



Customer information packet

FPM2543TS-5

50HP, 1770RPM, 3PH, 60HZ, 326TS, 4064M, ODP, F1

Specifications

Enclosure	ODP
Frame	326TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	49.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	49.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	D
Type	AC
Mech. spec.	40H07
Base	
Status	PRD/A
Elec. spec.	40WGX357
Layout	40LYH007
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	04
Leads	6#8
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	No 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	4064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.69 IN
Power Factor	83
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.	FPM2543TS-5				CUST P/N				I.P.				23			
SPEC.	40H007X357H2				SER.NO.				FRAME				326TS			
HZ	60	HP	50		RPM	1770		HZ		HP			RPM			
VOLTS	575				CODE	F		VOLTS					CODE			
AMPS	49				DES	B		AMPS					DES			
EFF	93		SER.F.	1.15		PF	83		EFF				SER.F.		PF	
RATING	40C AMB-CONT				DE BRG				6312		GREASE				POLYREX EM	
BLANK					ODE BRG				6309		MTR. WT.				452	
					CLASS				F		PH		3			
					ENCL				ODP		CC		010A			
HTR-VOLTS			HTR-AMPS				HTR-WATTS									

AC Induction Motor Performance Data

Record # 58308

Typical performance - not guaranteed values

Winding: 40WGX357-R001				Type: 4064M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		50		Full Load Torque		149 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		49		Breakdown Torque		380 LB-FT	
R.P.M.		1770		Pull-up Torque		194 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		F	
Service Factor (S.F.)		1.15		Starting Current		279 A	
NEMA Nom. Eff.		93		Power Factor		83	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 575 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	78	83	84	84	84
Efficiency	90.4	93.6	94	93.5	92.9	91.8	93.3
Speed	1794	1787	1779	1771	1763	1752	1766
Line amperes	22	29.2	38.2	48.5	60.1	72.7	55.5

ABB Motors and Mechanical Inc.

WINDING # 40WGx357

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1770 RPM 575 V 4064M

TORQUES (LB-FT): PO=380 PU=194 LR=240 LRA=279





