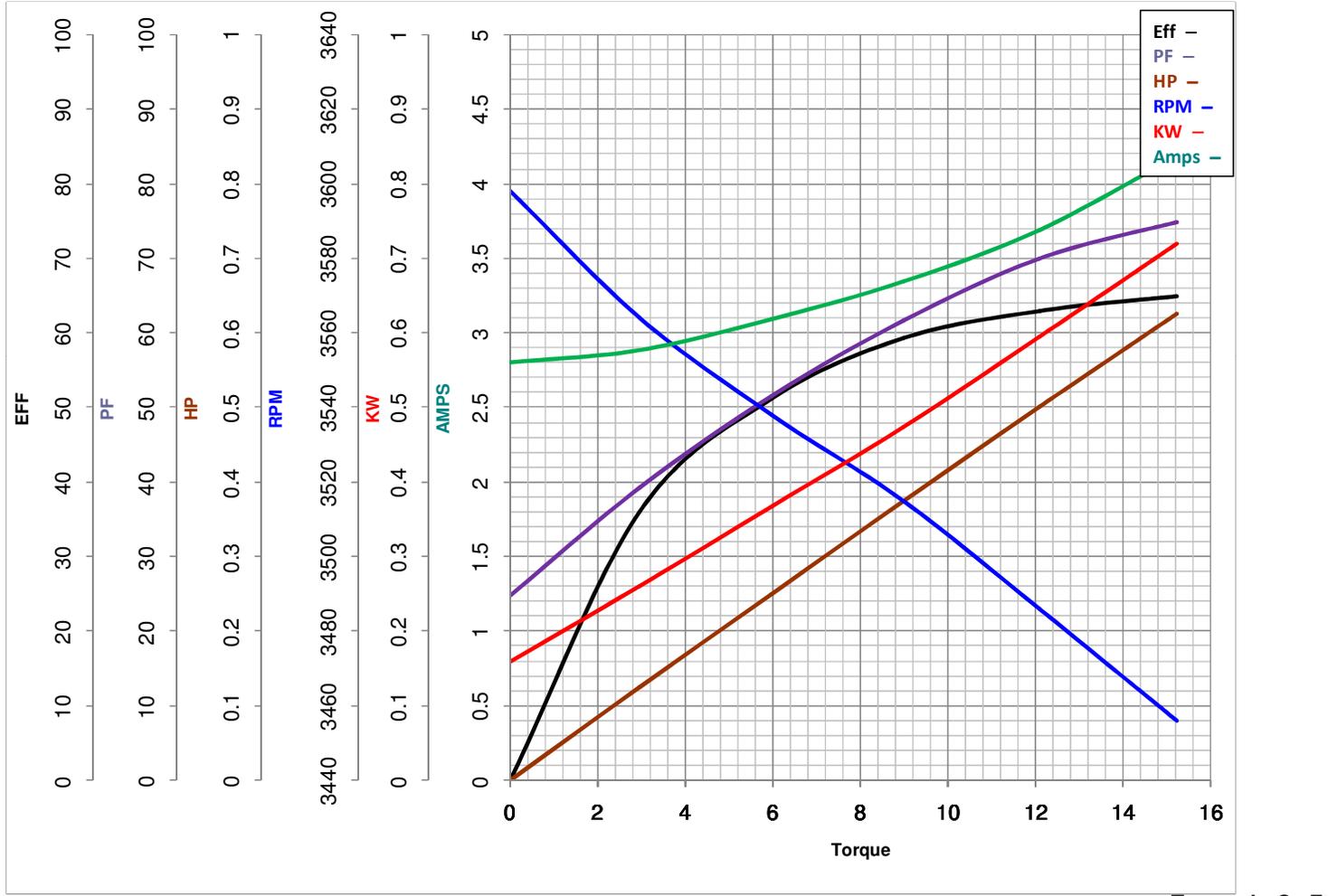
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 113581.00

Catalog No 113581.00

Curve at 230 Volts HP 0.50 PHASE 1
60 HZ
0.5 HP VOLTS 115/208-230

HZ 60 RPM 3450



Torque in Oz.Ft

FL TORQUE 12.09 Oz.Ft
 BD TORQUE 32.0 Oz.Ft
 LR TORQUE 45 Oz.Ft

FL AMPS 7.6/4-3.8
 PU TORQUE 32.0 Oz.Ft
 LR AMPS 22

WINDING C632209-3

Date 3/26/2018