

ABB BALDOR RELIANCE III

Customer information packet

FPM2515T-5

20HP, 1755RPM, 3PH, 60HZ, 256T, 3936M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA EEV
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	19.600 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	19.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	39D101
Base	
Status	PRD/A
Elec. spec.	39WGX987
Layout	39LYD101
Eff. date	12-12-2025
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	07-20-2016

KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.69 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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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.	FPM2515T-5				CUST P/N					I.P.	23		
SPEC.	39D101X987H2				SER.NO.					FRAME	256T		
HZ	60	HP	20		RPM	1755		HZ		HP		RPM	
VOLTS	575			CODE	F			VOLTS				CODE	
AMPS	19.6			DES	B			AMPS				DES	
EFF	91	SER.F.	1.15		PF	83		EFF		SER.F.		PF	
RATING	40C AMB-CONT				DE BRG	6309				GREASE	POLYREX EM		
BLANK					ODE BRG	6208				MTR. WT.	231		
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 58294

Typical performance - not guaranteed values

Winding: 39WGX987-R001			Type: 3936M		Enclosure: OPSB	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		20	Full Load Torque		59.2 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		19.6	Breakdown Torque		177 LB-FT	
R.P.M.		1755	Pull-up Torque		73.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		105 LB-FT	
NEMA Design Code		B	Starting Current		109 A	
Service Factor (S.F.)		1.15	No-load Current		7.71 A	
NEMA Nom. Eff.		91	Power Factor		83	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		48°C	
S.F. Amps			Temp. Rise @ S.F. Load		61°C	
			Locked-rotor Power Factor		35.6	
			Rotor inertia		1.57 LB-FT2	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	79	83	86	86	85
Efficiency	87.7	91.6	91.9	91.1	89.9	88.2	90.4
Speed	1790	1781	1770	1759	1746	1730	1751
Line amperes	8.98	11.8	15.5	19.6	24.4	29.6	22.5

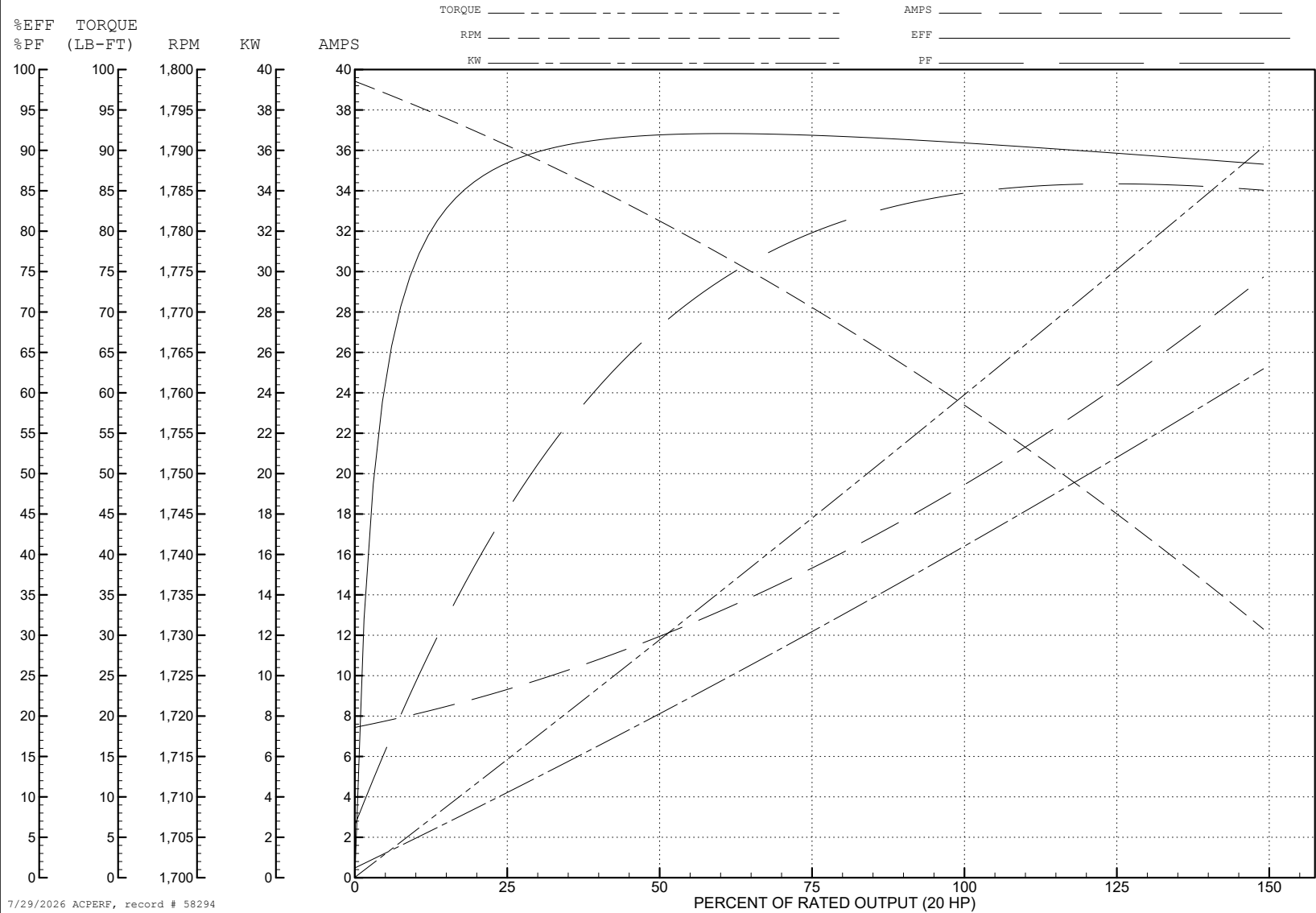
ABB Motors and Mechanical Inc.

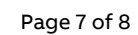
WINDING # 39WGX987

Typical performance - not guaranteed values.

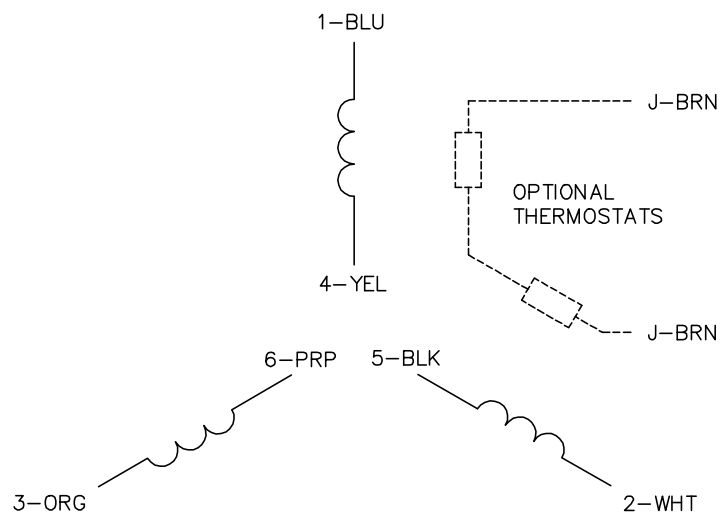
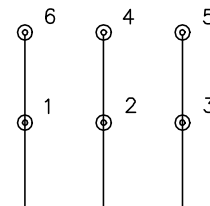
20 HP 3 PH 60 HZ 1755 RPM 575 V 3936M

TORQUES (LB-FT): PO=177 PU=73.5 LR=105 LRA=109

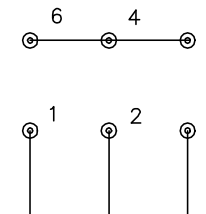




CD0382


 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

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