

ABB BALDOR RELIANCE III

Customer information packet

VJPFPM2515T

20//15HP, 1755//1460RPM, 3PH, 60//50HZ, 256J

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256JP
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 50 HZ 20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 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	48.000 A @ 230.0 V 44.000 A @ 190.0 V 24.000 A @ 460.0 V 22.000 A @ 380.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	N
Type	AC
Mech. spec.	39N092
Base	
Status	PRD/A
Elec. spec.	39WGX931
Layout	39LYN092
Eff. date	06-26-2024
CD Diagram	CD0104
Poles	04
Leads	12#10
Proprietary	False
Created date	12-09-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	22.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 10 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	84
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	1460 rpm 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				CUST P/N					I.P.	23		
SPEC.	39N092X931H2				SER.NO.					FRAME	256JP		
HZ	60	HP	20		RPM	1755		HZ	50		HP	15	
												RPM	1460
VOLTS	230/460				CODE	F		VOLTS	190/380				CODE
													G
AMPS	48/24				DES	B		AMPS	44/22				DES
													B
EFF	91	SER.F.	1.15		PF	84		EFF	90.2		SER.F.	1.15	PF
													83
RATING	40C AMB-CONT				DE BRG	6309				GREASE	POLYREX EM		
BLANK					ODE BRG	6208				MTR. WT.	212		
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS					HTR-AMPS					HTR-WATTS			

AC Induction Motor Performance Data

Record # 54191

Typical performance - not guaranteed values

Winding: 39WGX931-R001			Type: 3936M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		20//15		Full Load Torque		59.2 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		48/24//44/22		Breakdown Torque		175 LB-FT		
R.P.M.		1755//1460		Pull-up Torque		72.8 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		104 LB-FT	
NEMA Design Code		B		KVA Code	F	Starting Current		134 A
Service Factor (S.F.)		1.15		No-load Current		9.29 A		
NEMA Nom. Eff.		91	Power Factor		84	Line-line Res. @ 25°C		0.62242 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

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	80	84	86	86	85
Efficiency	88.3	91.8	91.9	91.1	89.8	88.1	90.3
Speed	1790	1780.4	1769.7	1758.5	1745	1729.2	1750
Line amperes	10.9	14.5	19.1	24.3	30.4	36.9	28

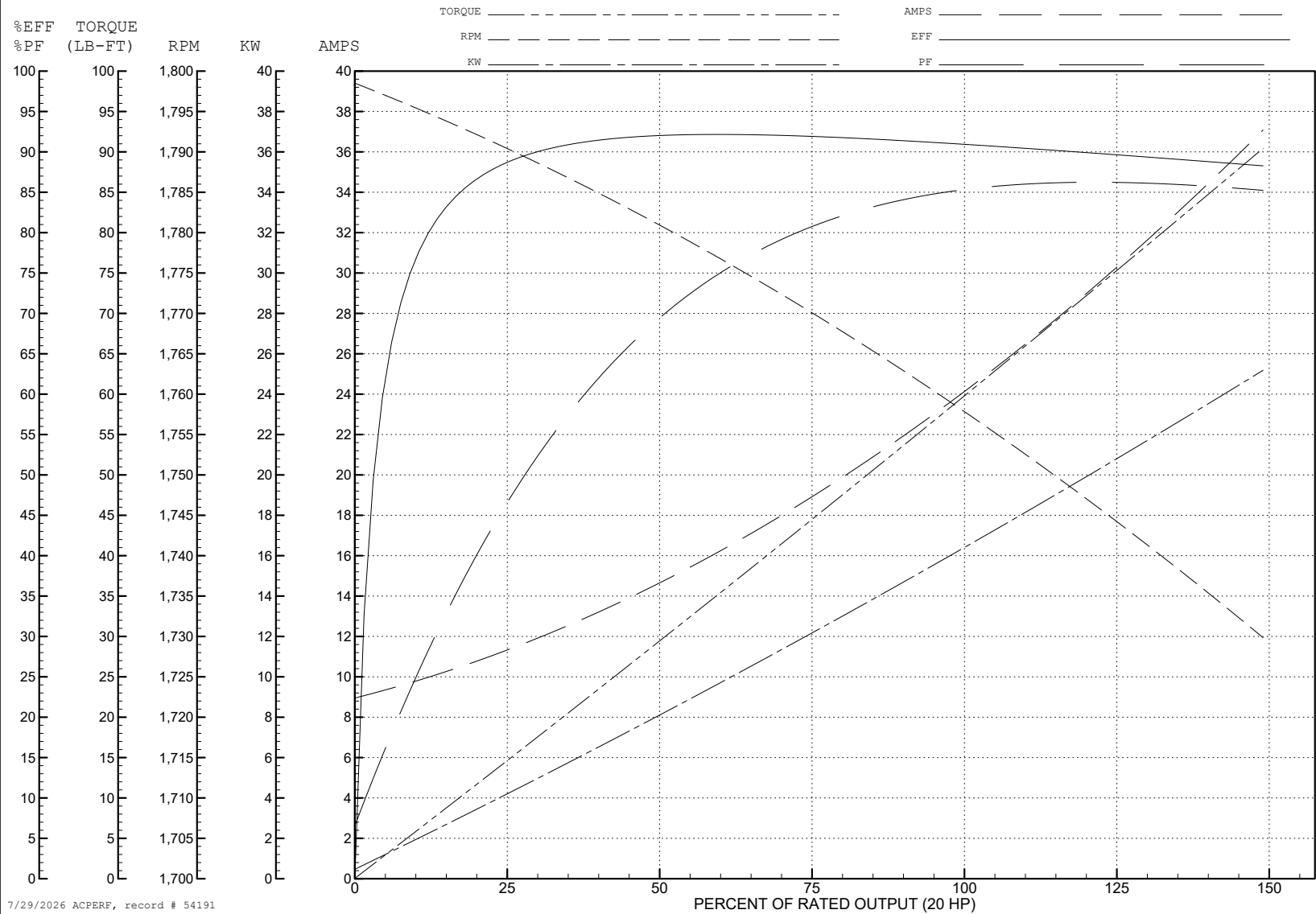
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WINDING # 39WGX931

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1758.5 RPM 460 V 3936M

TORQUES (LB-FT): PO=175 PU=72.8 LR=104 LRA=134



AC Induction Motor Performance Data

Record # 54192

Typical performance - not guaranteed values

Winding: 39WGX931-R001			Type: 3936M		Enclosure: OPSB		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		20//15		Full Load Torque		53.4 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		48/24/44/22		Breakdown Torque		167 LB-FT	
R.P.M.		1755//1460		Pull-up Torque		74.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		106 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		129 A
Service Factor (S.F.)		1.15		No-load Current		8.98 A	
NEMA Nom. Eff.		91	Power Factor	85	Line-line Res. @ 25°C		0.592 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps				Temp. Rise @ S.F. Load		54°C	
				Locked-rotor Power Factor		39.4	
				Rotor inertia		1.57 LB-FT2	

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	79	83	86	86	85
Efficiency	86.3	90.8	91.1	90.3	89	87.2	89.5
Speed	1491	1482	1472	1462	1450	1436	1455
Line amperes	10.4	13.6	17.7	22.4	27.8	33.7	25.6

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WINDING # 39WGX931

Typical performance - not guaranteed values.

15 HP 3 PH 50 HZ 1462 RPM 380 V 3936M

TORQUES (LB-FT): PO=167 PU=74.4 LR=106 LRA=129

