

PRODUCT INFORMATION PACKET



Model No: LM32813

Catalog No: LM32813

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
286T Frame, TEFC



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Nameplate Specifications


Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3525 & 2925 rpm	Service Factor	1.25 & 1.15
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 90 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	66/33 & 51/25.5 A	Power Factor	92
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	312	Opp Drive End Bearing Size	209
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	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	28.12 in
Frame Length	15.25 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XF5F1SS1-1525	Connection Drawing	3A217-15



DRAWING REVISION E	REVISION BY KR	REV DATE/© DATE 10/27/2022
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REQUEST NUMBER DESCRIPTION		
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DRAWN BY		TJB	
DATE		09-05-2001	
APPROVED BY		JMM	
DATE		09-05-2001	
REFERENCE			
THIRD ANGLE			
PROJECTION			

		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE 280T FR. - TEFC - UE	
MATERIAL		PROCESS/FINISH	
SIZE B	DRAWING NUMBER XF5F1SS1		SHEET 1 OF 1



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 3A217-15
OUTLINE: XF5F1SS1-1525
WINDING #: L2862012 1

CATALOG : LM32813

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3525&2925	286T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	66/33&51/25.5	WYE START DELTA RUN	CONTINUOUS	F3	1.25/1.15	40

FULL LOAD EFF:	92.4&90	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93.4	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	92&91	3/4 LOAD PF:	91.1	1/2 LOAD PF:	87	90.9	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.6 LB-FT	434 / 217	95.5 LB-FT 214 %	136 LB-FT 305 %	70

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.	-	0 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 (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
312	209						
		POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

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

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB V NONE Hz

Data Sheet

Date: 1/31/2018

LM32813



Data @ 460 V

Motor Load Data

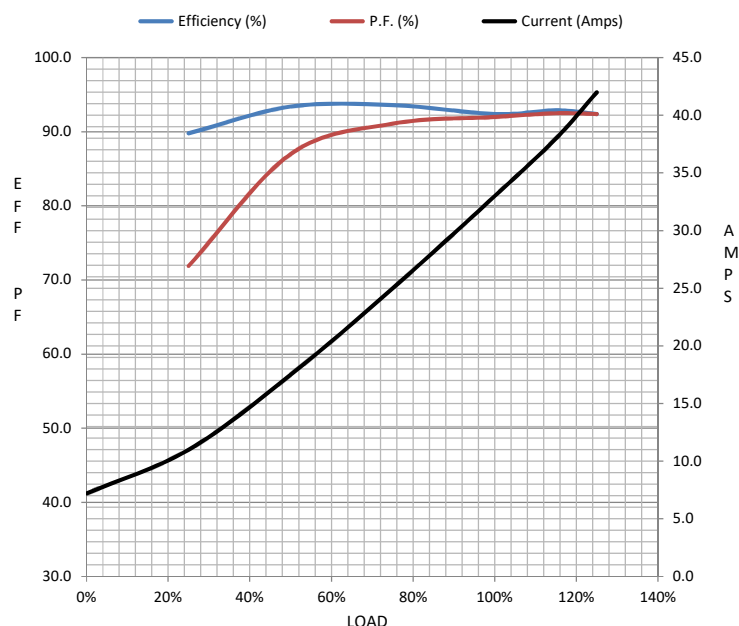
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.2	11.0	17.5	25.0	33.0	38.0	42.0	217	
Torque (ft-lb)	0.00	11.0	22.1	33.4	44.6	51.5	56.2	95.5	
RPM	3600	3583	3566	3546	3525	3515	3505	0	
Efficiency (%)		89.8	93.4	93.6	92.4	92.9	92.4		
P.F. (%)	8.0	71.9	87.0	91.1	92.0	92.5	92.4	37.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1763	3100	3525	3600
Current (Amps)	217	195	138	33.0	7.2
Torque (ft-lb)	95.5	81.2	136	44.6	0.00

Information Block

HP	30.0			
Sync. RPM	3600			
Frame	286			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L2862012	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XF5F1SS1-1525			
Conn. Diag	3A217-15			
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

