

PRODUCT INFORMATION PACKET



Model No: LM32686
Catalog No: LM32686
General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
324TS Frame, TEFC



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Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1483 rpm	Service Factor	1.25 & 1.15
Frame	324TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	101/50.5 & 90/45 A	Power Factor	79.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
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	.118 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	27.00 in
Frame Length	15.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XG2F1SS2-1550	Connection Drawing	3A217-15



1051 CHEYENNE AVE.
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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 3A217-15

CAT #: LM32686

OUTLINE: XG2F1SS2-1550

WINDING: L3244043

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1800	1780	324TS	TEFC	TFR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	101/50.5&90/45	HYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.0	GTD EFF		ELECT. TYPE	
F.L. PF	79.5	3/4 LD PF	75.0	1/2 LD PF	65.0	93.0		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
118 LB-FT	270	215 LB-FT 182%	250 LB-FT 212%	45

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
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6311 6309						

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
0.085	0.057	0.546	1.028	13.258	0.150	ODE

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

DATE: 9/11/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/11/2018

LM32686



Data @ 460 V

Motor Load Data

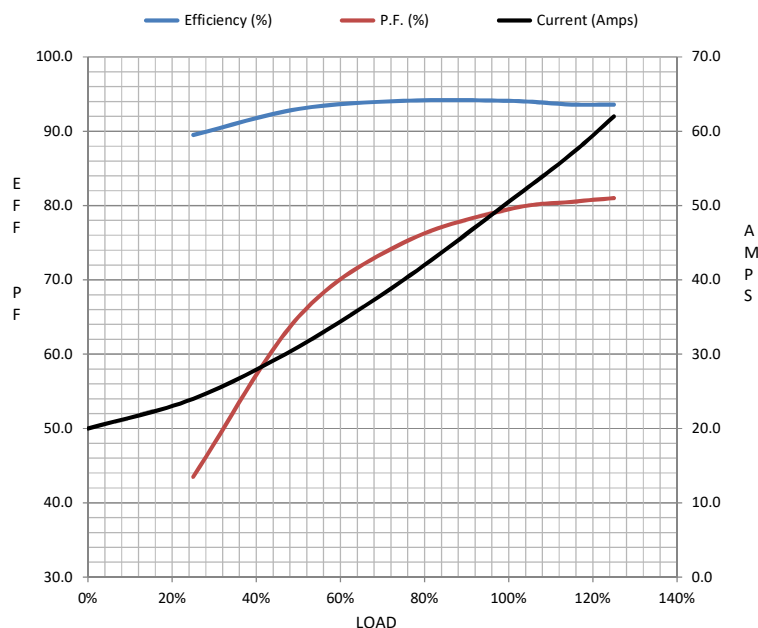
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	20.0	24.0	31.0	40.0	50.5	57.0	62.0	270	
Torque (ft-lb)	0.00	29.5	58.5	88.0	118	136	148	215	
RPM	1800	1795	1790	1785	1780	1,778	1775	0	
Efficiency (%)		89.5	93.0	94.1	94.1	93.6	93.6		
P.F. (%)	3.5	43.5	65.0	75.0	79.5	80.5	81.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1780	1800
Current (Amps)	270	243	148	50.5	20.0
Torque (ft-lb)	215	183	250	118	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L3244043	NONE		
Sound Pressure @ 1M	999	dBa		
VFD Rating	NONE			
Outline Dwg	XG2F1SS2-1550			
Conn. Diag	3A217-15			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0850	0.0570	0.5460	1.0280	13.2580



Speed - Torque Curve

