

PRODUCT INFORMATION PACKET

Model No: LM21220

Catalog No: LM21220

Speed Ratio Motors, TEFC, 60 HP, 3 Ph, 60 Hz, 230/460 V, 1782 RPM, 364T Frame



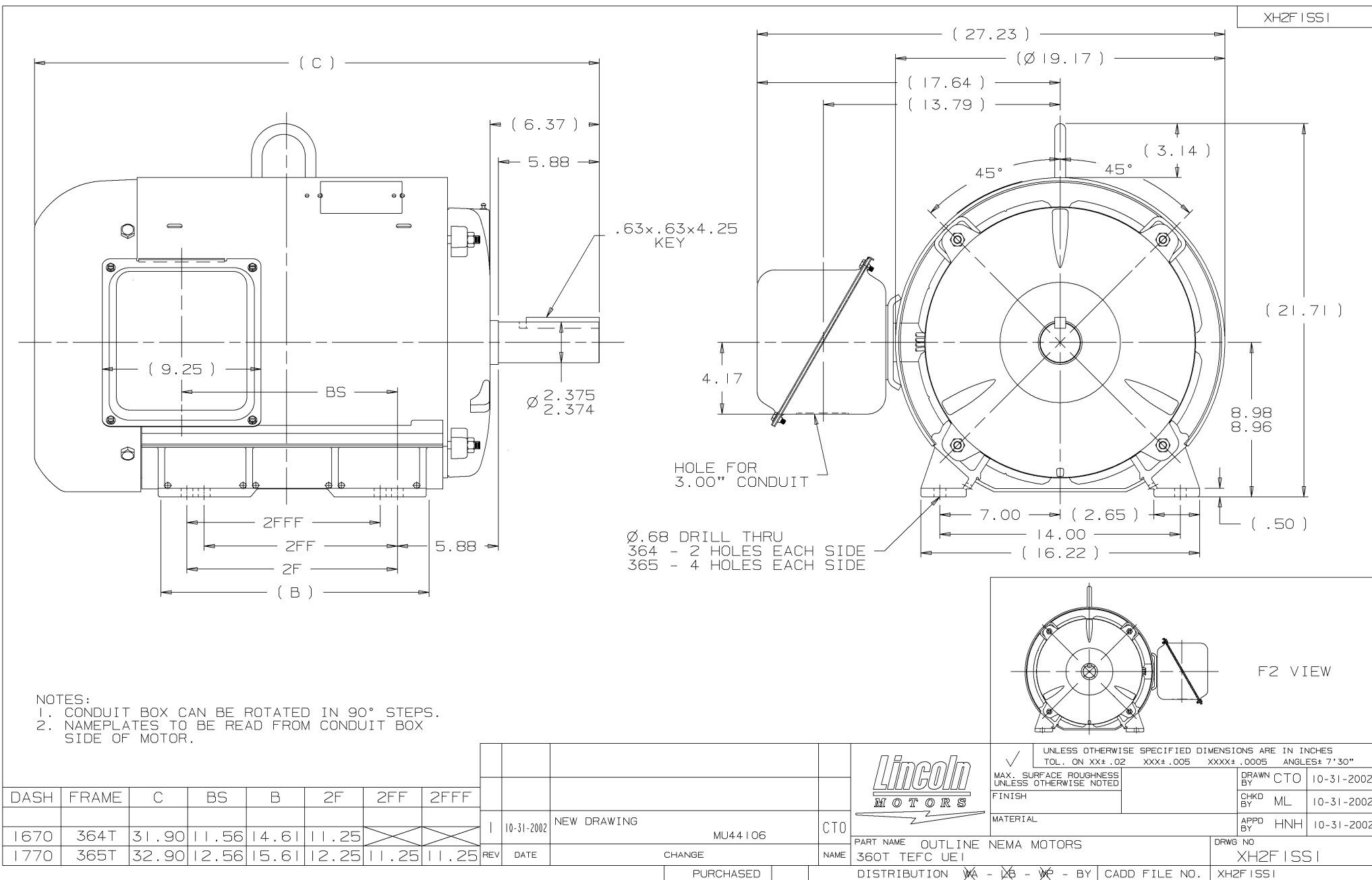
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Nameplate Specifications

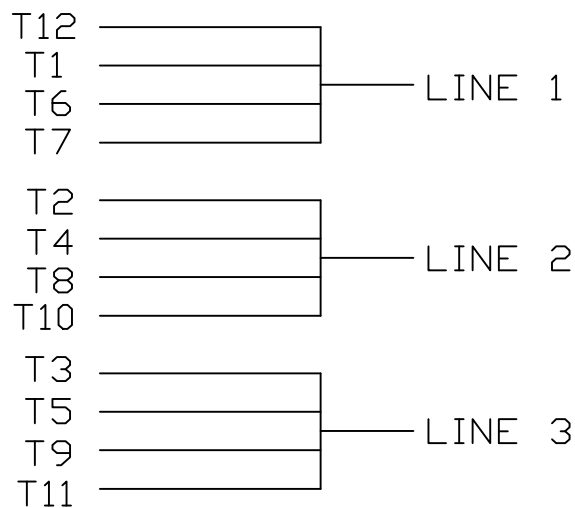
Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	145.0/72.5 A	Speed	1782 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	G
Frame	364T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	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

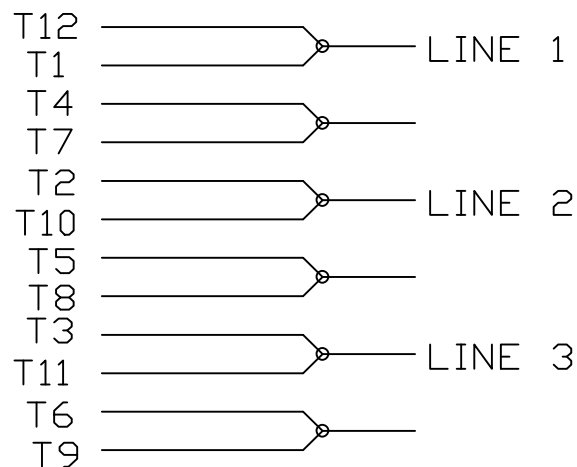
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.106 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	31.90 in
Frame Length	16.70 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 4:1		
Outline Drawing	XH2F1SS1-1670	Connection Drawing	A-EE7308BZ-LN



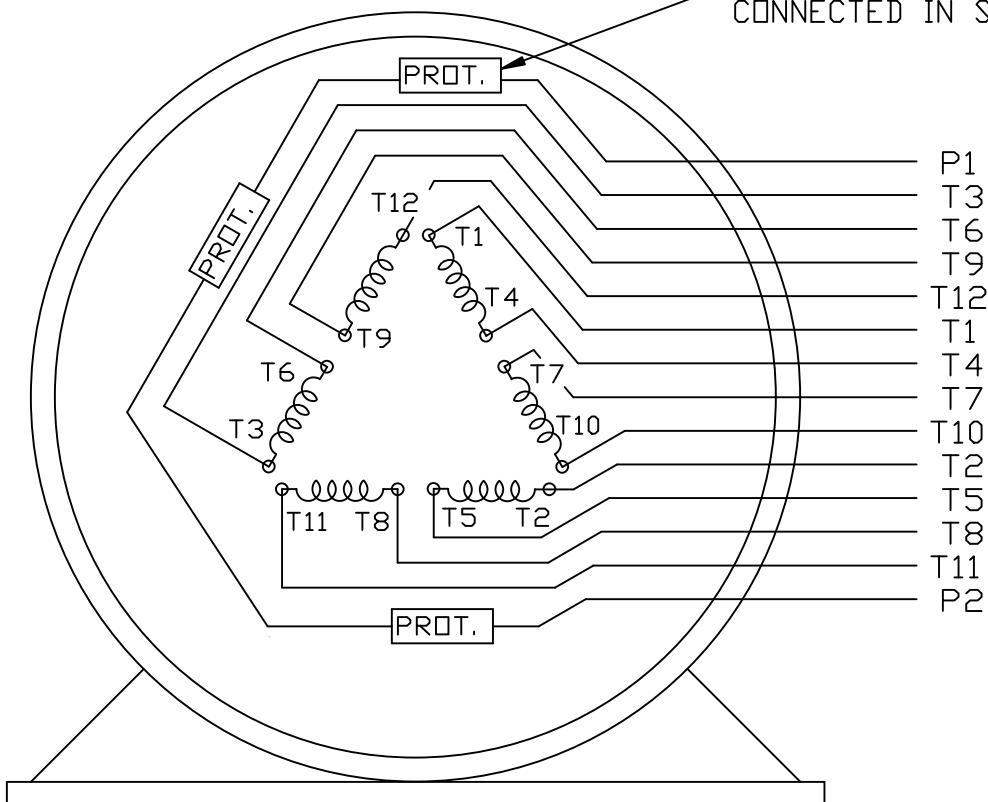
LOW VOLTAGE



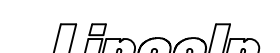
HIGH VOLTAGE



THERMO - PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

				<div></div>	✓ <div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± XXX± XXXX± ANGLES±</div>							
2	08/17/2011	REMOVED NOTE '12 LEADS SINGLE VOLTAGE'	MU103768		RFH	MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED			DRAWN BY	KL	12-11-2000	
						FINISH			CHKD BY	DJK	12-11-2000	
1	12-11-2000	NEW DRAWING	MU34925		KL	MATERIAL				APPD BY	DJK	12-11-2000
REV	DATE	CHANGE	NAME	PART NAME EXTERNAL CONNECTION DIAGRAM 3 PHASE - 2/1 DELTA - 12 LEADS							DRWG NO A- EE7308BZ-LN	
					PURCHASED		CADD FILE NO.		EE7308BZ-LN			



CERTIFICATION DATA SHEET

2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CONN. DIAGRAM: A-EE7308BZ-LN

OUTLINE: XH2F1SS1-1670

CATALOG #: LM21220

WINDING #: C3644010 R1 1

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60	45.0	1800	1782	364T	TEFC	G	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	145/72.5	INVERTER ONLY	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	93.6	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	82.5	3/4 LOAD PF:	78.5	1/2 LOAD PF:	69.5	92.4	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	870 / 435	340 LB-FT 192 %	425 LB-FT 240 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- 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	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 4:1
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

Data Sheet

Date: 1/19/2018

LM21220



Data @ 460 V

Motor Load Data

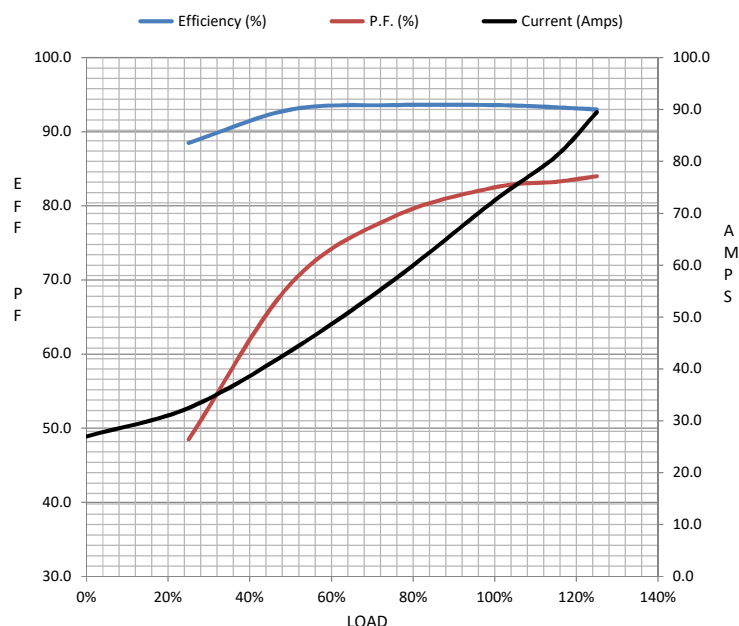
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	27.0	32.5	43.5	57.0	72.5	81.0	89.5	435	
Torque (ft-lb)	0.00	44.0	88.0	132	177	200	222	340	
RPM	1800	1795	1790	1787	1782	1.779	1775	0	
Efficiency (%)		88.5	93.0	93.6	93.6	93.3	93.0		
P.F. (%)	5.5	48.5	69.5	78.5	82.5	83.3	84.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1782	1800
Current (Amps)	435	425	305	72.5	27.0
Torque (ft-lb)	340	300	425	177	0.00

Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.0			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	C3644010 R1			
Sound Pressure @ 1M	999 dBA			
VFD Rating	CONSTANT 4:1			
Outline Dwg	XH2F1SS1-1670			
Conn. Diag	A-EE7308BZ-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0760	0.0380	0.3690	0.5630	9.8860



Speed - Torque Curve

