



Customer information packet

FPM2551TS-5

75HP, 1770RPM, 3PH, 60HZ, 365TS, 4272M, OPSB, F

Specifications

Enclosure	OPSB
Frame	365TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	69.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
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	69.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	E
Type	AC
Mech. spec.	42F98
Base	
Status	PRD/A
Elec. spec.	42WGX104
Layout	42LYF098
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	04
Leads	6#8
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.81 IN
Power Factor	86
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	FPM2551TS-5				CUST P/N				I.P.				23	
SPEC.	42F098X104H2				SER.NO.				FRAME				365TS	
HZ	60	HP	75		RPM	1770		HZ		HP			RPM	
VOLTS	575				CODE	F		VOLTS					CODE	
AMPS	69				DES	B		AMPS					DES	
EFF	94.1	SER.F.	1.15		PF	86		EFF				SER.F.		PF
RATING	40C AMB-CONT				DE BRG		6313		GREASE		POLYREX EM			
BLANK					ODE BRG		6311		MTR. WT.		573			
					CLASS		F		PH		3			
					ENCL		OPSB		CC		010A			
HTR-VOLTS			HTR-AMPS				HTR-WATTS							

AC Induction Motor Performance Data

Record # 58313

Typical performance - not guaranteed values

Winding: 42WGX104-R001			Type: 4272M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		75		Full Load Torque		222 LB-FT
Volts		575		Start Configuration		direct on line
Full Load Amps		69		Breakdown Torque		585 LB-FT
R.P.M.		1770		Pull-up Torque		301 LB-FT
Hz		60 Phase		Locked-rotor Torque		348 LB-FT
NEMA Design Code		B KVA Code		Starting Current		402 A
Service Factor (S.F.)		1.15		No-load Current		21.7 A
NEMA Nom. Eff.		94.1 Power Factor		Line-line Res. @ 25°C		0.141 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps				Temp. Rise @ S.F. Load		75°C
				Locked-rotor Power Factor		26.6
				Rotor inertia		9.59 LB-FT2

Load Characteristics 575 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	76	83	86	86	86	86
Efficiency	93	94.9	94.7	94.3	93.4	92	93.8
Speed	1794	1788	1780	1772	1763	1752	1767
Line amperes	27.1	38.7	53.1	69.3	87.2	107	80

ABB Motors and Mechanical Inc.

WINDING # 42WGX104

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1770 RPM 575 V 4272M

TORQUES (LB-FT): PO=585 PU=301 LR=348 LRA=402





