

PRODUCT INFORMATION PACKET



Model No: 102965.00
Catalog No: 102965.00
Fan and Blower Motor, 0.50 HP, 1 Ph, 60 Hz, 277 V, 1800 RPM, S56 Frame, DP



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Nameplate Specifications

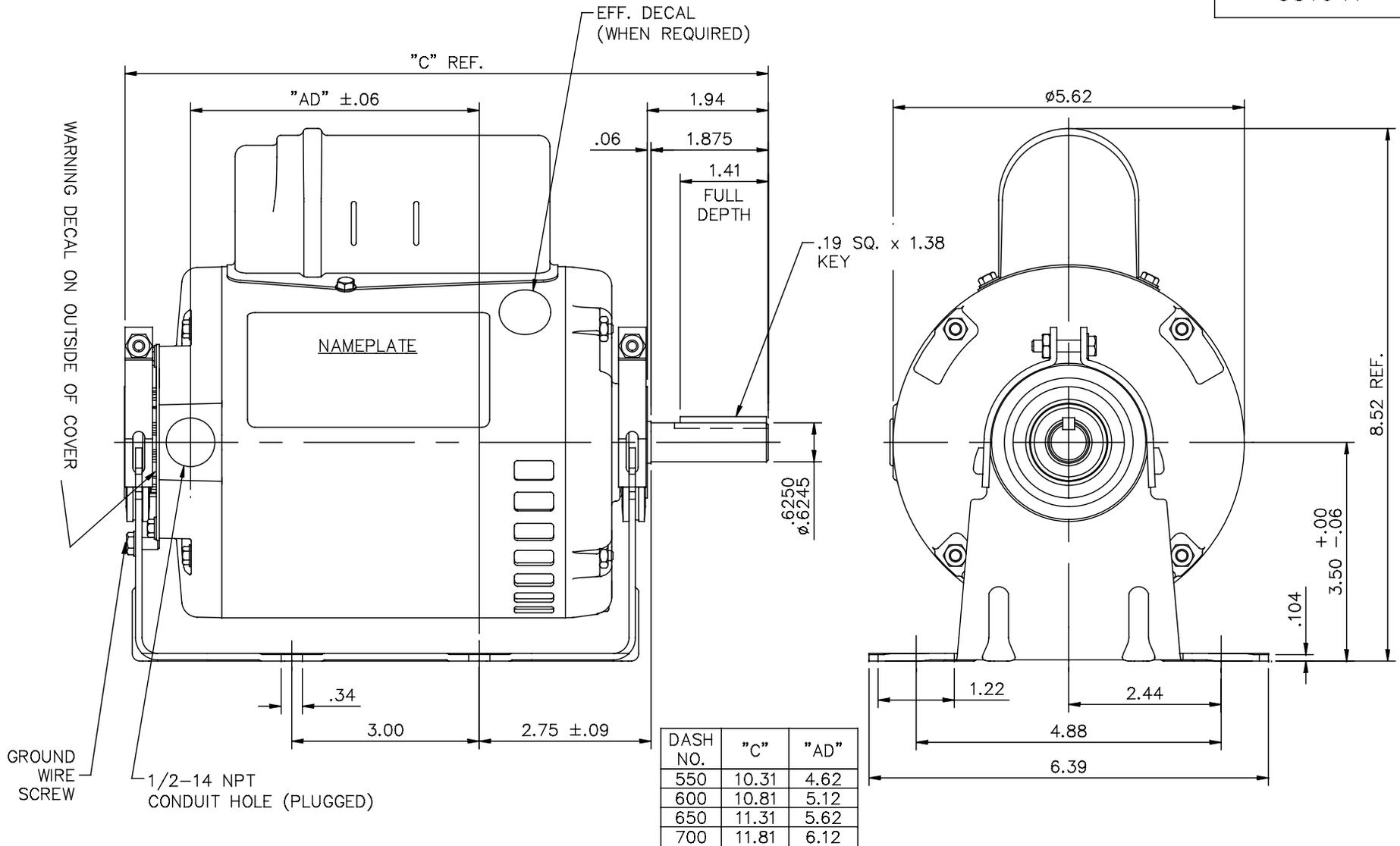
Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	277 V
Current	3.7 A	Speed	1725 rpm
Service Factor	1.25	Phase	1
Efficiency	62 %	Power Factor	59
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	K
Frame	S56	Enclosure	Drip Proof
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

Technical Specifications

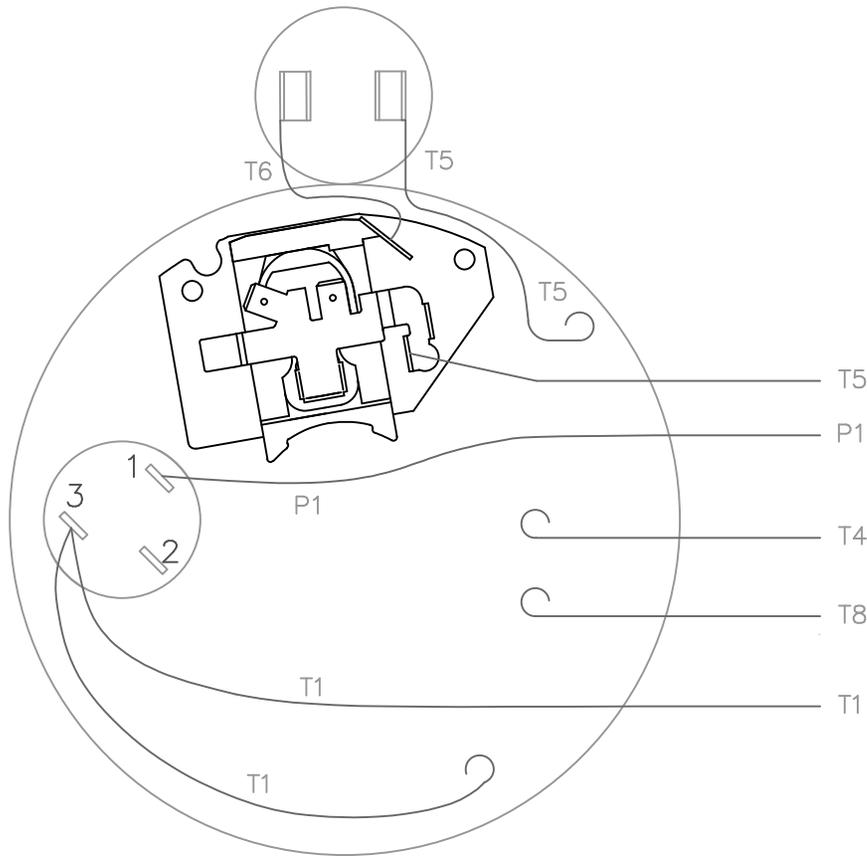
Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Resilient Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	10.81 in
Frame Length	6.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005028.21	Outline Drawing	031641-600

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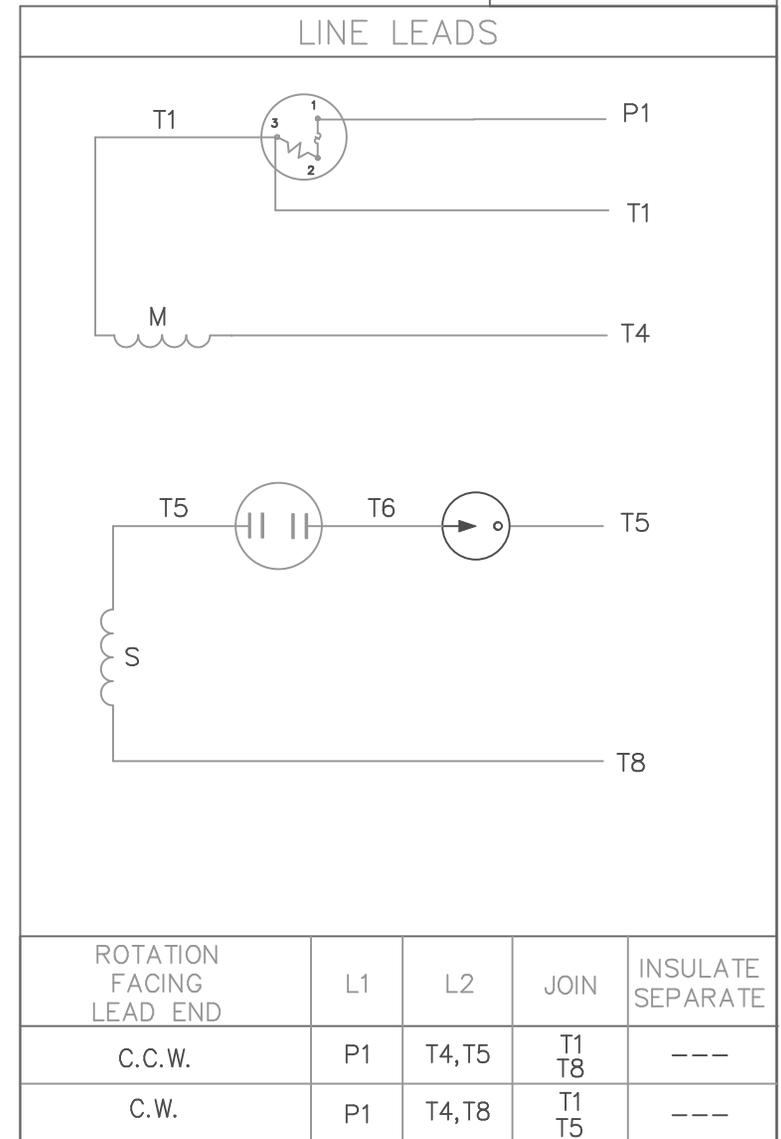
031641



				TOLERANCES UNLESS OTHERWISE SPECIFIED			LEESON ELECTRIC CORPORATION			
				DEC.	INCHES	METRIC				
				.X	±.1	±2.5	DRAWN	PG 7/25/01	TITLE	OUTLINE - S56 FRAME
A	UPDATED WITH GROUND SCREW, OUTSIDE COVER	SL	10/09/15	JD	.XX	±.03	±.76	APPR.		RESILIENT MOUNT - DRIP PROOF
	& EFF DECAL				.XXX	±.005	±.127	R.F.P.	MAT'L.	1 PHASE
NO.	REVISION	BY & DATE	CH'K'D.	.XXXX	±.0005	±.0127	SCALE	1=2		
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				FRACTIONS	±1/64	REF.	030485	FINISH	REV.	DRAWING NO.
				ANGLES	±1/2°	FMF			A	031641



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END



				TOLERANCES UNLESS OTHERWISE SPECIFIED			LEESON ELECTRIC CORPORATION				
				DEC.	INCHES	METRIC	DRAWN	PG 10/1/01	TITLE		
				.X	±.1	±2.5	APPR.		EXTERNAL WIRING DIAGRAM TYPE "C" W/PROTECTOR		
				.XX	±.01	±.25	R.F.P.				
				.XXX	±.005	±.127	SCALE	5=8	MAT'L. SINGLE VOLTAGE - DUAL ROTATION DECAL - 004015		
				.XXXX	±.0005	±.0127	REF.	PAGE 1			
NO.	REVISION	BY & DATE	CH'K'D.	FRACTIONS	±1/64	REF.	PAGE 1	FINISH	REV.	DRAWING NO.	005028-21
				ANGLES	±1/2°	FMF	101621				

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CERTIFICATION DATA SHEET

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

CATALOG #: 102965.00

CONN. DIAGRAM: 005028.21

OUTLINE: 031641-600

MOUNTING: F1 ONLY

WINDING #: CE484206 DR 4 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	S56	DP	K	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	277	3.7	ACROSS THE LINE	CONTINUOUS	B3	1.25	40

FULL LOAD EFF:	62	3/4 LOAD EFF:	59.7	1/2 LOAD EFF:	51.9	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	59	3/4 LOAD PF:	52.3	1/2 LOAD PF:	42.3	57.5	CAP START IND RUN		

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
24.1 OZ-FT	16.6	0 OZ-FT 0 %	61.3 OZ-FT 255 %	64

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	-1 LB-FT^2	0 LB-FT^2	0 SEC.	0	22 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RESILIENT BASE	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

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						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

*
N
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E

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

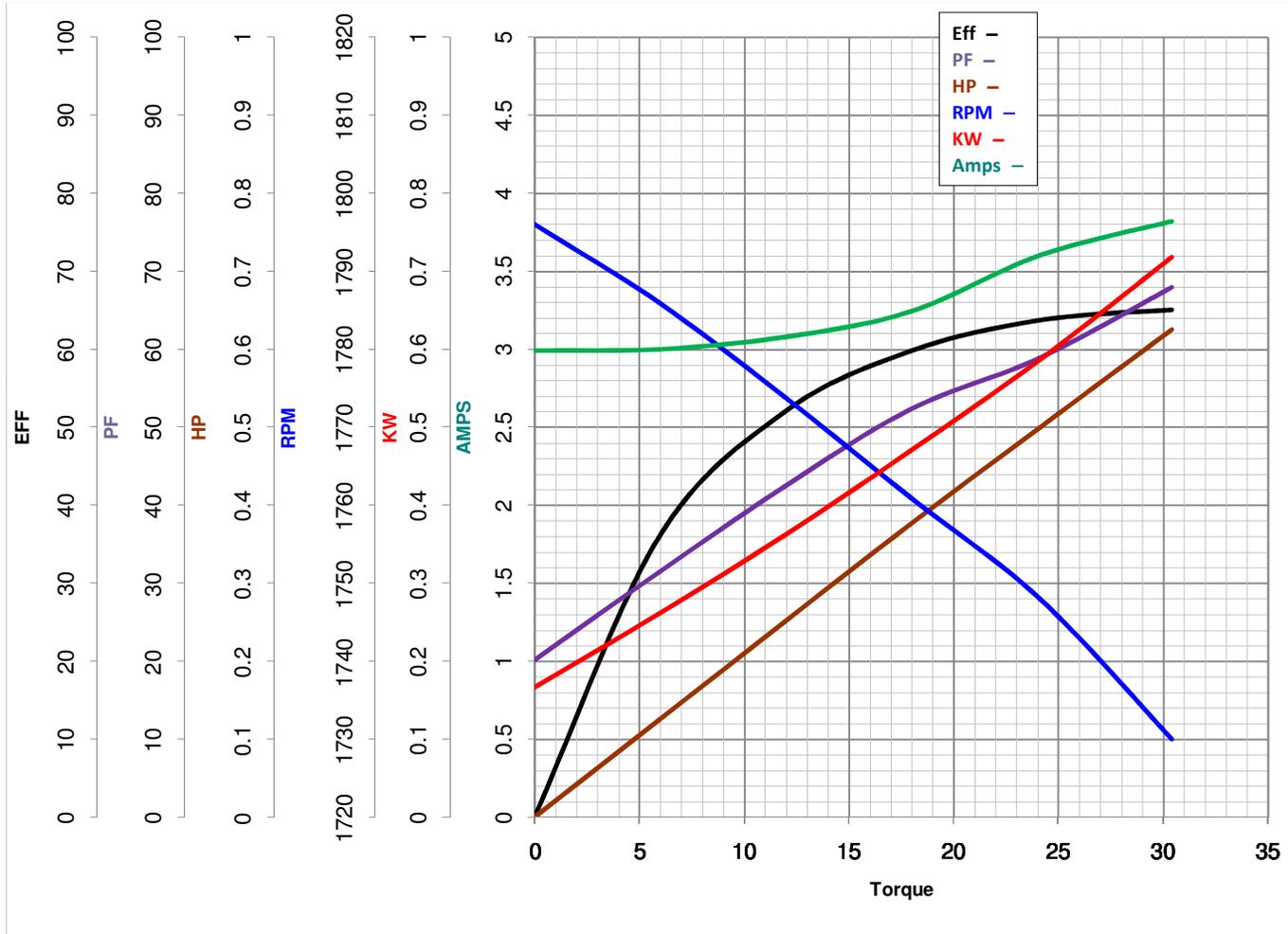


LEESON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 102965.00

Catalog No 102965.00

Curve at 277 Volts HP 0.50 PHASE 1
60 HZ
0.5 HP VOLTS 277
HZ 60 RPM 1725



Torque in Oz.Ft

FL TORQUE 24.1 Oz.Ft
 BD TORQUE 61.3 Oz.Ft
 LR TORQUE 0 Oz.Ft

FL AMPS 3.7
 PU TORQUE 58.1 Oz.Ft
 LR AMPS 16.6

WINDING CE484206-4

Date 3/27/2018