



Customer information packet

VJPFPM2515T-5

20HP, 1755RPM, 3PH, 60HZ, 256JP, 3936M, OPSB, F

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256JP
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	19.600 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	19.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F

Part detail

Revision	N
Type	AC
Mech. spec.	39N092
Base	
Status	PRD/A
Elec. spec.	39WGX987
Layout	39LYN092
Eff. date	06-26-2024
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	07-22-2016

Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.07 IN
Power Factor	83
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L

CAT.NO.	VJPFPM2515T-5				CUST P/N				I.P.				23			
SPEC.	39N092X987H2				SER.NO.				FRAME				256JP			
HZ	60	HP	20		RPM	1755		HZ		HP			RPM			
VOLTS	575				CODE	F		VOLTS					CODE			
AMPS	19.6				DES	B		AMPS					DES			
EFF	91	SER.F.		1.15		PF	83		EFF				SER.F.		PF	
RATING	40C AMB-CONT				DE BRG				6309				GREASE		POLYREX EM	
BLANK					ODE BRG				6208				MTR. WT.		208	
					CLASS				F		PH	3				
					ENCL				OPSB		CC	010A				
HTR-VOLTS			HTR-AMPS				HTR-WATTS									

AC Induction Motor Performance Data

Record # 58294

Typical performance - not guaranteed values

Winding: 39WGX987-R001			Type: 3936M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		20	Full Load Torque		59.2 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		19.6	Breakdown Torque		177 LB-FT		
R.P.M.		1755	Pull-up Torque		73.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		105 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		109 A
Service Factor (S.F.)		1.15	No-load Current		7.71 A		
NEMA Nom. Eff.		91	Power Factor	83	Line-line Res. @ 25°C		0.916 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps				Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		35.6	
				Rotor inertia		1.57 LB-FT2	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	79	83	86	86	85
Efficiency	87.7	91.6	91.9	91.1	89.9	88.2	90.4
Speed	1790	1781	1770	1759	1746	1730	1751
Line amperes	8.98	11.8	15.5	19.6	24.4	29.6	22.5

ABB Motors and Mechanical Inc.

WINDING # 39WGX987

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1755 RPM 575 V 3936M

TORQUES (LB-FT): PO=177 PU=73.5 LR=105 LRA=109





