

ABB BALDOR RELIANCE III

Customer information packet

VJPFPM2515T-5

20HP, 1755RPM, 3PH, 60HZ, 256JP, 3936M, OPSB, F

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256JP
Frame Material	Steel
Frequency	60.00 Hz
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	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	19.600 A @ 575.0 V
Design Code	B
Drip Cover	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
KVA Code	F

Part Detail

Revision	N
Type	AC
Mech. spec.	39N092
Base	
Status	PRD/A
Elec. spec.	39WGX987
Layout	39LYN092
Eff. date	06-26-2024
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	07-22-2016

Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	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	28.07 IN
Power Factor	83
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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.	VJPFPM2515T-5				CUST P/N					I.P.	23		
SPEC.	39N092X987H2				SER.NO.					FRAME	256JP		
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.	208				
					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 KVA Code	Starting Current		109 A	
Service Factor (S.F.)		1.15	No-load Current		7.71 A	
NEMA Nom. Eff.		91 Power Factor	Line-line Res. @ 25°C		0.916 Ω	
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

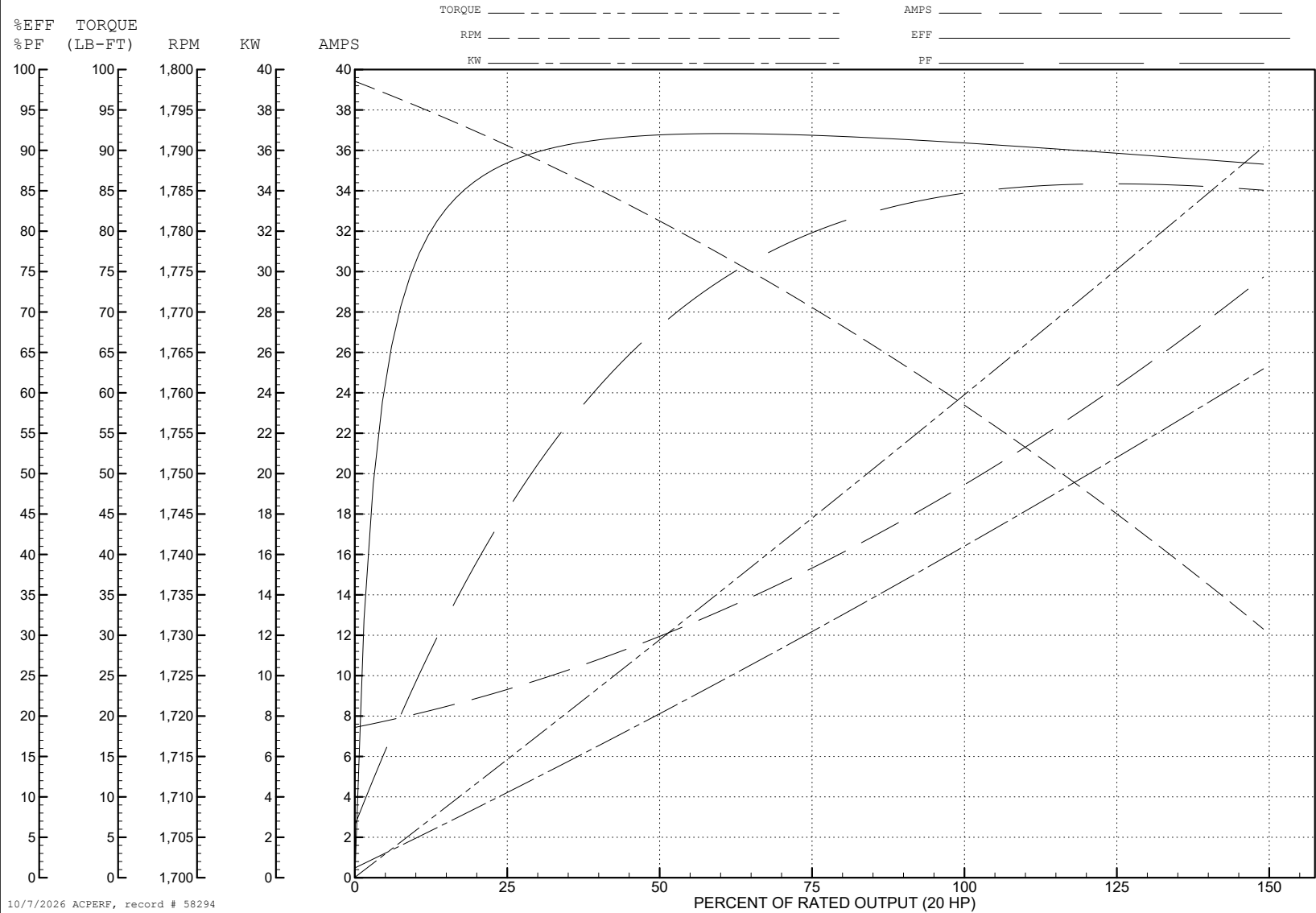
ABB Motors and Mechanical Inc.

WINDING # 39WGX987

Typical performance - not guaranteed values.

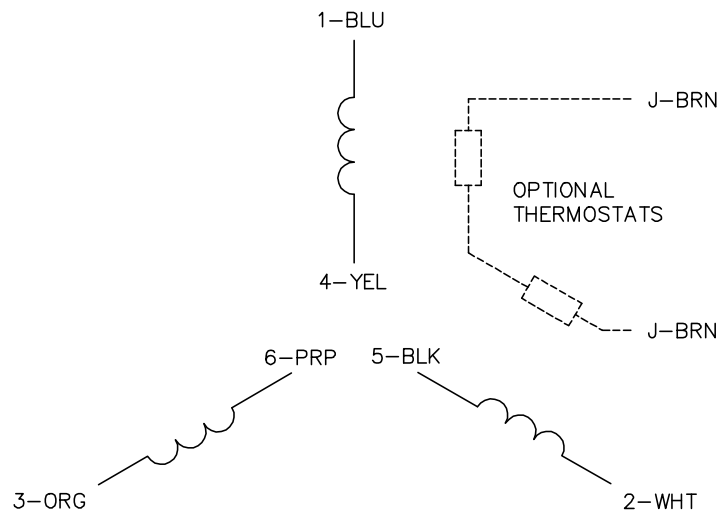
20 HP 3 PH 60 HZ 1755 RPM 575 V 3936M

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

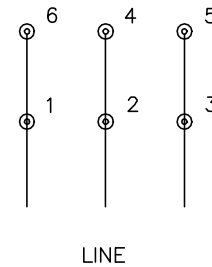




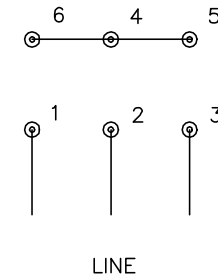
CD0382



**RUN CONNECTION
(1D)**



**START CONNECTION
(1Y)**



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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