

ABB BALDOR RELIANCE III

Customer information packet

VJPFPM2513T

15//10HP, 1760//1460RPM, 3PH, 60//50HZ, 254J

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254JP
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ 15.000 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	35.000 A @ 230.0 V 29.200 A @ 190.0 V 17.500 A @ 460.0 V 14.600 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	L
Type	AC
Mech. spec.	39N092
Base	
Status	PRD/A
Elec. spec.	39WGX948
Layout	39LYN092
Eff. date	06-26-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-04-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.6 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	9 @ 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	87
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 1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line

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.	VJPFPM2513T				CUST P/N							I.P.	23			
SPEC.	39N092X948H2				SER.NO.							FRAME	254JP			
HZ	60	HP	15		RPM	1760		HZ	50		HP	10		RPM	1460	
VOLTS	230/460				CODE	F		VOLTS	190/380				CODE	H		
AMPS	35/17.5				DES	B		AMPS	29.2/14.6				DES	B		
EFF	91	SER.F.		1.15		PF	87		EFF	90.2			SER.F.	1.15	PF	85
RATING	40C AMB-CONT					DE BRG		6309				GREASE	POLYREX EM			
BLANK						ODE BRG		6208				MTR. WT.				
						CLASS		F			PH	3				
						ENCL		OPSB			CC	010A				
HTR-VOLTS					HTR-AMPS				HTR-WATTS							

AC Induction Motor Performance Data

Record # 55290

Typical performance - not guaranteed values

Winding: 39WGX948-R001			Type: 3936M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15//10	Full Load Torque		44.3 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		35/17.5//29.2/14.6	Breakdown Torque		139 LB-FT		
R.P.M.		1760//1460	Pull-up Torque		56.4 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		80.6 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		105 A
Service Factor (S.F.)		1.15		No-load Current		5.89 A	
NEMA Nom. Eff.		91	Power Factor	87	Line-line Res. @ 25°C		0.733 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C	
S.F. Amps				Temp. Rise @ S.F. Load		42°C	
				Locked-rotor Power Factor		35	
				Rotor inertia		1.57 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	84	87	88	88	88
Efficiency	87.6	91.5	92.2	91.4	90.4	88.9	90.8
Speed	1791	1782	1772	1761	1749	1735	1754
Line amperes	7.21	10.1	13.6	17.5	22	26.7	20.2

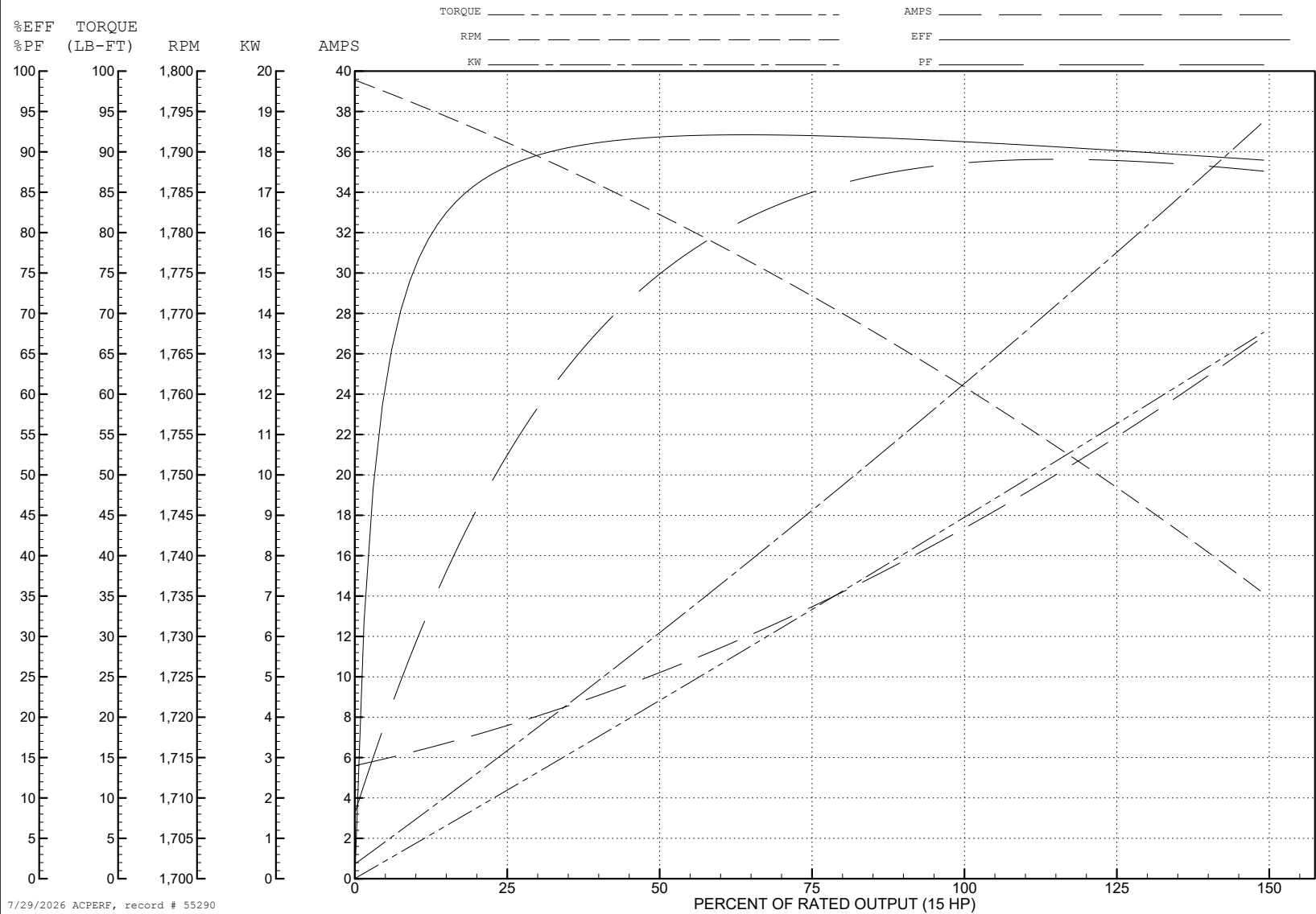
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WINDING # 39WGX948

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1761 RPM 460 V 3936M

TORQUES (LB-FT): PO=139 PU=56.4 LR=80.6 LRA=105



AC Induction Motor Performance Data

Record # 55291

Typical performance - not guaranteed values

Winding: 39WGX948-R001			Type: 3936M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		15//10		Full Load Torque		35.4 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		35/17.5//29.2/14.6		Breakdown Torque		133 LB-FT
R.P.M.		1760//1460		Pull-up Torque		57.8 LB-FT
Hz		60//50 Phase		Locked-rotor Torque		82.7 LB-FT
NEMA Design Code		B KVA Code		Starting Current		101 A
Service Factor (S.F.)		1.15		No-load Current		5.77 A
NEMA Nom. Eff.		91 Power Factor		Line-line Res. @ 25°C		0.733 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C
S.F. Amps				Temp. Rise @ S.F. Load		31°C
				Locked-rotor Power Factor		38.8
				Rotor inertia		1.57 LB-FT2

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	81	85	87	88	86
Efficiency	86.3	90.9	91.8	91.1	90.3	89	90.6
Speed	1493	1485	1477	1468	1459	1448	1463
Line amperes	6.75	8.91	11.5	14.5	18	21.5	16.6

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WINDING # 39WGX948

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1468 RPM 380 V 3936M

TORQUES (LB-FT): PO=133 PU=57.8 LR=82.7 LRA=101

