

ABB BALDOR RELIANCE III

Customer information packet

FPM3313T

10//7.5HP, 1760//1460RPM, 3PH, 60//50HZ, 215

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	215T
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	1500 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	11.700 A @ 380.0 V 12.700 A @ 460.0 V 23.400 A @ 190.0 V 25.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %

Part Detail

Revision	K
Type	AC
Mech. spec.	37N755
Base	
Status	PRD/A
Elec. spec.	37WGR912
Layout	37LYN755
Eff. date	08-16-2022
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	12-22-2015

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	11.7 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	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1465 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.	FPM3313T				CUST P/N							I.P.	23		
SPEC.	37N755R912H1				SER.NO.							FRAME	215T		
HZ	60	HP	10		RPM	1760		HZ	50		HP	7.5		RPM	1465
VOLTS	230/460				CODE	H		VOLTS	190/380				CODE	H	
AMPS	25.4/12.7				DES	B		AMPS	23.4/11.7				DES	B	
EFF	89.5	SER.F.	1.15		PF	82		EFF	89.5		SER.F.	1.15		PF	81
RATING	40C AMB-CONT					DE BRG	6307					GREASE	POLYREX EM		
BLANK						ODE BRG	6206					MTR. WT.	130		
						CLASS	F			PH	3				
						ENCL	OPSB			CC	010A				
HTR-VOLTS			HTR-AMPS				HTR-WATTS								

AC Induction Motor Performance Data

Record # 56055

Typical performance - not guaranteed values

Winding: 37WGR912-R001		Type: 3738M	Enclosure: OPSB
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10//7.5	Full Load Torque	29.9 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	25.4/12.7//23.4/11.7	Breakdown Torque	86.5 LB-FT
R.P.M.	1760//1465	Pull-up Torque	44.4 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	52.5 LB-FT
NEMA Design Code	B KVA Code	Starting Current	80.5 A
Service Factor (S.F.)	1.15	No-load Current	5.06 A
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	1.2634 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	45°C
S.F. Amps		Temp. Rise @ S.F. Load	56°C

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	68	77	82	83	84	83
Efficiency	87.5	91	91.1	90.3	88.9	87.2	89.5
Speed	1791.8	1783.2	1773	1762.5	1750.9	1737.4	1756
Line amperes	5.84	7.61	9.99	12.7	15.8	19.2	14.6

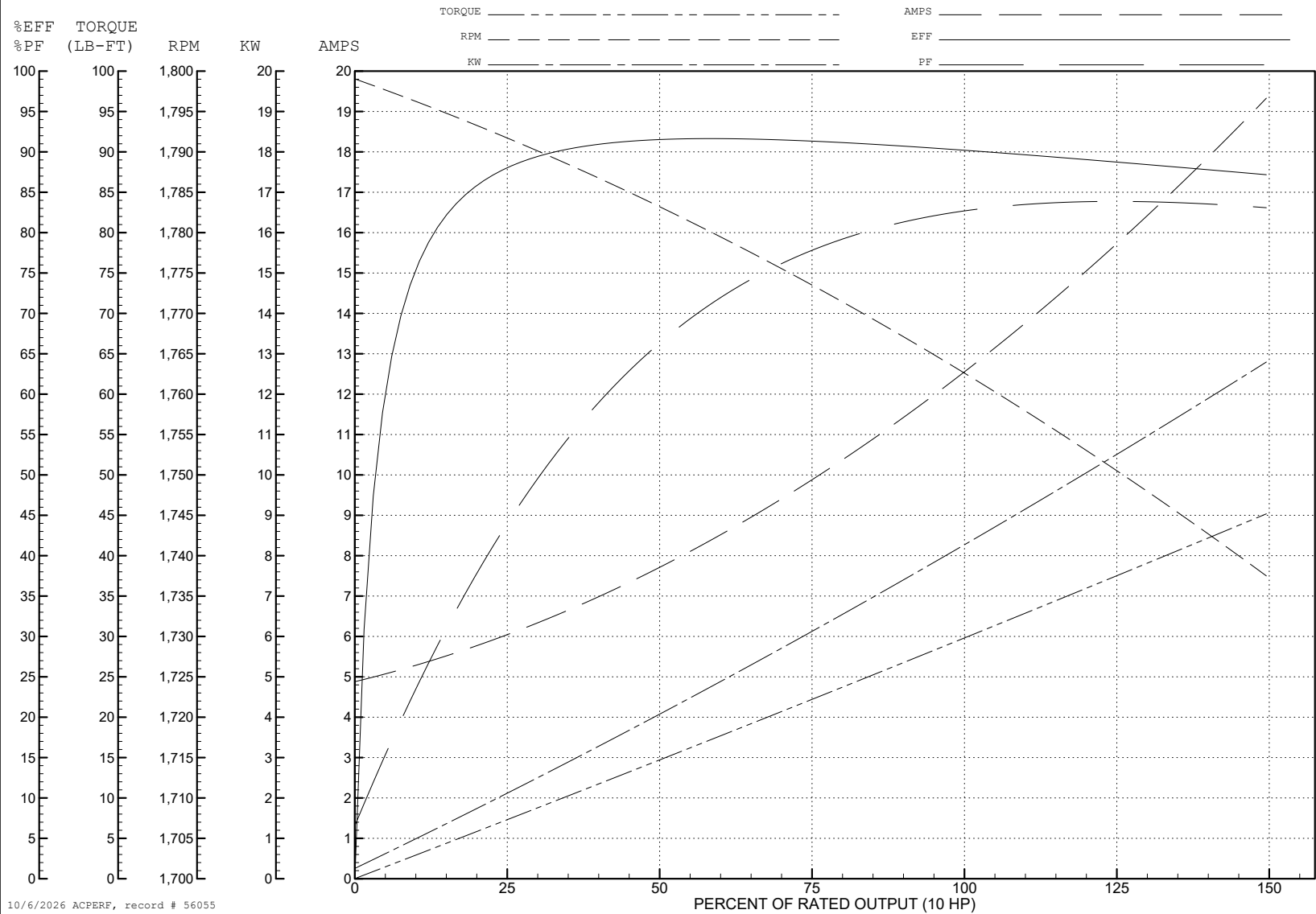
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WINDING # 37WGR912

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1762.5 RPM 460 V 3738M

TORQUES (LB-FT): PO=86.5 PU=44.4 LR=52.5 LRA=80.5



AC Induction Motor Performance Data

Record # 56073

Typical performance - not guaranteed values

Winding: 37WGR912-R001		Type: 3738M	Enclosure: OPSB
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	10//7.5	Full Load Torque	27 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	25.4/12.7//23.4/11.7	Breakdown Torque	82.6 LB-FT
R.P.M.	1760//1465	Pull-up Torque	45.8 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	53.2 LB-FT
NEMA Design Code	B KVA Code	Starting Current	75.1 A
Service Factor (S.F.)	1.15	No-load Current	4.96 A
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	1.258 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	41°C
S.F. Amps		Temp. Rise @ S.F. Load	51°C

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	81	84	84	83
Efficiency	86.8	90.6	91	90.2	88.9	87	89.4
Speed	1492.8	1485.3	1476.8	1467.6	1457.7	1444.8	1462
Line amperes	5.62	7.15	9.23	11.7	14.3	17.4	13.3

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WINDING # 37WGR912

Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 1467.6 RPM 380 V 3738M

TORQUES (LB-FT): PO=82.6 PU=45.8 LR=53.2 LRA=75.1

