

# PRODUCT INFORMATION PACKET

Model No: 114162.00

Catalog No: 114162.00

Brake Motor, 0.50 HP, 3 Ph, 60 Hz, 208-230/460 V, 1800 RPM, 56 Frame, DP



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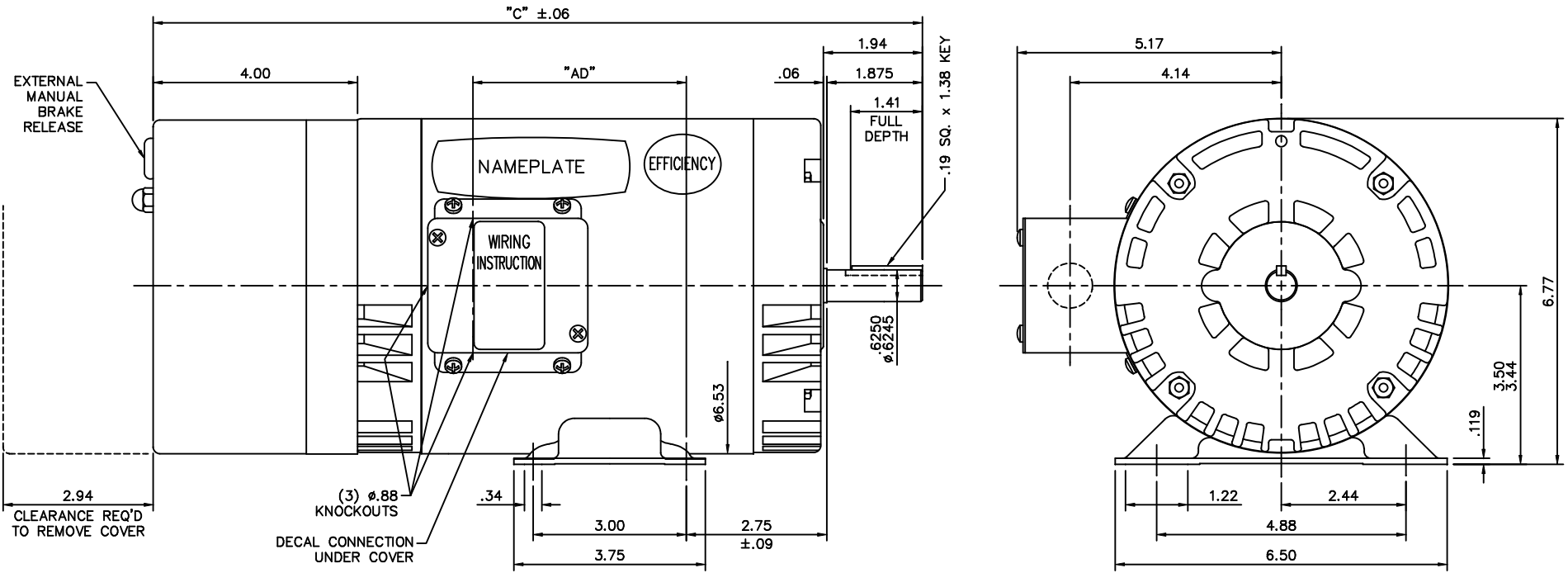
### Nameplate Specifications

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>208-230/460 V</b>
Current	<b>2.0/1.0 A</b>	Speed	<b>1725 rpm</b>
Service Factor	<b>1.25</b>	Phase	<b>3</b>
Efficiency	<b>74 %</b>	Power Factor	<b>63</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>B</b>	KVA Code	<b>K</b>
Frame	<b>56</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6203</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>0 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>NEMA 56</b>	Overall Length	<b>13.56 in</b>
Frame Length	<b>5.00 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>028523-500</b>	Connection Drawing	<b>005010.15</b>

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DASH NO.	"C"	"AD"
500	13.56	2.68
550	14.06	3.18
600	14.56	3.68
650	15.06	4.18
700	15.56	4.68

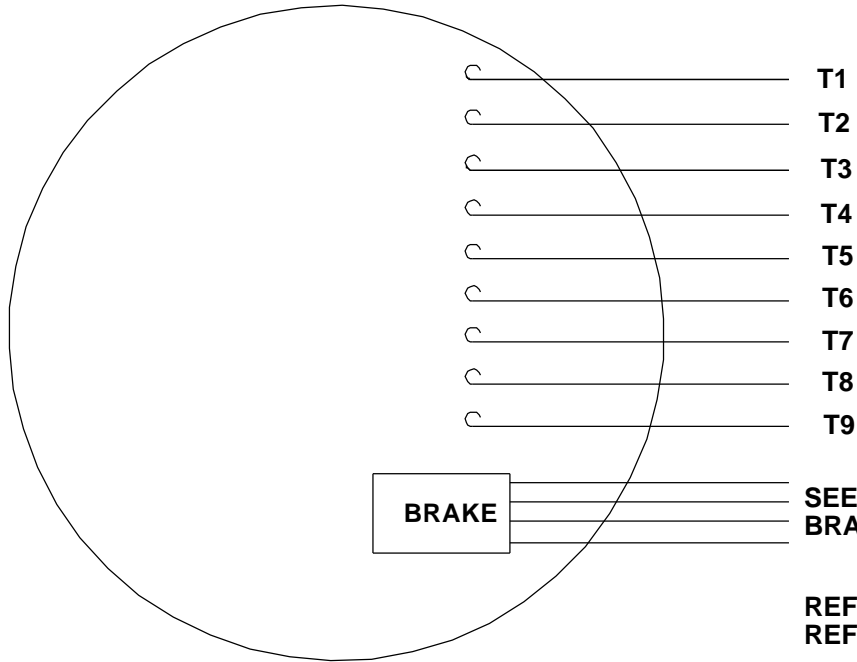
			TOLERANCES UNLESS SPECIFIED		<b>LEESON</b>	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	BJB	06/12/03	
			DEC.	INCHES			CHK			
			.X	±.1			APPD			
			.XX	±.03			TITLE	OUTLINE 56 FRAME DRIP PROOF - RIGID		
			.XXX	±.005	MAT'L	BRAKEMOTOR				
			.XXXX	±.0005	FINISH	PREV				
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	CAD FILE	028523	SIZE	DRAWING NO.	REV.
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		B	028523	
						DIST				

```
ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--
```

```
STACK:
```

```
/im  
-savelevel-
```

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

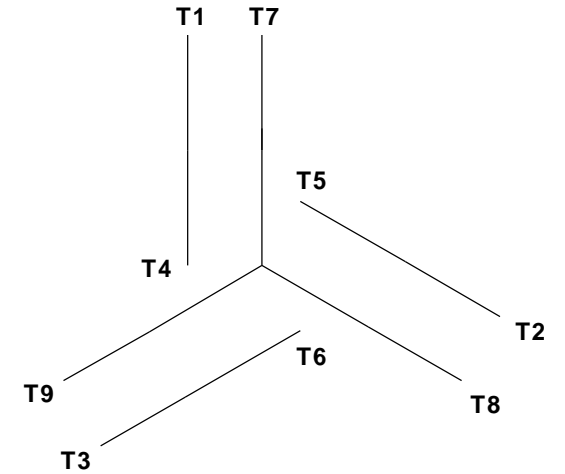


**CAUTION:**  
LEAD WIRE INSULATION TO EXTEND  
MINIMUM OF 1/4" INTO CONNECTOR  
INSULATION

SEE TABLE FOR  
 BRAKE CONNECTIONS

REF. DECAL (MOTOR) - 004014  
 REF. DECAL (BRAKE) - 080034 (STEARNS & DINGS BRAKE)

**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

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**TYPE "T" W/O PROTECTOR**

VOLTAGE	STEARNS BRAKE			DINGS BRAKE		
	L1	L2	Join	L1	L2	Join
HIGH	1(RE D)	2(RE D)	3(BLACK) 4(BLACK)	2(BLACK)	4(YELLOW)	1(YELLOW) 3(BLACK)
LOW	1(RE D) 3(BLACK)	2(RE D) 4(BLACK)	-----	2(BLACK) 3(BLACK)	1(YELLOW) 4(YELLOW)	-----

				TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN JJK 09/17/96	
				DEC	INCHES		CHK	
				.X	±.1	APPR		
				.XX	±.01	SCALE 1:1		
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11	.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM STANDARD 3 PHASE - DUAL VOLTAGE		REF 005010-01	
01	ADDED DINGS AND BRAKE TABLE (PER CN114156)	TMZ 11/12/96	.XXXX	±.0005	MAT'L W/STEARNS OR DINGS DUAL VOLTAGE BRAKE CONN.		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH LEESON STOCK		PAGE OF
THIRD ANGLE PROJECTION				RFP	PREV	SIZE	DRAWING NO	REV
				NETWORK FILE NAME 00501015		A	005010-15	--



CERTIFICATION DATA SHEET

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

CATALOG #: 114162.00

CONN. DIAGRAM: 005010.15

OUTLINE: 028523-500

MOUNTING: F1 ONLY

WINDING #: T634199 DR 3 B

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	56	DP	K	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	208-230/460	2/1	ACROSS THE LINE	CONTINUOUS	B4	1.25	40

FULL LOAD EFF:	74	3/4 LOAD EFF:	67.5	1/2 LOAD EFF:	60.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	63	3/4 LOAD PF:	54.5	1/2 LOAD PF:	43.5	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
0 OZ-FT	10.2 / 5.1	60 OZ-FT 250 %	86.5 OZ-FT 360 %	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.05 LB-FT^2	0.1 LB-FT^2	- SEC.	-	- LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	BRAKE	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	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

\*  
N  
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S

<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE
NONE NONE
NONE NONE PPR
<b>BRAKE:</b> REGAL SUPPLIED AND MOUNT NONE
STEARNS P/N 004225.11
56,000 NEMA 2
3 FT-LB 230/460-190/380 V 60/50 Hz

Data Sheet

Date: 1/22/2018

114162.00



Data @ 460 V

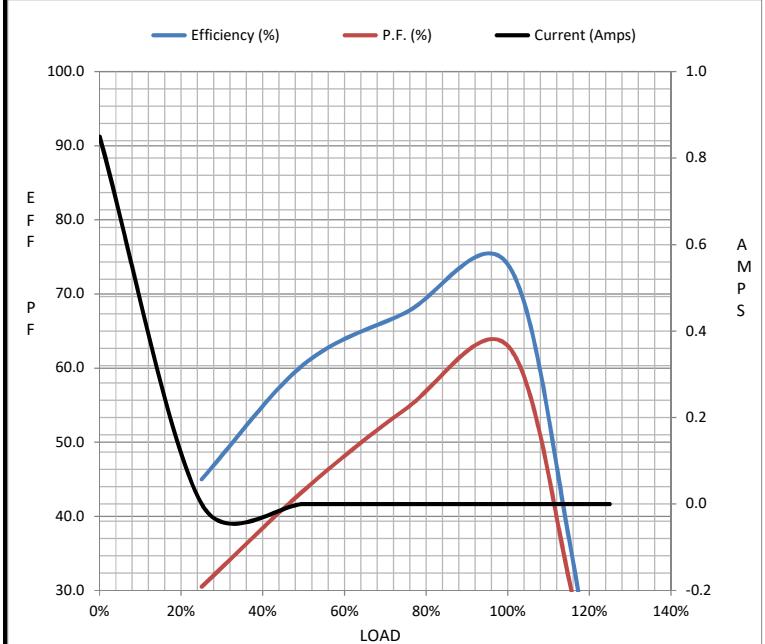
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.85	0.00	0.00	0.00	0.00	0.00	0.00	5.1
Torque (ft-lb)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RPM	1800	0	0	0	0	0	0	0
Efficiency (%)		45.0	60.5	67.5	74.0	37.0	0.0	
P.F. (%)	0.0	30.5	43.5	54.5	63.0	31.5	0.0	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	0	1800
Current (Amps)	5.1	4.7	3.1	0.00	0.85
Torque (ft-lb)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00

Information Block				
HP	0.5			
Sync. RPM	1800			
Frame	140			
Enclosure	DP			
Construction	NA			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	#DIV/0!			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.05 Lb-Ft <sup>2</sup>			
Ref Wdg	T634199 DR			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	028523-500			
Conn. Diag	005010.15			
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

