

ABB BALDOR RELIANCE III

Customer information packet

FPM2534T

30//25HP, 3510//2910RPM, 3PH, 60//50HZ, 284T

Class -

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	284TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ 30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3000 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	70.000 A @ 230.0 V 70.000 A @ 190.0 V 35.000 A @ 460.0 V 35.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	R
Type	AC
Mech. spec.	39R082
Base	
Status	PRD/A
Elec. spec.	39WGX216
Layout	39LYR082
Eff. date	11-14-2023
CD Diagram	CD0104
Poles	02
Leads	12#12
Proprietary	False
Created date	09-17-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.06 IN
Power Factor	89
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	2910 rpm 3510 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.	FPM2534T				CUST P/N				I.P.				23			
SPEC.	39R082X216H2				SER.NO.				FRAME				284TS			
HZ	60	HP	30		RPM	3510		HZ	50		HP	25		RPM	2910	
VOLTS	230/460				CODE	G		VOLTS	190/380				CODE	F		
AMPS	70/35				DES	B		AMPS	70/35				DES	B		
EFF	91	SER.F.		1.15		PF	89		EFF	90.2			SER.F.	1.15	PF	89
RATING	40C AMB-CONT					DE BRG		6311			GREASE		POLYREX EM			
BLANK						ODE BRG		6208			MTR. WT.		226			
						CLASS	F			PH	3					
						ENCL	ODP			CC	010A					
HTR-VOLTS			HTR-AMPS				HTR-WATTS									

AC Induction Motor Performance Data

Record # 57089

Typical performance - not guaranteed values

Winding: 39WGX216-R005			Type: 3936M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		44.9 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		70/35		Breakdown Torque		156 LB-FT	
R.P.M.		3510//2910		Pull-up Torque		47.6 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		67.2 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		214 A
Service Factor (S.F.)		1.15		No-load Current		10.3 A	
NEMA Nom. Eff.		91	Power Factor	89	Line-line Res. @ 25°C		0.393 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps				Temp. Rise @ S.F. Load		51°C	
				Locked-rotor Power Factor		30.2	
				Rotor inertia		0.92 LB-FT2	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	80	87	89	90	90	90
Efficiency	89.4	92.2	92.3	91.4	90.2	88.5	90.7
Speed	3578	3556	3533	3508	3481	3450	3492
Line amperes	13.03	19	26.36	34.4	43.2	53.1	39.7

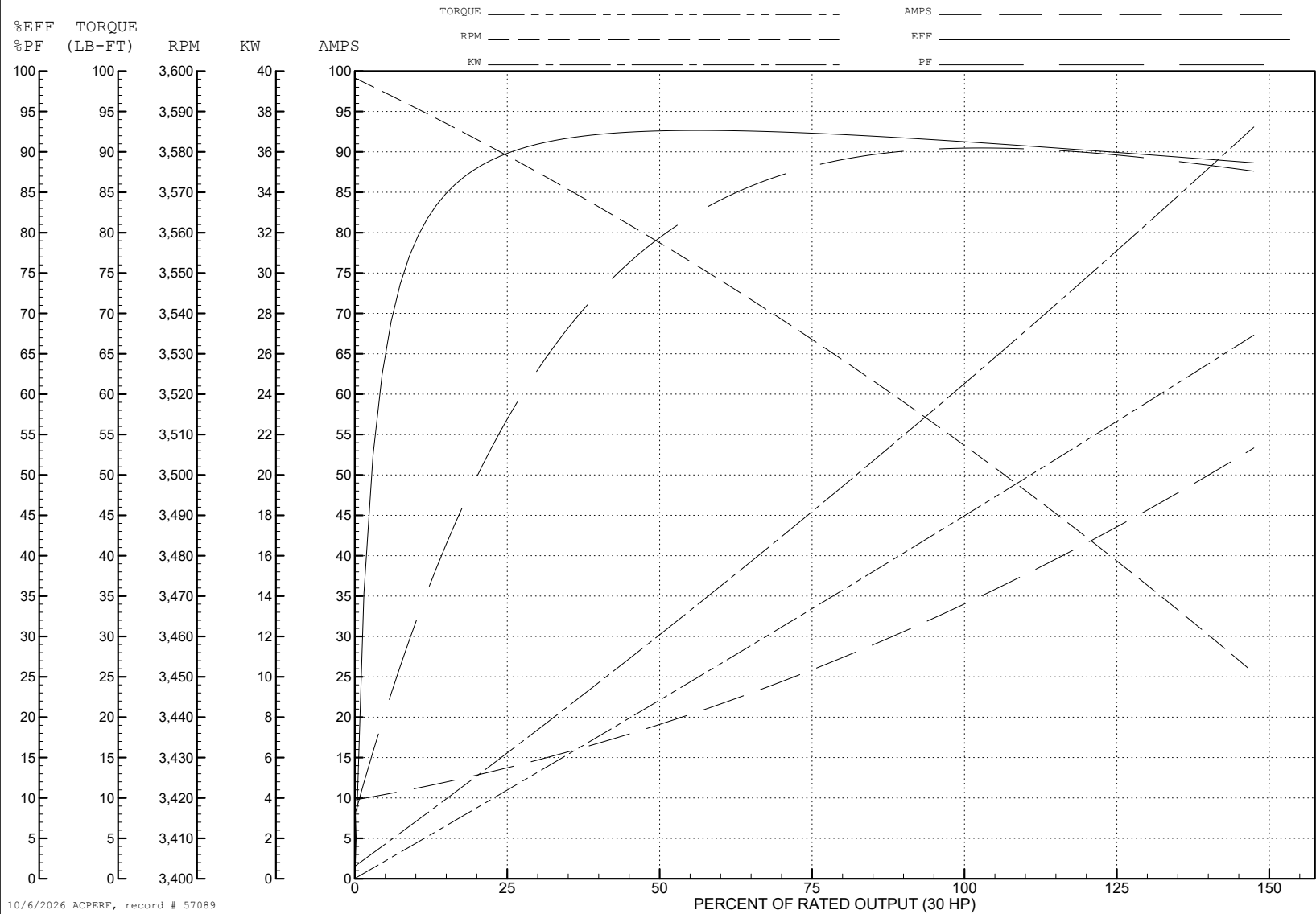
ABB Motors and Mechanical Inc.

WINDING # 39WGX216

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 3508 RPM 460 V 3936M

TORQUES (LB-FT): PO=156 PU=47.6 LR=67.2 LRA=214



AC Induction Motor Performance Data

Record # 57090

Typical performance - not guaranteed values

Winding: 39WGX216-R005			Type: 3936M		Enclosure: OPSB		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		45.2 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		70/35		Breakdown Torque		149 LB-FT	
R.P.M.		3510//2910		Pull-up Torque		50.3 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		71 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		208 A
Service Factor (S.F.)		1.15		No-load Current		10.1 A	
NEMA Nom. Eff.		91	Power Factor	89	Line-line Res. @ 25°C		0.379 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		38°C	
S.F. Amps				Temp. Rise @ S.F. Load		48°C	
				Locked-rotor Power Factor		34.2	
				Rotor inertia		0.92 LB-FT2	

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	82	88	90	90	88	90
Efficiency	91.2	92.9	92.4	90.9	89.3	87.1	90
Speed	2979	2957	2934	2909	2882	2850	2893
Line amperes	12.8	19	26.5	34.8	43.9	54.4	40.3

ABB Motors and Mechanical Inc.

WINDING # 39WGX216

Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 2909 RPM 380 V 3936M

TORQUES (LB-FT): PO=149 PU=50.3 LR=71 LRA=208

