

ABB BALDOR RELIANCE III

Customer information packet

FPM2550T-5

100HP, 3530RPM, 3PH, 60HZ, 365TS, 4260M, OPSB

Specifications

Enclosure	OPSB
Frame	365TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	90.000 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	90.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	G
Type	AC
Mech. spec.	42F98
Base	
Status	PRD/A
Elec. spec.	42WGX105
Layout	42LYF098
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4260M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.81 IN
Power Factor	89
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	3530 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.	FPM2550T-5				CUST P/N					I.P.	23		
SPEC.	42F098X105H2				SER.NO.					FRAME	365TS		
HZ	60	HP	100		RPM	3530	HZ		HP		RPM		
VOLTS	575			CODE	F		VOLTS				CODE		
AMPS	90			DES	B		AMPS				DES		
EFF	93	SER.F.	1.15		PF	89		EFF		SER.F.		PF	
RATING	40C AMB-CONT				DE BRG	6313		GREASE	POLYREX EM				
BLANK					ODE BRG	6311		MTR. WT.	525				
					CLASS	F	PH	3					
					ENCL	OPSB	CC	010A					
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 58315

Typical performance - not guaranteed values

Winding: 42WGX105-R001			Type: 4260M	Enclosure: OPSB	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		100	Full Load Torque		148 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		90	Breakdown Torque		505 LB-FT
R.P.M.		3530	Pull-up Torque		201 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	244 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	547 A
Service Factor (S.F.)		1.15	No-load Current		21.1 A
NEMA Nom. Eff.	93	Power Factor	89	Line-line Res. @ 25°C	0.0974 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load	56°C
S.F. Amps				Temp. Rise @ S.F. Load	68°C
				Locked-rotor Power Factor	20.9
				Rotor inertia	4.69 LB-FT2

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	83	87	89	88	87	88
Efficiency	91.9	94.1	93.9	93.2	92.1	90.6	92.5
Speed	3587	3572	3555	3536	3514	3490	3523
Line amperes	30.8	48.2	68.7	90.3	114	140	105

ABB Motors and Mechanical Inc.

WINDING # 42WGX105

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 3530 RPM 575 V 4260M

TORQUES (LB-FT): PO=505 PU=201 LR=244 LRA=547



