

PRODUCT INFORMATION PACKET



Model No: LM20038
Catalog No: LM20038
60 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 364TC Frame, TEFC
Special Voltage Motors



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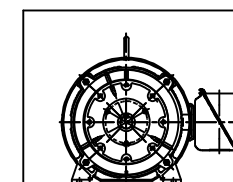
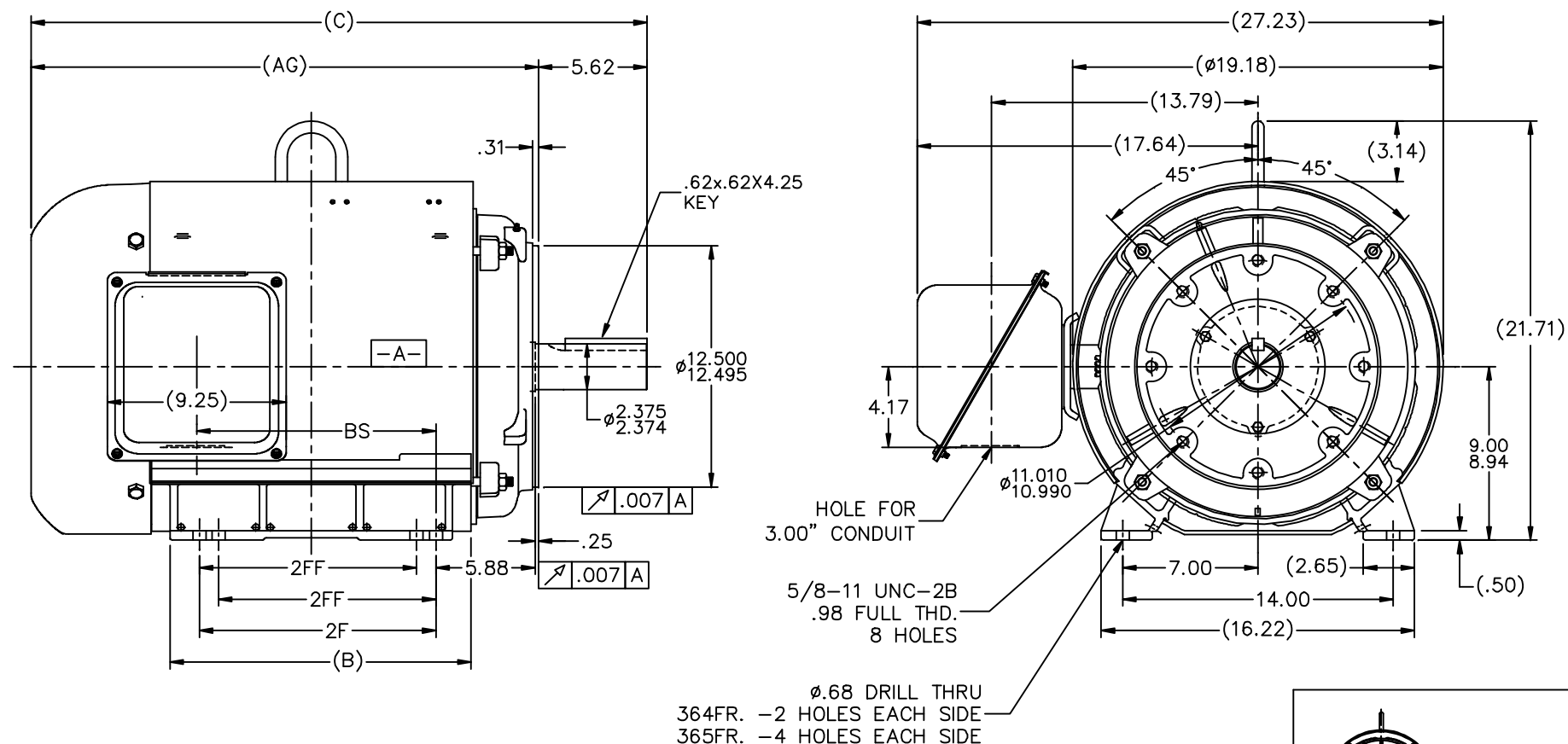
Nameplate Specifications

Output HP	60 Hp	Output KW	44.8 kW
Frequency	60 Hz	Voltage	575 V
Current	58.0 A	Speed	1782 rpm
Service Factor	1.25	Phase	3
Efficiency	95 %	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	364TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	313	Opp Drive End Bearing Size	311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

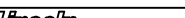
Technical Specifications

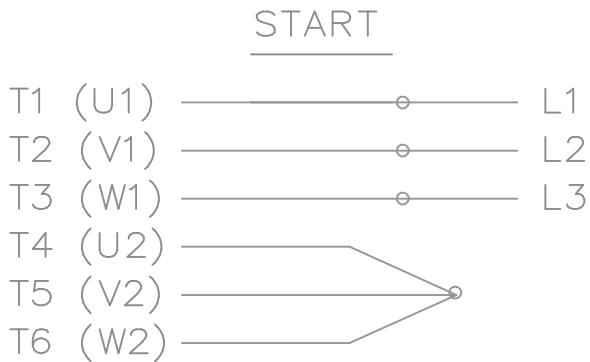
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0706 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	31.89 in
Frame Length	17.32 in	Shaft Diameter	2.375 in
Shaft Extension	5.93 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7340-LN	Outline Drawing	XH2F1SC1-1670

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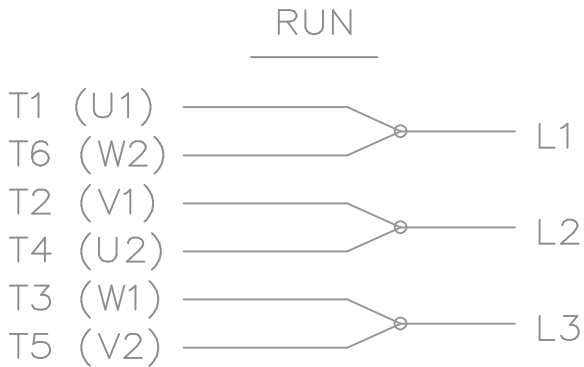
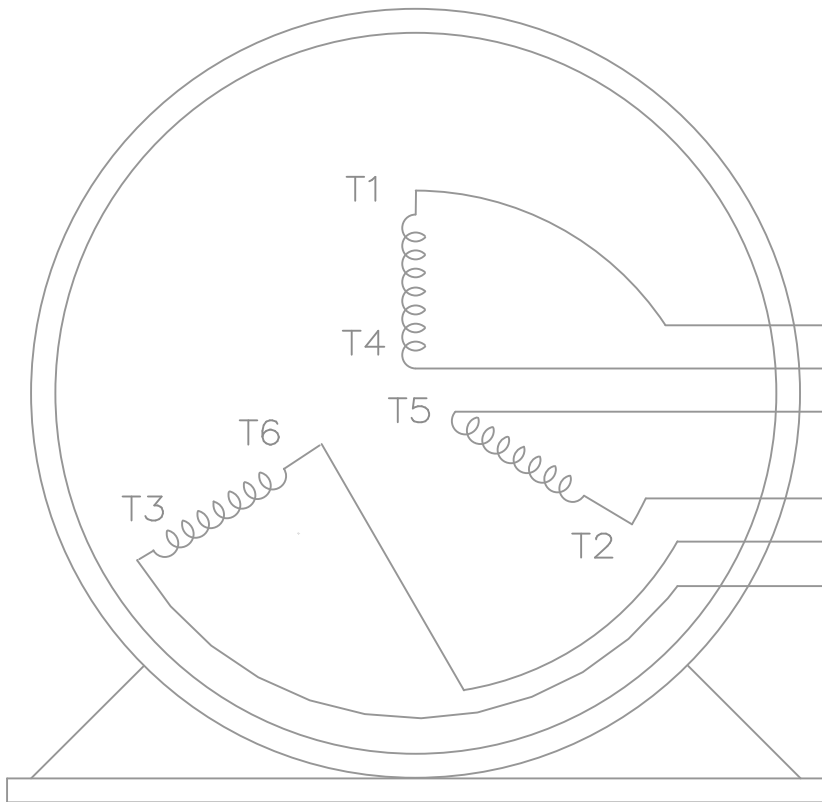


F2 VIEW

												TOLERANCES UNLESS SPECIFIED					DRAWN HLB 10-17-2002		
												DEC. INCHES					CHK ML 10-17-2002		
												X ±.1					APPD HNH 10-17-2002		
												XX ±.03			TITLE OUTLINE — NEMA MOTORS 360T FR. —TEFC —C' FACE —U.E. —1		SCALE 1=6		
												XXX ±.005					REF		
1670	364T	31.89	26.27	14.61	11.25	---	---	11.56	2	UPDATED PER ISAAC# 12-1833	REP 04-25-2012	TB	XXX	±.005			REF		
1770	365T	32.89	27.27	15.61	12.25	11.25		12.56	1	NEW DRAWING CN35344-12	HLB 10-17-2002	HNH	XXXX	±.0005	MAT'L	FMF			
									NO. REVISION		BY & DATE		CHK	ANG	±7'30"	FINISH	PREV		
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DASH	FRAME	C	AG	B	2F	2FF		BS					DIST	BY	B	XH2F1SC1	2		



THREE PHASE — Y START
 Δ RUN MOTOR



T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999		
			DEC.	INCHES		CHK DRS 10-04-1999		
			.X	±.1		APPD TB 10-04-1999		
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM 3Ø — WYE START DELTA RUN	SCALE 1=1	
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005		REF	
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005	MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±'30"	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 ee7340_In		SIZE	DRAWING NO.	PAGE OF
			DIST	WA-LB-SB		A	EE7340-LN	3



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XH2F1SC1-1670
WINDING: L3644012

CAT #: LM20038

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1800	1782	364TC	TEFC	TFR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	58	HYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF		ELECT. TYPE	
F.L. PF	81.5	3/4 LD PF	78.5	1/2 LD PF	72.0	94.1		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
177 LB-FT	348	325 LB-FT 184%	450 LB-FT 254%	70

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA		0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL						
313 311	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.081	0.067	0.569	0.946	17.885	0.150	ODE

* N O T E S *			INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE NONE PPR

DATE: 9/5/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
VOLTAGE: NONE		HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/5/2018

LM20038



Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	18.4	23.2	32.8	45.2	58.0	66.4	71.6	348	
Torque (ft-lb)	0.00	44.0	88.0	132	177	204	222	325	
RPM	1800	1795	1790	1787	1782	1,780	1775	0	
Efficiency (%)		91.0	94.5	95.4	95.0	95.0	94.5		
P.F. (%)	4.5	53.0	72.0	78.5	81.5	82.0	82.5	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	900	1700	1782	1800					
Current (Amps)	348	320	240	58.0	18.4					
Torque (ft-lb)	325	300	450	177	0.00					
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Information Block				
						HP		60.0		
						Sync. RPM		1800		
						Frame		364		
						Enclosure		TEFC		
						Construction		TFR		
						Voltage		575 V		
						Frequency		60 Hz		
						Design		B		
						LR Code letter		G		
						Service Factor		1.15		
						Temp Rise @ FL		70 ° C		
						Duty		CONT		
						Ambient		40 ° C		
						Elevation		1,000 feet		
						Rotor/Shaft wk ²		0.00 Lb-Ft ²		
						Ref Wdg		L3644012 NONE		
Sound Pressure @ 1M		999 dBA								
VFD Rating		NONE								
Outline Dwg		XH2F1SC1-1670								
Conn. Diag		A-EE7340-LN								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.0810		0.0670		0.5690		0.9460		17.8850		

Speed - Torque Curve

