

ABB BALDOR RELIANCE III

Customer information packet

FPM2535TS-5

30HP, 1770RPM, 3PH, 60HZ, 286TS, 4052M, ODP, F1

Specifications

Enclosure	ODP
Frame	286TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 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	29.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	29.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	G
Type	AC
Mech. spec.	40G49
Base	
Status	PRD/A
Elec. spec.	40WGX354
Layout	40LYG049
Eff. date	07-24-2023
CD Diagram	CD0382
Poles	04
Leads	6#10
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4052M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.69 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	1.625 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.	FPM2535TS-5				CUST P/N					I.P.	23		
SPEC.	40G049X354H2				SER.NO.					FRAME	286TS		
HZ	60	HP	30		RPM	1770		HZ		HP		RPM	
VOLTS	575			CODE	F			VOLTS				CODE	
AMPS	29			DES	B			AMPS				DES	
EFF	92.4	SER.F.	1.15		PF	84		EFF		SER.F.		PF	
RATING	40C AMB-CONT				DE BRG	6311		GREASE	POLYREX EM				
BLANK					ODE BRG	6309		MTR. WT.	420				
					CLASS	F		PH	3				
					ENCL	ODP		CC	010A				
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 58301

Typical performance - not guaranteed values

Winding: 40WGX354-R001			Type: 4052M		Enclosure: OPEN		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		89.5 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		29	Breakdown Torque		256 LB-FT		
R.P.M.		1770	Pull-up Torque		112 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		142 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		168 A
Service Factor (S.F.)		1.15	No-load Current		10.3 A		
NEMA Nom. Eff.		92.4	Power Factor	84	Line-line Res. @ 25°C		0.412 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		32°C	
S.F. Amps				Temp. Rise @ S.F. Load		40°C	
				Locked-rotor Power Factor		31.5	
				Rotor inertia		4.14 LB-FT2	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	72	80	84	85	85	85
Efficiency	90.5	93.3	93.9	93.5	92.9	91.9	93.2
Speed	1793	1787	1780	1773	1765	1756	1768
Line amperes	12.4	16.6	22.3	28.7	35.6	43.1	32.8

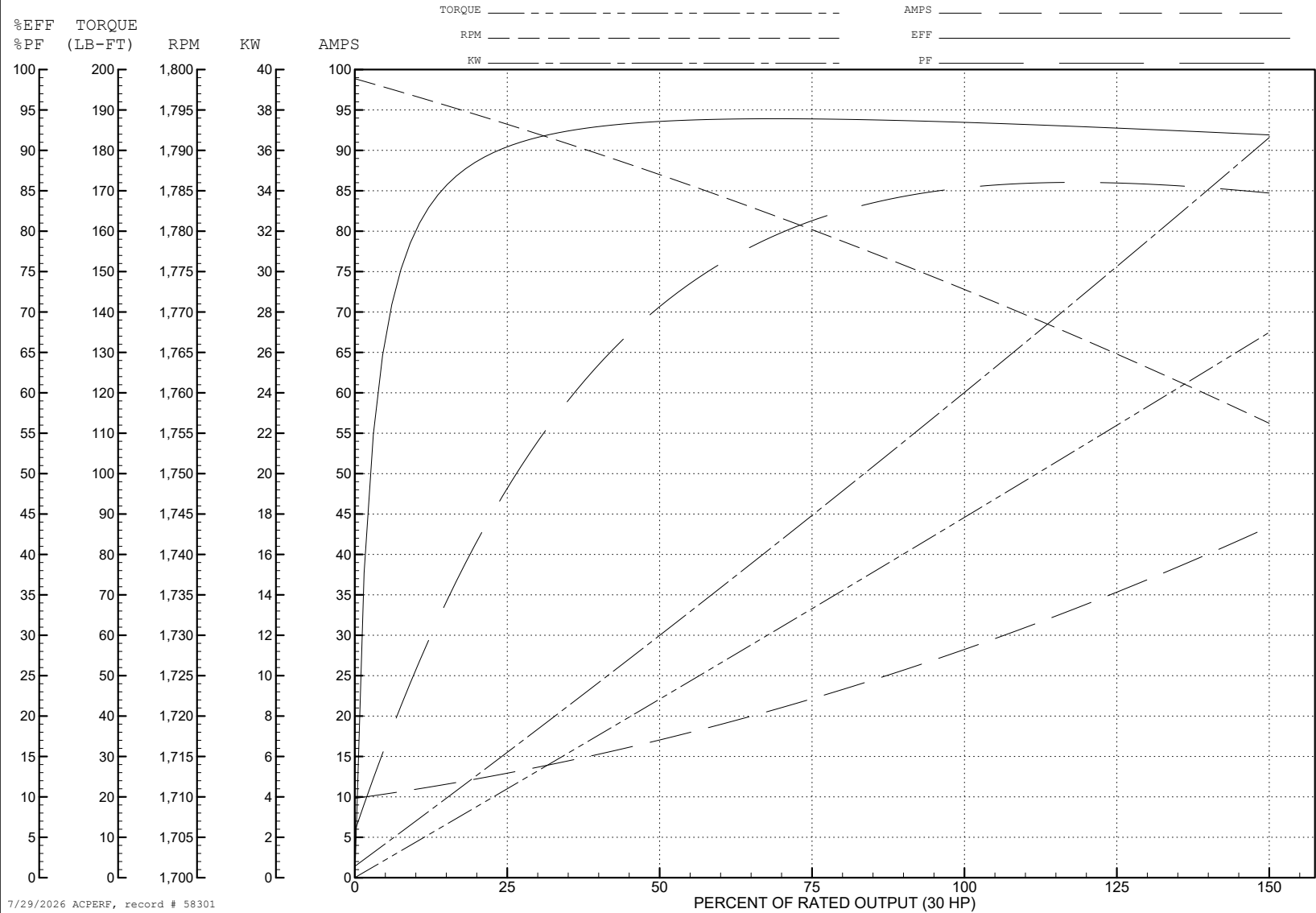
ABB Motors and Mechanical Inc.

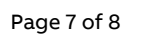
WINDING # 40WGX354

Typical performance - not guaranteed values.

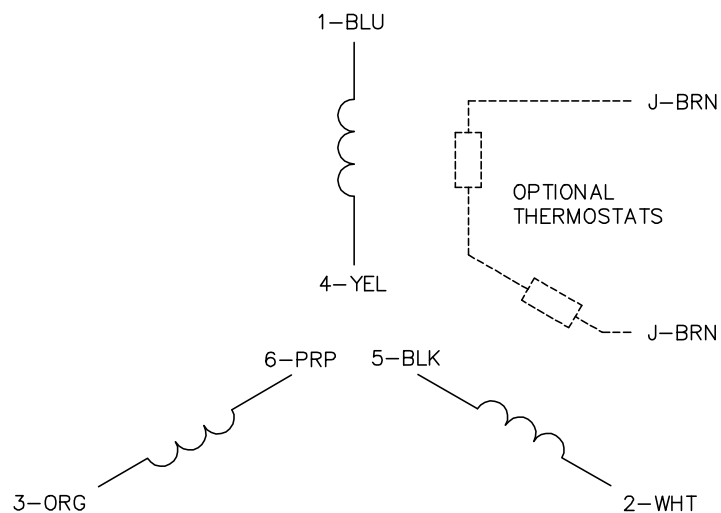
30 HP 3 PH 60 HZ 1770 RPM 575 V 4052M

TORQUES (LB-FT): PO=256 PU=112 LR=142 LRA=168

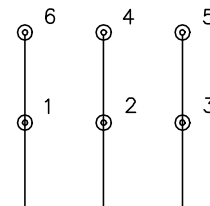




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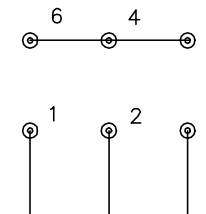


**RUN CONNECTION
(1D)**



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

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