

# PRODUCT INFORMATION PACKET



Model No: 120554.00  
Catalog No: 120554.00  
Air Compressor Motor, 5 HP, 1 Ph, 60 Hz, 230 V, 3600 RPM, 145T Frame, DP



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### Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230 V
Current	20.8 A	Speed	3450 rpm
Service Factor	1	Phase	1
Efficiency	82.5 %	Power Factor	95
Duty	Continuous	Insulation Class	F
Design Code	L	KVA Code	E
Frame	145T	Enclosure	Drip Proof
Thermal Protection	Manual	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

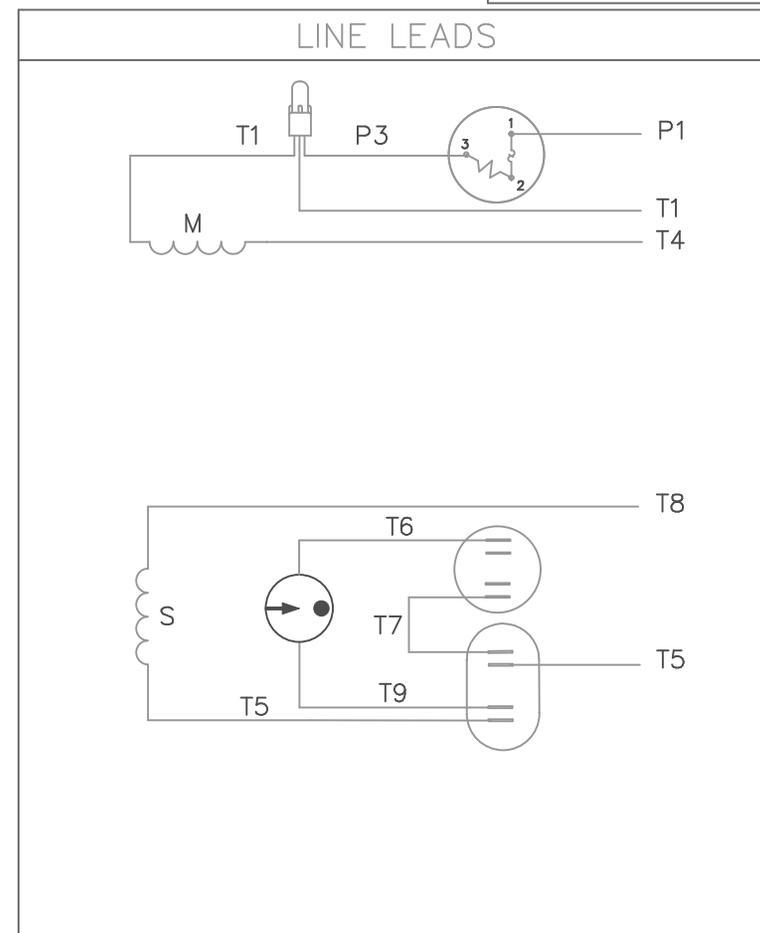
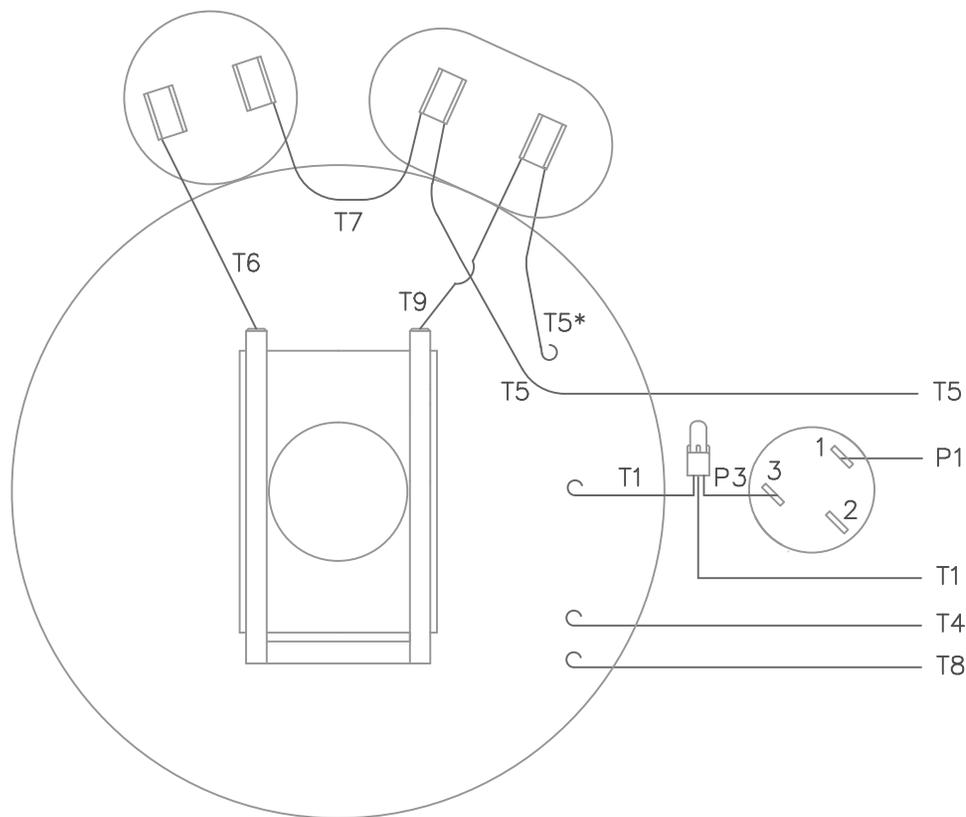
### Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Clockwise
Resistance Main	.52 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	13.20 in
Frame Length	8.00 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	028588	Connection Drawing	005056.03

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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



ROTATION FACING LEAD END	L1	L2	JOIN
C.C.W.	P1	T4, T5	T1, T8
C.W.	P1	T4, T8	T1, T5

\* THIS LEAD MAY BE WHITE

			TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN WLW 08/30/76 CHK WRK 09/24/76 APPD		
			DEC.	INCHES					
			.X	±.1					
08	ALTERNATE T5 LEAD MARKING WAS RED	RLW 8/6/02	.XX	±.01	TITLE	EXTERNAL WIRING DIAGRAM TYPE "K" W/ PROTECTOR	SCALE 1=1		
07	ADDED ALTERNATE T5 LEAD MARKING	RLW 5/31/02	KH	±.005			REF		
06	REDRAWN TO CAD	DBT 5/31/02		±.0005	MAT'L.	DECAL - 004015	FMF 6K17FB4		
NO.	REVISION	BY & DATE	CHK	ANG	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		CAD FILE	00505603	SIZE A	DRAWING NO. 005056-03	REV. 08
			DIST	BRF-NLV					



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005056.03  
**OUTLINE:** 028588  
**WINDING #:** K632130 DR 2 A

**CATALOG #:** 120554.00  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	3600	3450	145T	DP	E	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	230	20.8	ACROSS THE LINE	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	82.5	3/4 LOAD EFF:	83.8	1/2 LOAD EFF:	82.8	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	95	3/4 LOAD PF:	93.8	1/2 LOAD PF:	91.4	80	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	107	12.3 LB-FT 164 %	14.3 LB-FT 191 %	105

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.095 LB-FT^2	0.1 LB-FT^2	10 SEC.	0	49 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	POLYREX EM	T	VERIFY	VERIFY	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

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

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<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 NONE FT-LB NONE V NONE Hz



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**PREPARED BY:** Dinesh  
Suddula **DATE:**  
02/22/2019 02:25:58 AM  
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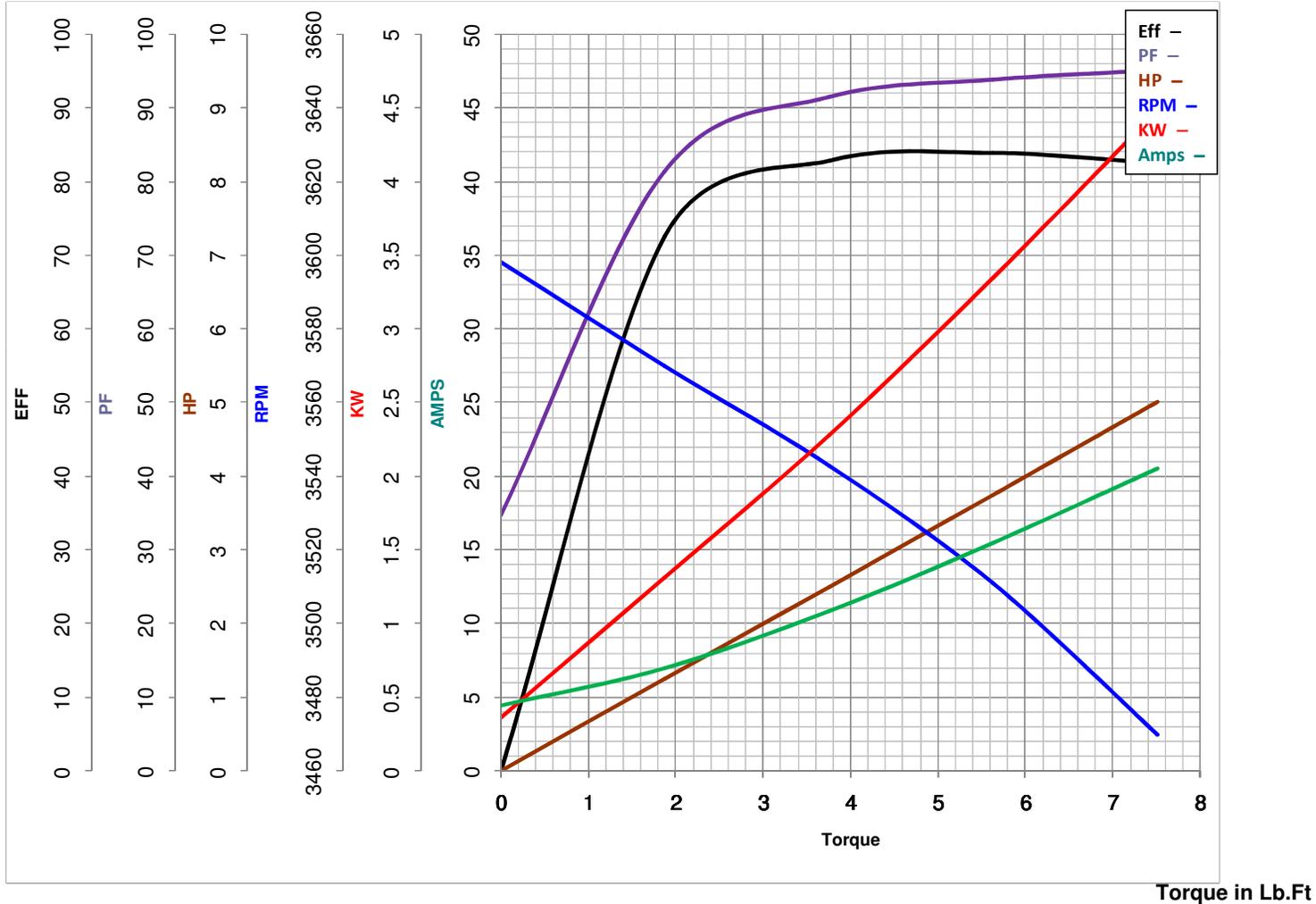


**LEESON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 120554.00

Catalog No 120554.00

Curve at 230 Volts      HP 5.00      PHASE 1  
60 HZ  
5 HP      VOLTS 230  
HZ 60      RPM 3450



<b>FL TORQUE</b>	<u>7.5</u>	Lb.Ft	<b>FL AMPS</b>	<u>20.8</u>	
<b>BD TORQUE</b>	<u>14.3</u>	Lb.Ft	<b>PU TORQUE</b>	<u>13.3</u>	Lb.Ft
<b>LR TORQUE</b>	<u>12.3</u>	Lb.Ft	<b>LR AMPS</b>	<u>107</u>	
<b>WINDING</b>	K632130-2		<b>Date</b>	3/16/2018	