

PRODUCT INFORMATION PACKET



Model No: 116463.00
Catalog No: 116463.00
0.50 HP Washdown Motor, 3 phase, 1800 RPM, 208-230/460 V, 56C Frame, TENV
Brake Motors



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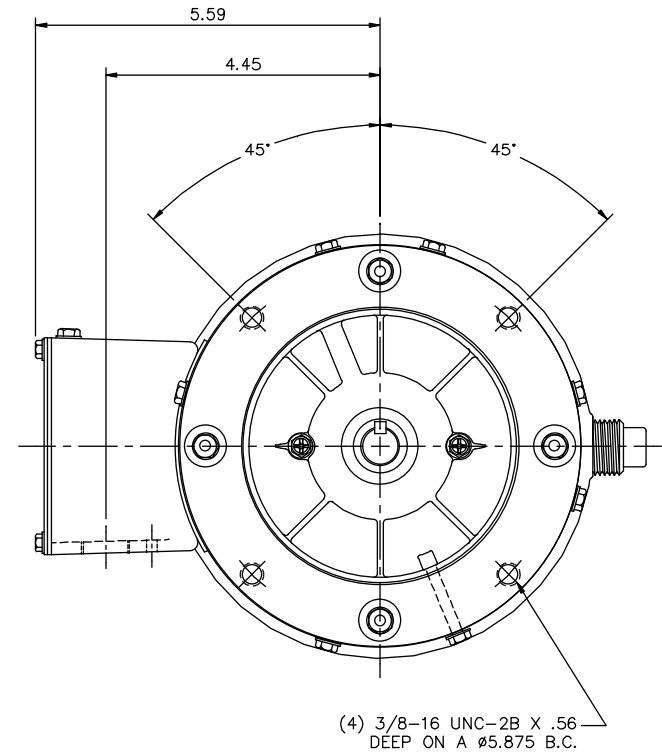
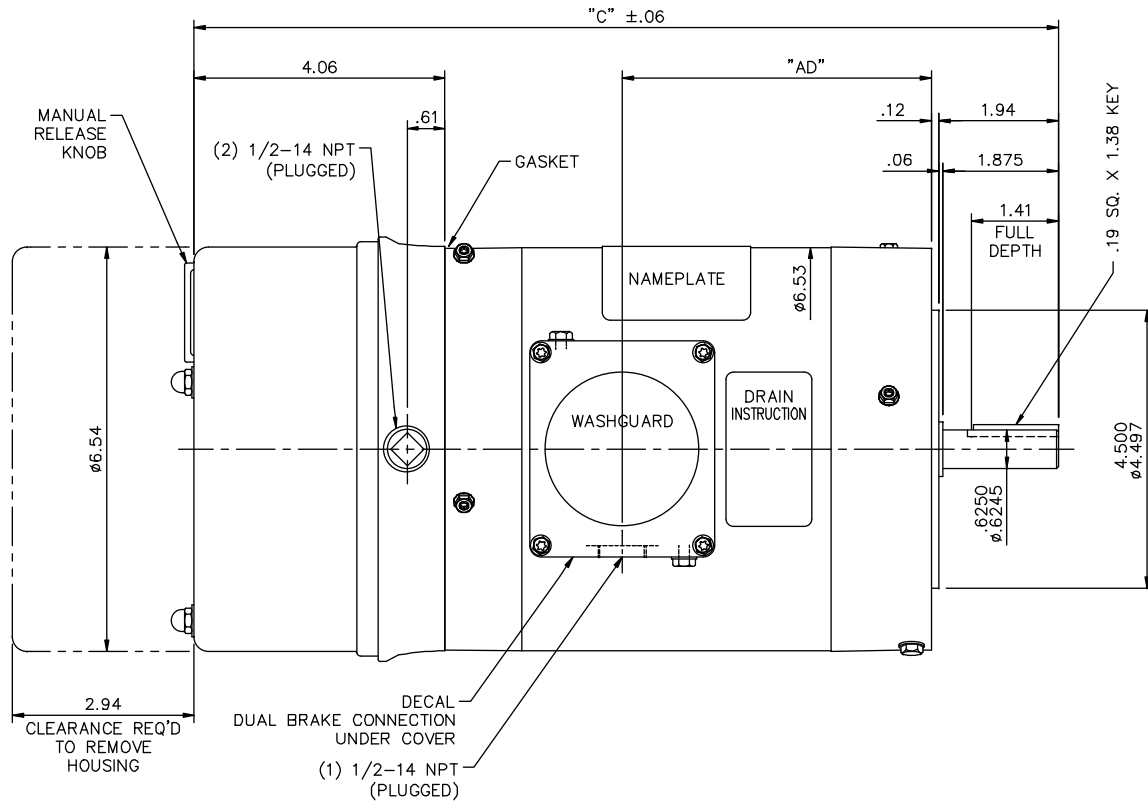


Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	2.0-1.8/0.90 A	Speed	1725 rpm
Service Factor	1.15	Phase	3
Efficiency	78.5 %	Power Factor	67
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Frame	56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	9.66 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	14.50 in
Frame Length	5.50 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.15	Outline Drawing	028577-550



DASH NO.	"C"	"AD"
500	14.00	5.01
550	14.50	5.51
600	15.00	6.01
650	15.50	6.51

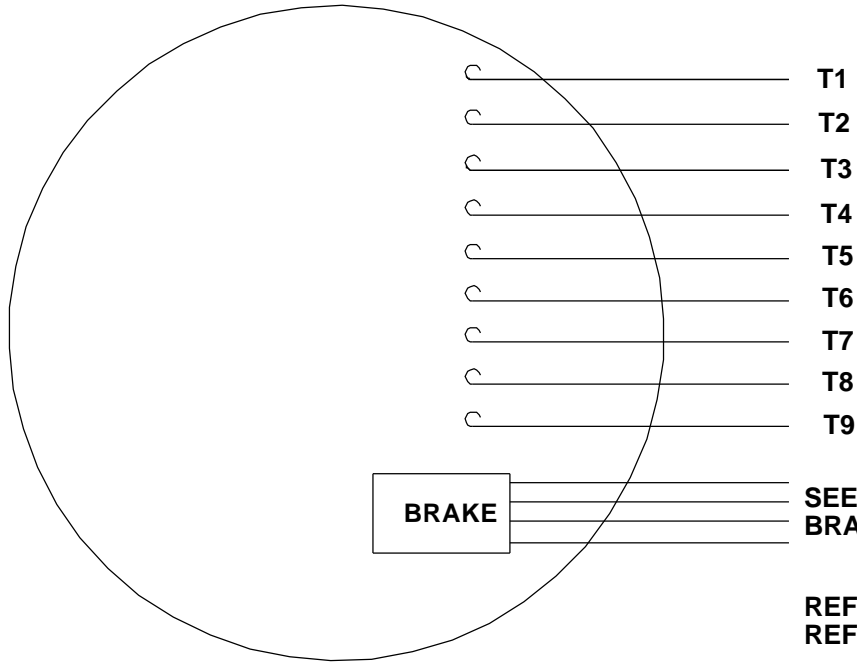
MAXIMUM FACE RUNOUT TO BE .004 TIR
 MAXIMUM PILOT ECCENTRICITY .004 TIR
 PERMISSIBLE SHAFT RUNOUT .002 TIR

WASHGUARD FEATURES:

- 1) SHAFT SEAL & V-RING
- 2) DRAIN HOLES IN ENDBELLS & CONDUIT BOX
- 3) STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE
- 4) GASKETS THROUGHOUT

NO.	REVISION	BY & DATE	CHK	ANG	FINISH	TOLERANCES UNLESS SPECIFIED		MATERIAL	TITLE	DRAWN	LST	REV.	
						DEC.	INCHES						
03	ADDED DRAIN SCREWS TO ALL HOLES ECR-0034519	ARV 7/30/13	SK	.X	±.1						1/19/04		
02	NOTE WAS (1) 1/2-14 NPT (PLUGGED) FOR BRAKE	ARV 5/30/09		.XX	±.03					CHK	RW	1/19/04	
01	REV'D DRAIN HOLE SCREW LOC'NS IN L.E ENDBELL TO MATCH ENDBELL MACHINING	BJB 03/18/04		.XXX	±.005					APPD	KH	1/19/04	
				.XXXX	±.0005					SCALE	1=2		
										REF	028575		
										FMF			
										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	028577	SIZE	DRAWING NO.		REV.	
						DIST			B	028577		03	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

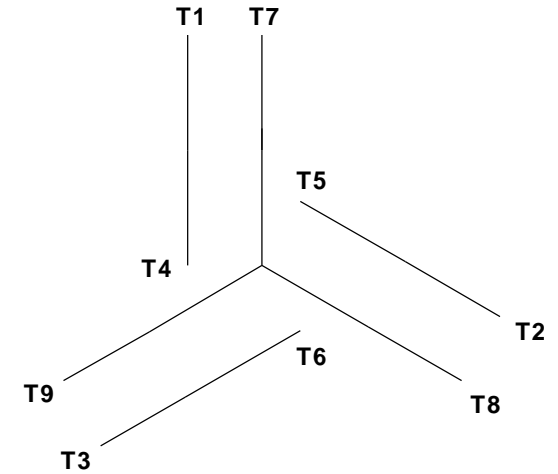


CAUTION:
LEAD WIRE INSULATION TO EXTEND
MINIMUM OF 1/4" INTO CONNECTOR
INSULATION

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	BRAKE CONNECTION					
	STEARNS BRAKE			DINGS BRAKE		
	L1	L2	Join	L1	L2	Join
HIGH	1(RED)	2(RED)	3(BLACK) 4(BLACK)	2(BLACK)	4(YELLOW)	1(YELLOW) 3(BLACK)
LOW	1(RED) 3(BLACK)	2(RED) 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	--



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

CERTIFICATION DATA SHEET

CATALOG #: 116463.00

CONN. DIAGRAM: 005010.15

OUTLINE: 028577-550

MOUNTING: F1 ONLY

WINDING #: T634208 NR 3 A

TYPICAL MOTOR PERFORMANCE DATA

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

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	208-230/460	2.0-1.8/.9	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	78.5	3/4 LOAD EFF:	75.8	1/2 LOAD EFF:	70.9	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	67	3/4 LOAD PF:	55.9	1/2 LOAD PF:	44.1	0		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24 OZ-FT	12.2 / 6.1	72.1 OZ-FT 300 %	97.8 OZ-FT 408 %	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.06 LB-FT^2	0.1 LB-FT^2	0 SEC.	0	0 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	ROUND	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	303 STAINLESS (C-501)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*
N
O
T
E
S

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: REGAL SUPPLIED AND MOUNT NONE
STEARNS P/N 004225.81
56,000 NEMA 4X
3 FT-LB 230/460-190/380 V 60/50 Hz

Data Sheet

Date: 1/24/2018

116463.00



Data @ **460 V**

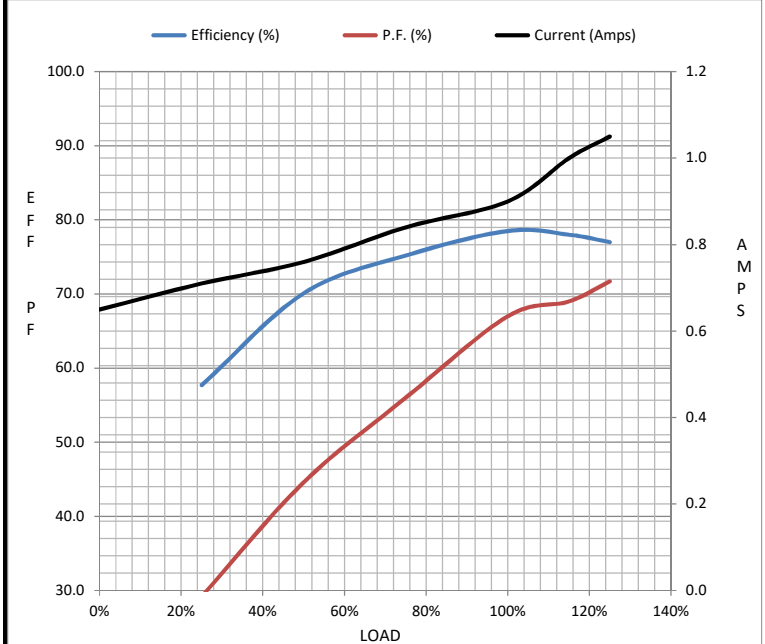
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.65	0.71	0.76	0.84	0.90	1.00	1.05	12.2
Torque (ft-lb)	0.00	96.0	192	288	384	448	480	1,153
RPM	1800	1788	1776	1764	1750	1,740	1735	0
Efficiency (%)		57.7	70.1	75.2	78.5	77.0		
P.F. (%)	13.1	29.2	44.6	56.0	67.0	69.0	71.7	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	300	1310	1750	1800
Current (Amps)	12.2	5.7	4.5	0.90	0.65
Torque (ft-lb)	1,153	1,142	1,564	384	0.00

Information Block				
HP	0.5			
Sync. RPM	1800			
Frame	140			
Enclosure	TENV			
Construction	TTR			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.06 Lb-Ft ²			
Ref Wdg	T634208 NR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	028577-550			
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

