

# PRODUCT INFORMATION PACKET



Model No: 110420.00

Catalog No: 110420.00

General Purpose Motor, 1.50 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 56C Frame, TEFC

**Operational at 115/208-230 V @60HZ**



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### Nameplate Specifications

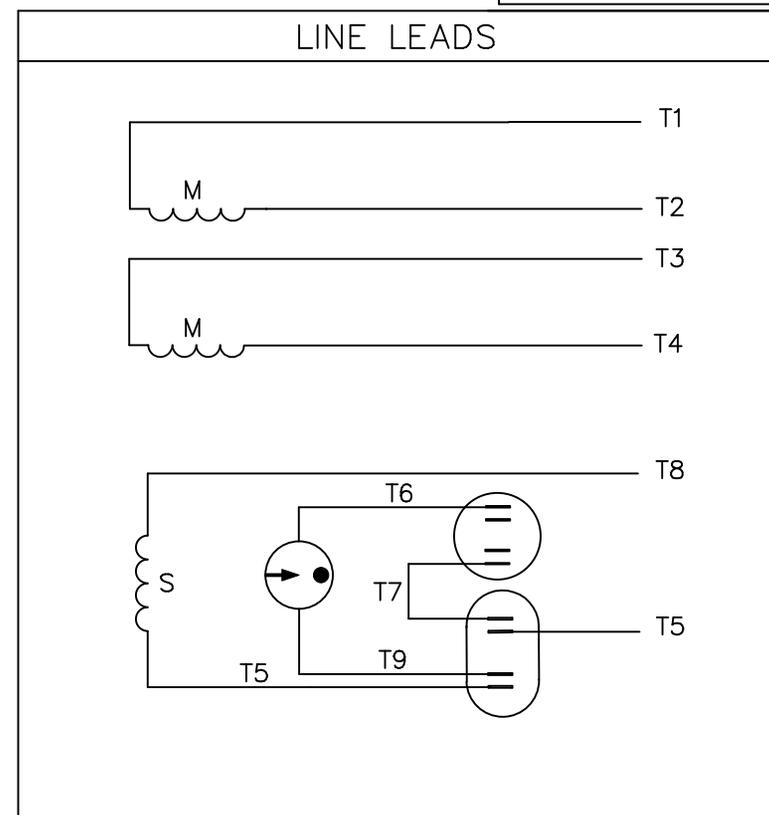
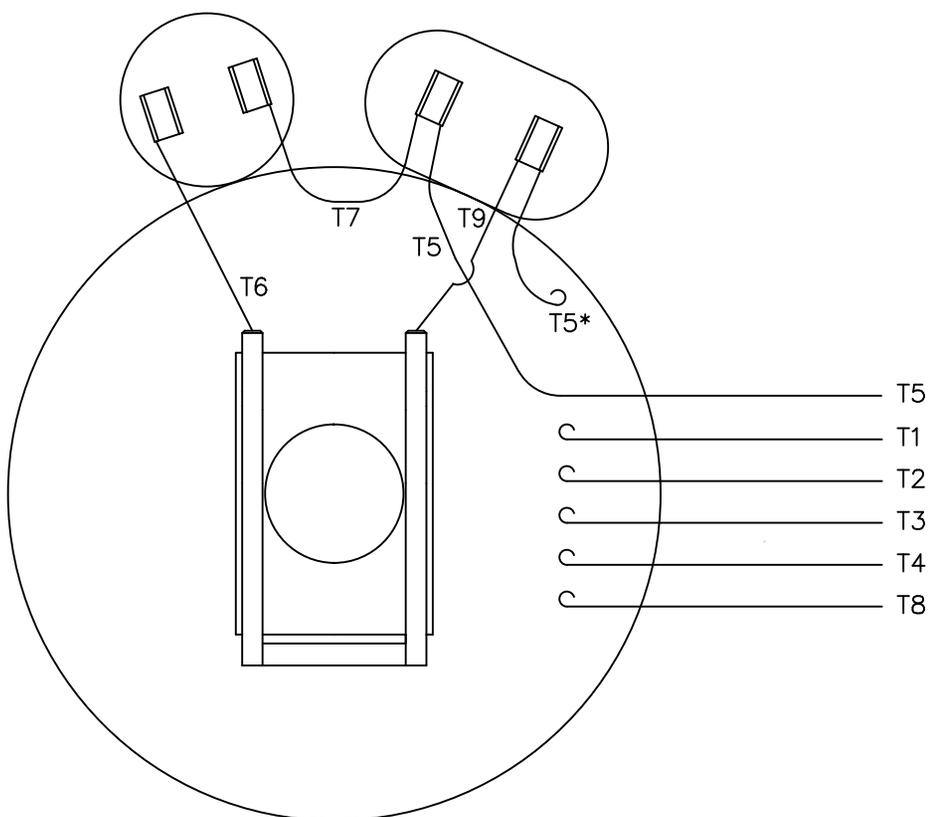
Phase	1	Output HP	1.50 Hp
Output KW	1.1 kW	Voltage	115/230 V
Speed	1725 rpm	Service Factor	1.0
Frame	56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	79 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	17.2/8.6 A	Power Factor	73
Duty	Continuous	Insulation Class	B
Design Code	L	KVA Code	J
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	54
Number of Speeds	1		

### Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	1.4 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	12.99 in
Frame Length	7.50 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005054.01	Outline Drawing	028783-750B



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



	ROTATION FACING LEAD END	L1	L2	JOIN
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	

\* THIS LEAD MAY BE WHITE

		TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN JRW 09/27/74			
		DEC.	INCHES	TITLE		CHK	TEM		
		.X	±.1	EXT. WIRING DIAGRAM TYPE "K" W/O PROTECTOR		APPD	10/11/74		
11	ALTERNATE T5 LEAD MARKING WAS RED	RLW	8/6/02	.XX	±.01	SCALE	1=1		
10	ADDED ALTERNATE T5 LEAD MARKING	RLW	6/5/02	KH	.XXX	±.005	REF	A-005053	
09	REDRAWN TO CAD	DBT	05/28/97		.XXXX	±.0005	FMF	W-K6343	
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	CAD FILE	00505401	SIZE	DRAWING NO.	REV.
				DIST	BRF-NLV		A	005054-01	11



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005054.01  
**OUTLINE:** 028783-750B  
**WINDING #:** K634278 FR 3 A

**CATALOG #:** 110420.00  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	1800	1725	56C	TEFC	J	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	17.2/8.8-8.6	ACROSS THE LINE	CONTINUOUS	B4	1.0	40

FULL LOAD EFF:	79	3/4 LOAD EFF:	78.7	1/2 LOAD EFF:	75.8	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	73	3/4 LOAD PF:	65.8	1/2 LOAD PF:	53.2	75.5	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.48 LB-FT	102 / 51	13 LB-FT 290 %	10.8 LB-FT 241 %	84

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.14 LB-FT^2	0 LB-FT^2	10 SEC.	0	39 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	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	NOT	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



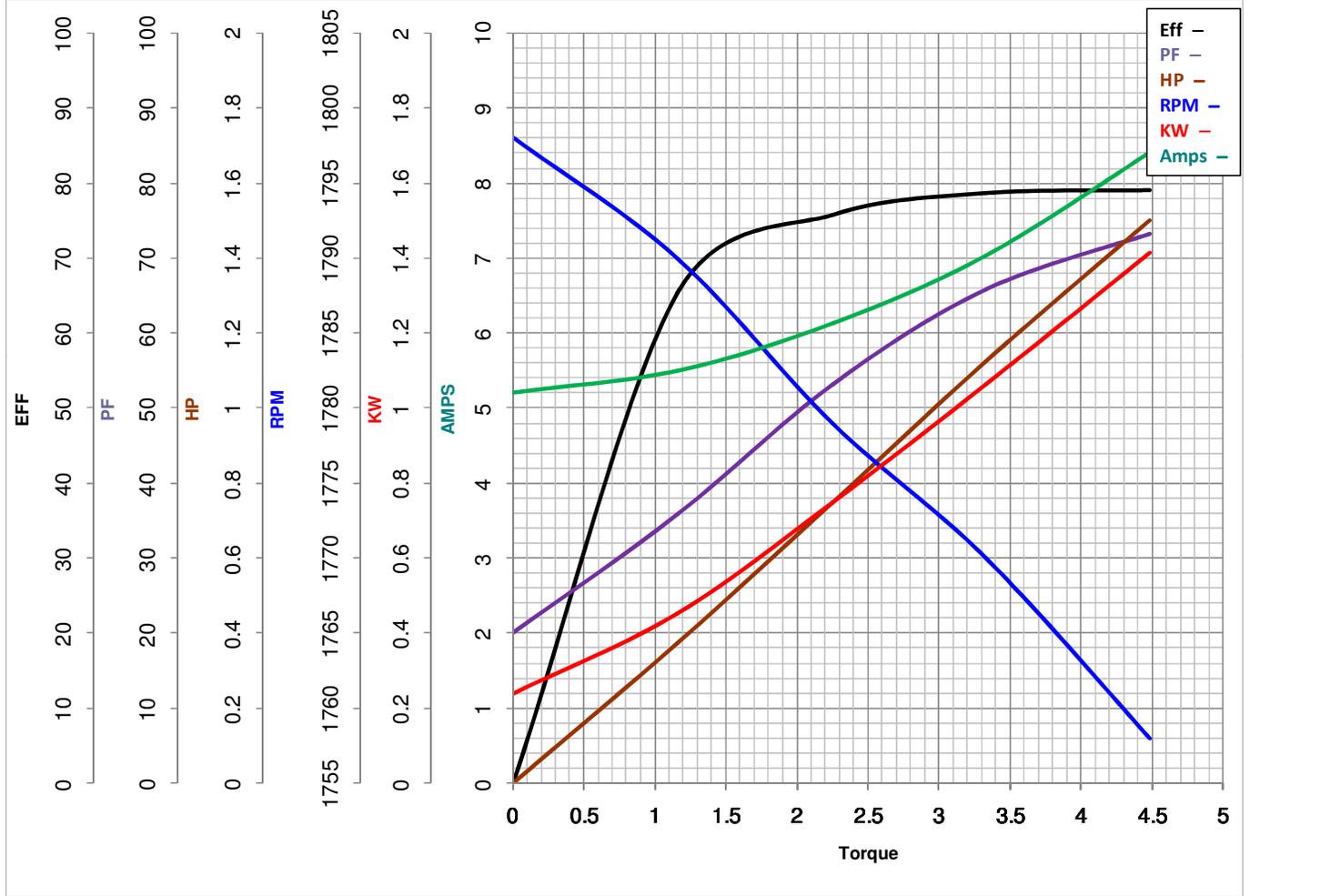
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 110420.00

Curve at 230 Volts      HP 1.50      PHASE 1  
60 HZ  
1.5 HP      VOLTS 115/208-230

Catalog No 110420.00

HZ 60      RPM 1725



Torque in Lb.Ft

FL TORQUE 4.48 Lb.Ft  
 BD TORQUE 10.8 Lb.Ft  
 LR TORQUE 13 Lb.Ft

FL AMPS 17.2/8.8-8.6  
 PU TORQUE 9.3 Lb.Ft  
 LR AMPS 51

WINDING K634278-3

Date 3/23/2018