

ABB BALDOR RELIANCE III

Customer information packet

FPM3312T

10//7.5HP, 3490//2900RPM, 3PH, 60//50HZ, 213

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ 10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV UR
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	11.000 A @ 380.0 V 12.000 A @ 460.0 V 22.000 A @ 190.0 V 24.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	H
Type	AC
Mech. spec.	37N755
Base	
Status	PRD/A
Elec. spec.	37WGR891
Layout	37LYN755
Eff. date	08-16-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	09-23-2015

Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	11.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.32 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 rpm

	3490 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.	FPM3312T				CUST P/N					I.P.	23		
SPEC.	37N755R891H2				SER.NO.					FRAME	213T		
HZ	60	HP	10		RPM	3490		HZ	50		HP	7.5	
											RPM	2900	
VOLTS	230/460				CODE	H				VOLTS	190/380		
												CODE	H
AMPS	24/12				DES	B				AMPS	22/11		
												DES	B
EFF	88.5	SER.F.	1.15		PF	86		EFF	87.5		SER.F.	1.15	
												PF	85
RATING	40C AMB-CONT				DE BRG	6307				GREASE	POLYREX EM		
BLANK					ODE BRG	6206				MTR. WT.	121		
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS					HTR-AMPS					HTR-WATTS			

AC Induction Motor Performance Data

Record # 54378

Typical performance - not guaranteed values

Winding: 37WGR891-R001			Type: 3728M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		10//7.5		Full Load Torque		14.9 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		24/12//22/11		Breakdown Torque		49.7 LB-FT
R.P.M.		3490//2900		Pull-up Torque		21.2 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque		24.6 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		81 A
Service Factor (S.F.)		1.15		No-load Current		4.66 A
NEMA Nom. Eff.		88.5	Power Factor	Line-line Res. @ 25°C		1.2451 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps				Temp. Rise @ S.F. Load		45°C
				Locked-rotor Power Factor		38.6

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	86	88	89	87
Efficiency	85.4	90	90.5	89.9	88.7	87.2	89.2
Speed	3576	3552.4	3527.2	3498.8	3467	3435.1	3480
Line amperes	5.45	7.17	9.45	12	14.9	17.9	13.7

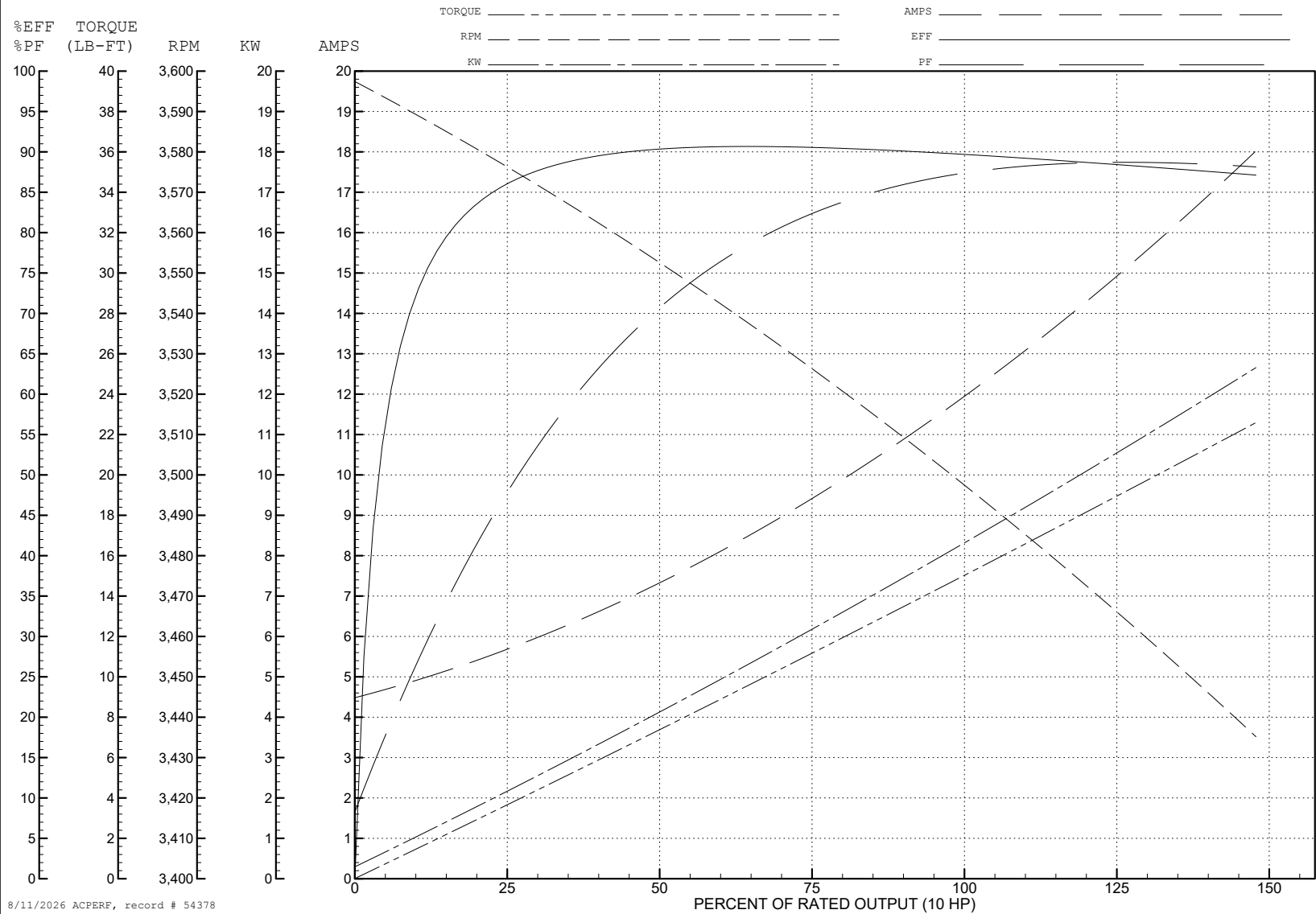
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WINDING # 37WGR891

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3498.8 RPM 460 V 3728M

TORQUES (LB-FT): PO=49.7 PU=21.2 LR=24.6 LRA=81



AC Induction Motor Performance Data

Record # 54379

Typical performance - not guaranteed values

Winding: 37WGR891-R001			Type: 3728M		Enclosure: OPSB			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		10//7.5		Full Load Torque		13.5 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		24/12//22/11		Breakdown Torque		46.1 LB-FT		
R.P.M.		3490//2900		Pull-up Torque		22.7 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		26 LB-FT	
NEMA Design Code		B		KVA Code	H	Starting Current		75.9 A
Service Factor (S.F.)		1.15		No-load Current		4.57 A		
NEMA Nom. Eff.		88.5	Power Factor		86	Line-line Res. @ 25°C		1.2451 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C		
S.F. Amps				Temp. Rise @ S.F. Load		41°C		

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	81	85	88	89	87
Efficiency	85.8	90	90.5	89.8	88.5	86.9	89
Speed	2978.5	2956.8	2933.7	2908.4	2878.8	2848.7	2891
Line amperes	5.22	6.77	8.73	11.1	13.7	16.4	12.7

ABB Motors and Mechanical Inc.

WINDING # 37WGR891

Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 2908.4 RPM 380 V 3728M

TORQUES (LB-FT): PO=46.1 PU=22.7 LR=26 LRA=75.9

