

PRODUCT INFORMATION PACKET



Model No: 120102.00

Catalog No: 120102.00

General Purpose Motor, 2 HP, 1 Ph, 60 Hz, 115/230 V, 3600 RPM, 145TC Frame, TEFC

Operational at 115/208-230 V @60HZ



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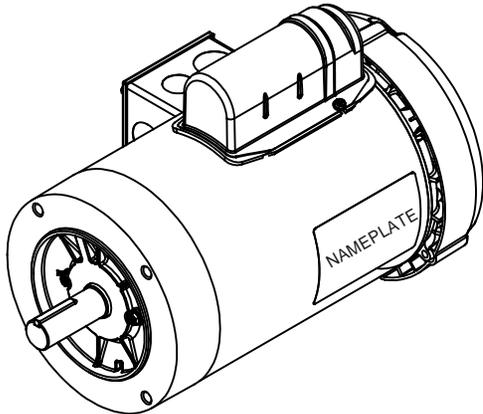
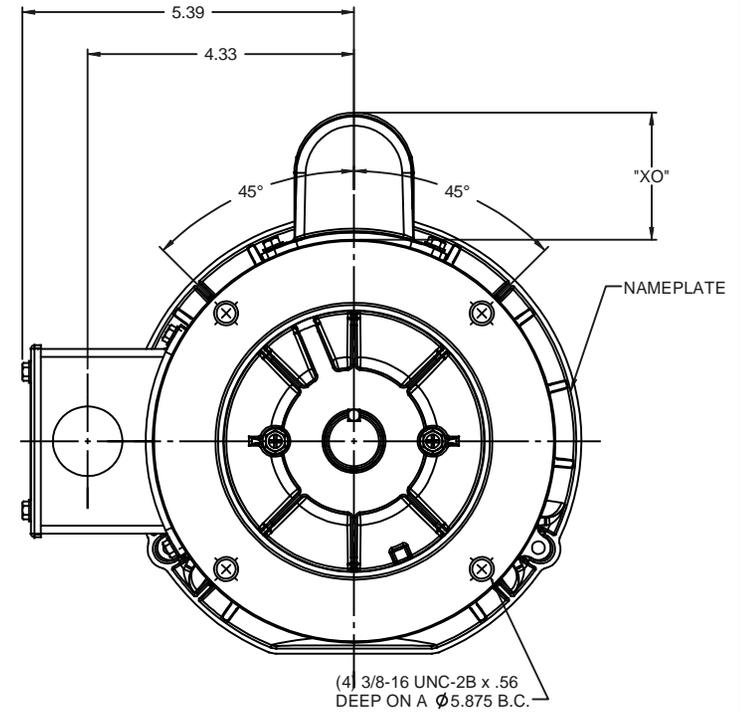
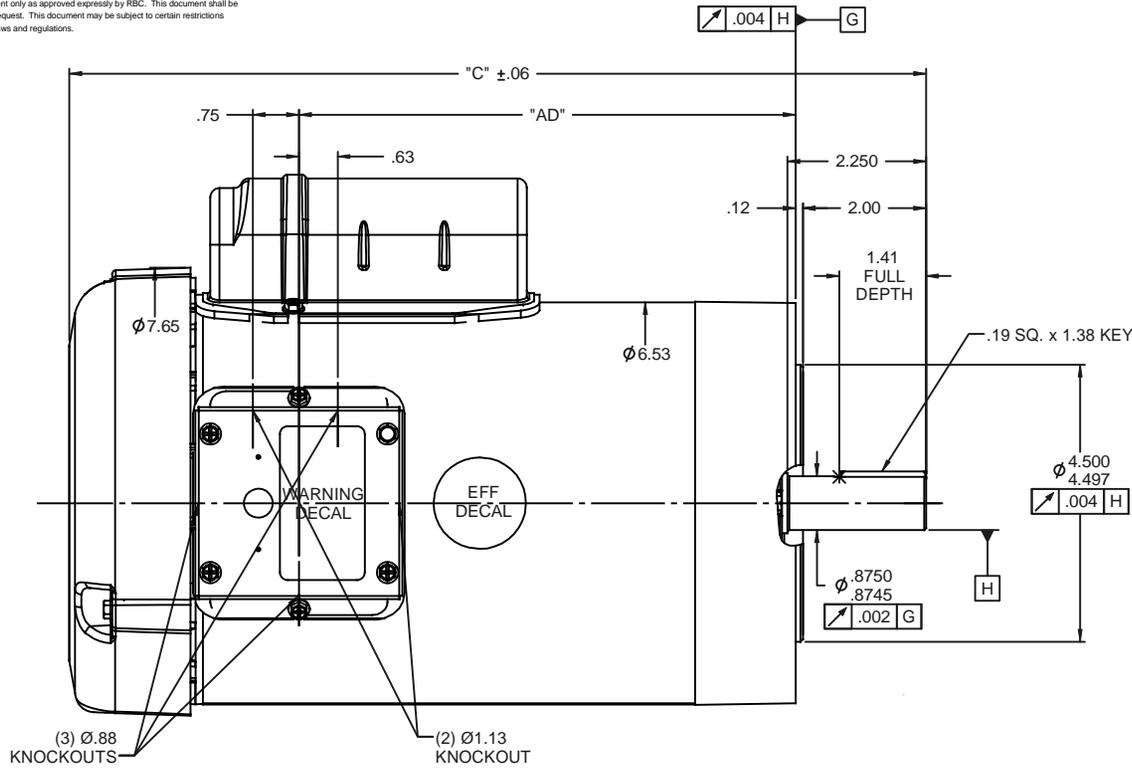
Nameplate Specifications

Phase	1	Output HP	2 Hp
Output KW	1.5 kW	Voltage	115/230 V
Speed	3450 rpm	Service Factor	1.0
Frame	145TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	73 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	20.0/10.0 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	L	KVA Code	J
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	.92 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	13.92 in
Frame Length	8.00 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005062.01	Outline Drawing	028858-800B

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DASH NO.	"C"	"AD"	CAP.	"XO"
650	12.42	6.57	DASH	
700	12.92	7.07	A	1.54
750	13.42	7.57	B	2.01
800	13.92	8.07	C	2.25
850	14.42	8.57		

NOTES:
GASKETS THROUGHOUT

REVISION		BY & DATE	CHK	ANG	FINISH	PAGE	
THIRD ANGLE PROJECTION			RFP	07/28/2008	PREV	SIZE	DRAWING NO
						B	028858
							REV

TOLERANCES UNLESS SPECIFIED	DEC	INCHES	TITLE	SCALE
X	±.1		OUTLINE - 140TC FRAME	1:2
.XX	±.03		TEFC - "C" FACE	REF 028854
.XXX	±.005		MATL GENERAL PURPOSE	FMF 120102.00
.XXX	±.0005			

DRAWN	GRB	07/28/2008
CHK	DJ	07/28/2008
APPR		



**ELECTRIC MOTORS
GEARMOTORS
AND DRIVES**

DRAWN GRB 07/28/2008

CHK DJ 07/28/2008

APPR

SCALE 1:2

REF 028854

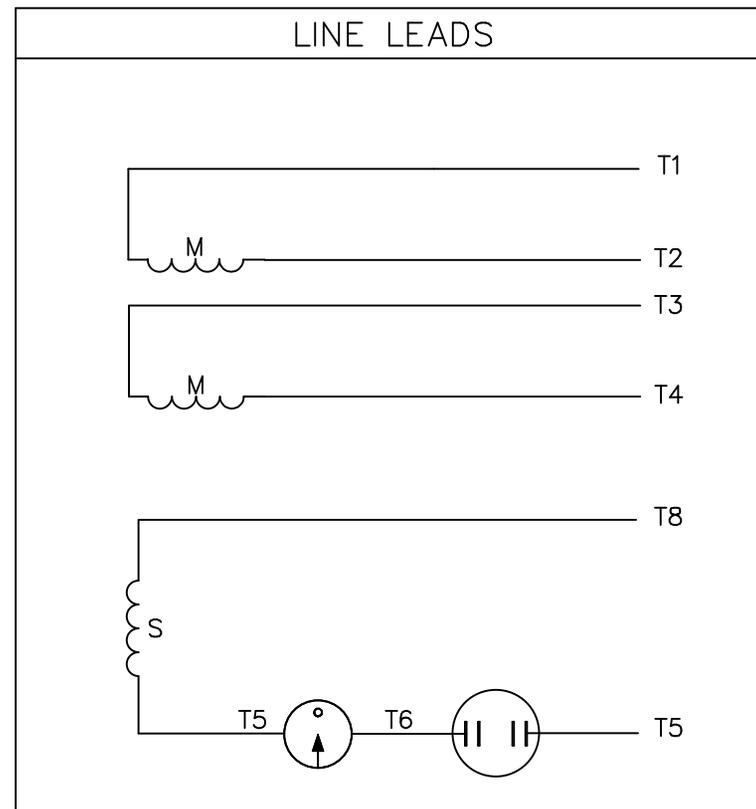
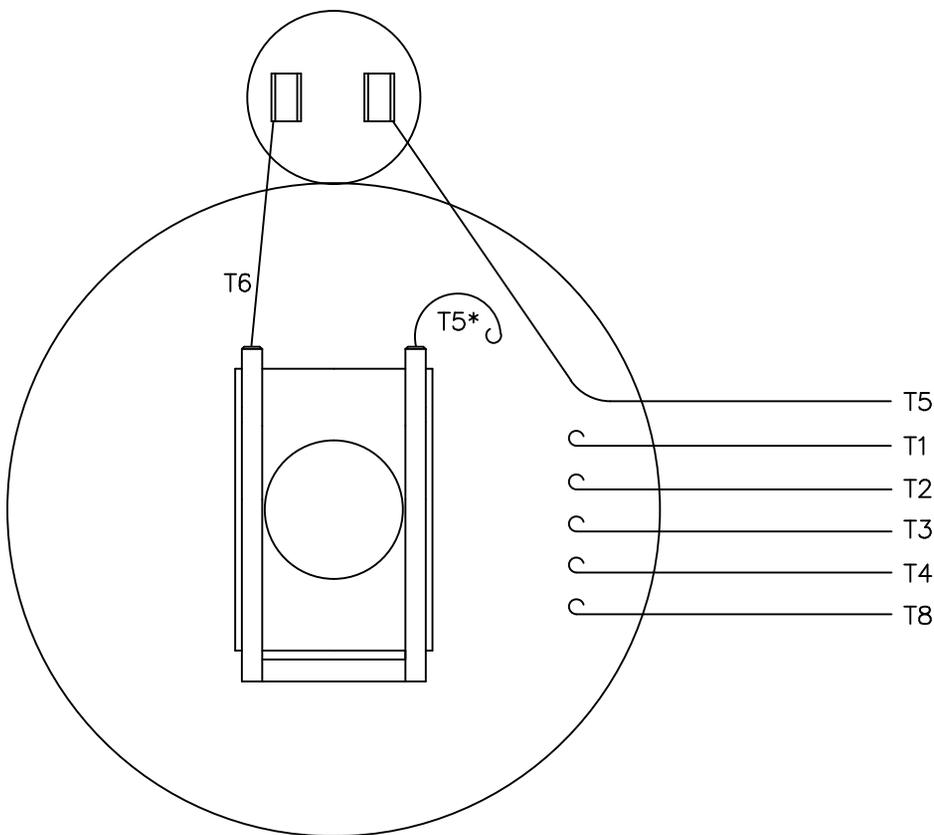
FMF 120102.00

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SIZE B DRAWING NO

028858 REV

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

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED	
				DEC.	INCHES
				.X	±.1
12	ALTERNATE T5 LEAD MARKING WAS RED	RLW 8/6/02	.XX	±.01	
11	ADDED ALTERNATE T5 LEAD MARKING	RLW 5/31/02	KH	.XXX	±.005
10	UPDATED TO CURRENT STANDARDS	DBT 06/09/97		.XXXX	±.0005
				ANG	±1/2°



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN	JRW 12/05/74
CHK	
APPD	T.E.M.
SCALE	1=1
REF	A-005061
FMF	
PREV	

TITLE	EXT. WIRING DIAGRAM TYPE "C" W/O PROTECTOR
MAT'L.	DECAL - 004012
FINISH	

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	DIST	NLV		A	005062-01	12



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

CERTIFICATION DATA SHEET

CATALOG #: 120102.00

CONN. DIAGRAM: 005062.01

OUTLINE: 028858-800B

MOUNTING: F1 ONLY

WINDING #: C632213 FR 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	3600	3450	145TC	TEFC	J	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	20/11.4-10	ACROSS THE LINE	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	73	3/4 LOAD EFF:	72.9	1/2 LOAD EFF:	71	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	87	3/4 LOAD PF:	81.7	1/2 LOAD PF:	71.8	68	CAP START IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	128.8 / 64.4	7.5 LB-FT 250 %	7.8 LB-FT 260 %	90

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.09 LB-FT^2	0 LB-FT^2	0 SEC.	0	46 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
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: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE HZ

