

ABB BALDOR RELIANCE III

Customer information packet

FPM2547TS-5

60HP, 1770RPM, 3PH, 60HZ, 364TS, 4252M, ODP, F1

Specifications

Enclosure	ODP
Frame	364TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 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	57.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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	57.0 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.	42WGX102
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	4252M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.81 IN
Power Factor	84
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.	FPM2547TS-5				CUST P/N								I.P.	23		
SPEC.	42F098X102H2				SER.NO.								FRAME	364TS		
HZ	60	HP	60	RPM		1770		HZ			HP			RPM		
VOLTS	575			CODE	F		VOLTS						CODE			
AMPS	57			DES	B		AMPS						DES			
EFF	93.6	SER.F.	1.15		PF	84		EFF				SER.F.			PF	
RATING	40C AMB-CONT				DE BRG		6313		GREASE		POLYREX EM					
BLANK					ODE BRG		6311		MTR. WT.		480					
					CLASS	F		PH	3							
					ENCL	ODP		CC	010A							
HTR-VOLTS	HTR-AMPS		HTR-WATTS													

AC Induction Motor Performance Data

Record # 58310

Typical performance - not guaranteed values

Winding: 42WGX102-R001			Type: 4252M	Enclosure: OPSB	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		60	Full Load Torque		178 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		57	Breakdown Torque		488 LB-FT
R.P.M.		1770	Pull-up Torque		221 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	297 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	323 A
Service Factor (S.F.)		1.15	No-load Current		21.1 A
NEMA Nom. Eff.	93.6	Power Factor	84	Line-line Res. @ 25°C	0.195 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		53°C
S.F. Amps			Temp. Rise @ S.F. Load		66°C
			Locked-rotor Power Factor		27.3
			Rotor inertia		6.93 LB-FT2

Load Characteristics 575 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	80	84	85	84	85
Efficiency	91.5	93.9	94	93.7	92.7	91.6	93.1
Speed	1794	1787	1781	1772	1764	1753	1767
Line amperes	24.9	33.4	44.7	57.3	71.1	87	65.6

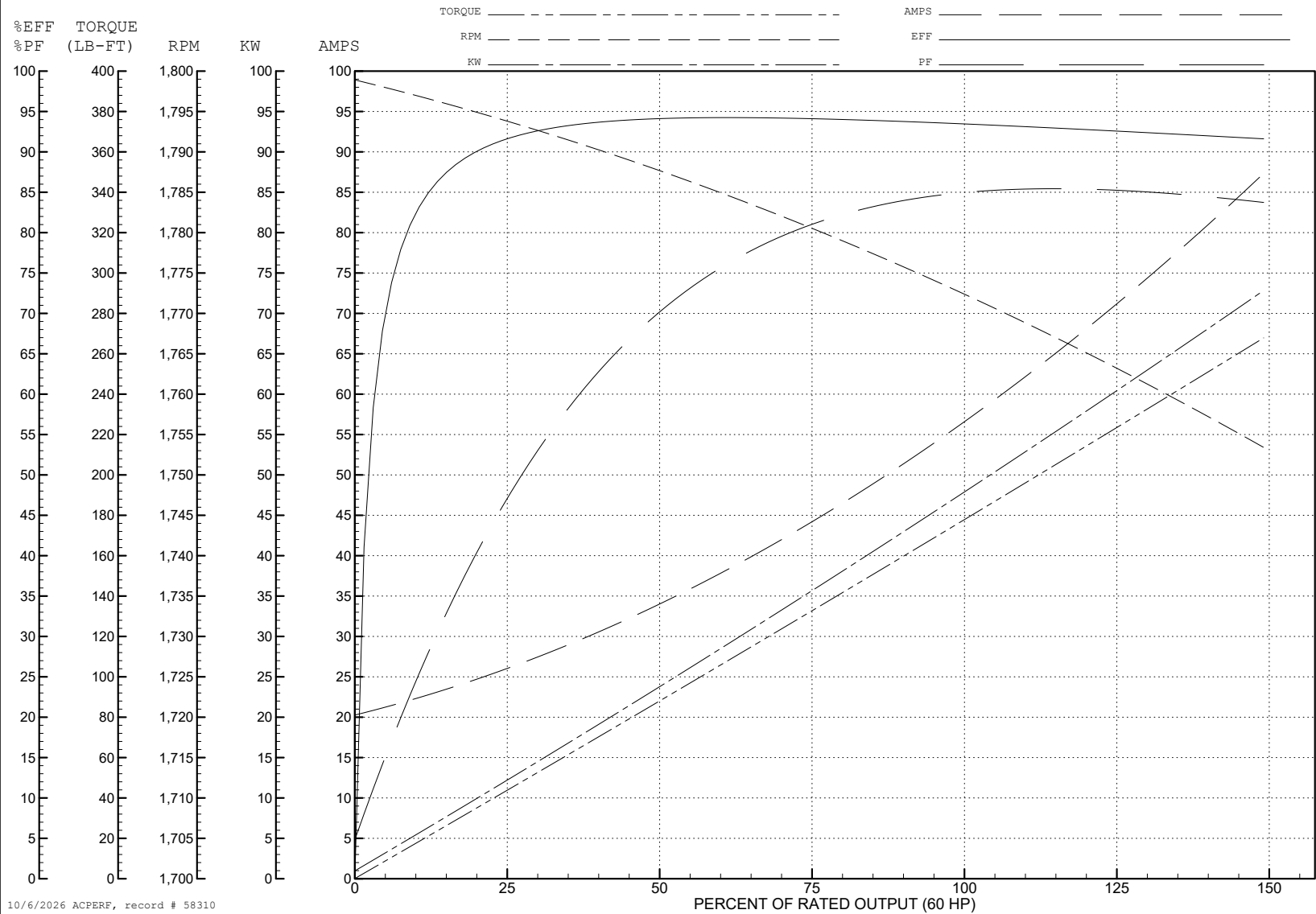
ABB Motors and Mechanical Inc.

WINDING # 42WGX102

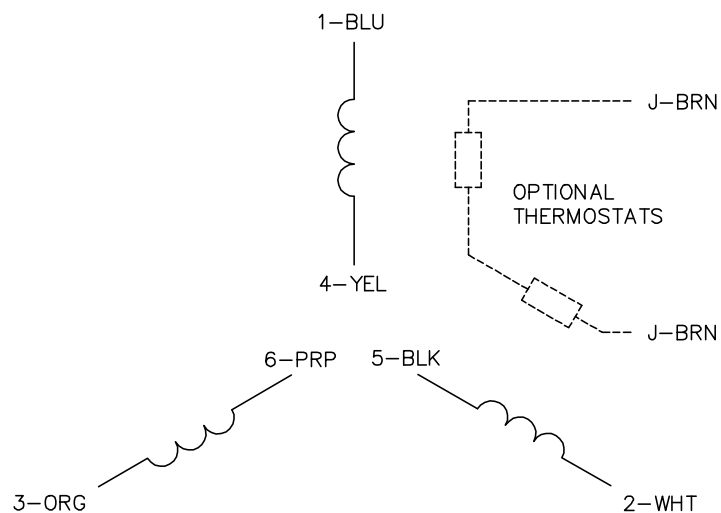
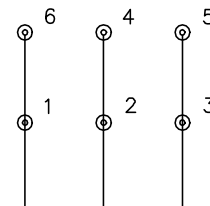
Typical performance - not guaranteed values.

60 HP 3 PH 60 HZ 1770 RPM 575 V 4252M

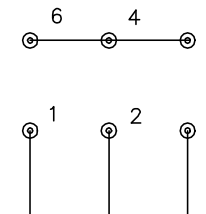
TORQUES (LB-FT): PO=488 PU=221 LR=297 LRA=323



CD0382


**RUN CONNECTION
(1D)**


LINE

**START CONNECTION
(1Y)**


LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
5. FOR ACROSS-THE-LINE STARTING, USE 'RUN' CONNECTION.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: F

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\243

REVISED: 09:05:32 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1

CD0382