

ABB BALDOR RELIANCE III

Customer information packet

M1224T

5/2.2HP, 1725/1140RPM, 3PH, 60HZ, 215T, 3735M

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	215T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ 2.200 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	6.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
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	3.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AH
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGW023
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#14
Proprietary	False
Created date	01-01-0001

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3735M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	16.32 IN
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	1140 rpm
	1725 rpm
Speed Code	2S-2W-VT
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

NP1256L									
CAT.NO.	M1224T								
SPEC.	37B01W23								
HP	5/2.2								
VOLTS	460								
AMP	6.4/3.5								
RPM	1725/1140								
FRAME	215T		HZ	60			PH	3	
SER.F.	1.15		CODE	J	DES	B	CLASS	F	
NEMA-NOM-EFF			PF						
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	OPEN		SN						

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 37310

Typical performance - not guaranteed values

Winding: 37WGW023-R002			Type: 3735M		Enclosure: OPEN		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		5/2.2		Full Load Torque		15 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		6.4/3.5		Breakdown Torque		50 LB-FT	
R.P.M.		1725/1140		Pull-up Torque		38 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		49 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		46 A
Service Factor (S.F.)		1.15		No-load Current		2.3 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		4.21 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		70°C	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	73	81	86	88	91	87
Efficiency	76.3	82.4	83.2	81.6	80	76.9	80.6
Speed	1779	1759	1738	1715	1689	1658	1699
Line amperes	2.8	3.9	5.2	6.5	8	9.5	7.4

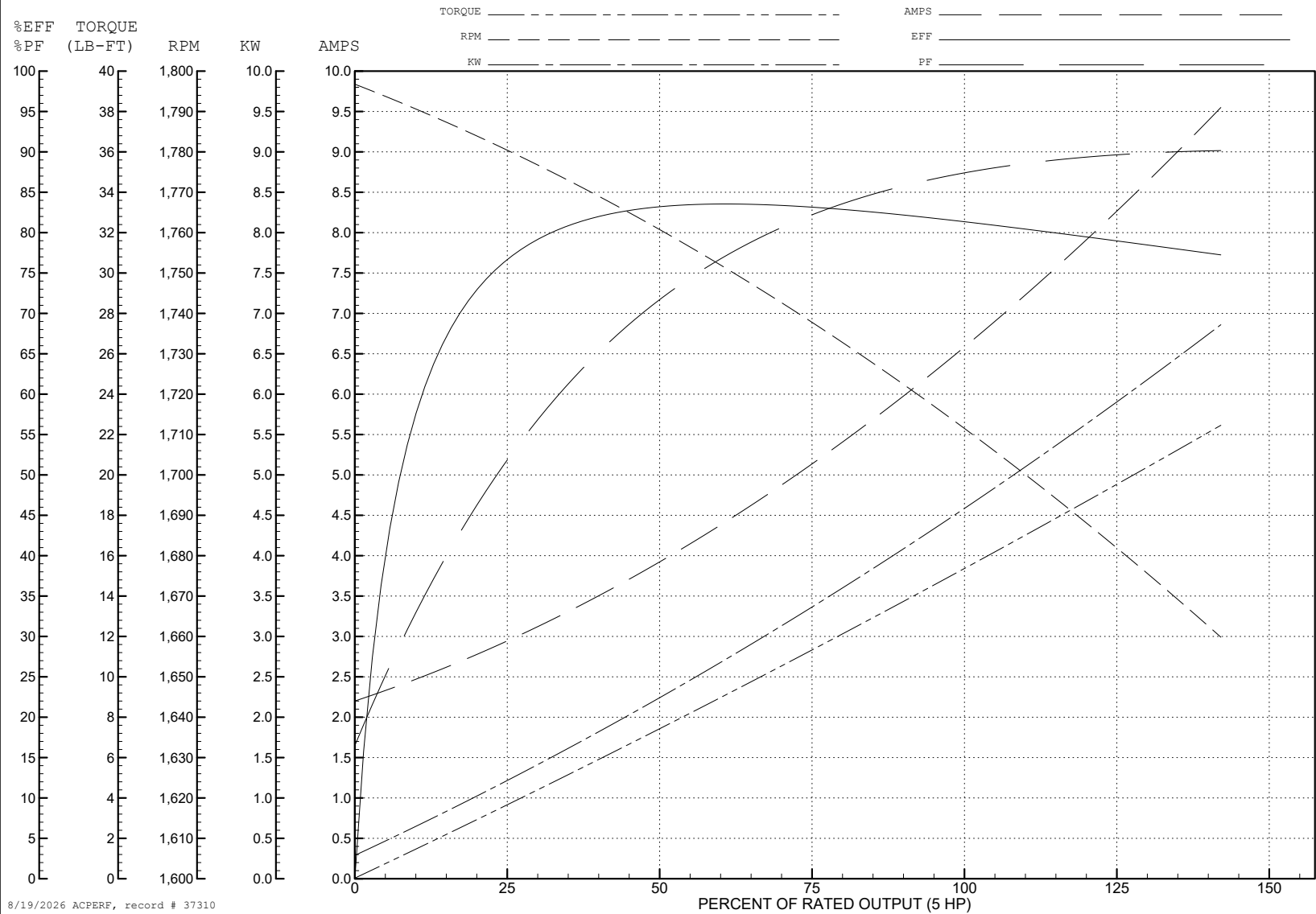
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WINDING # 37WGW023

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1715 RPM 460 V 3735M

TORQUES (LB-FT) : PO=50 PU=38 LR=49 LRA=46



AC Induction Motor Performance Data

Record # 37311

Typical performance - not guaranteed values

Winding: 37WGW023-R002				Type: 3735M		Enclosure: OPEN	
Nameplate Data				460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		5/2.2		Full Load Torque		10 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		6.4/3.5		Breakdown Torque		29 LB-FT	
R.P.M.		1725/1140		Pull-up Torque		20 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		21 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		21 A
Service Factor (S.F.)		1.15		No-load Current		2.1 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		8.36 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C	
S.F. Amps				Temp. Rise @ S.F. Load		39°C	

Load Characteristics 460 V, 60 Hz, 2.2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	53	64	73	78	81	76
Efficiency	65.9	76.2	78.6	79.1	78.5	76.8	78.7
Speed	1189	1179	1170	1159	1147	1133	1152
Line amperes	2.2	2.6	3.1	3.6	4.2	4.9	3.96

ABB Motors and Mechanical Inc.

WINDING # 37WGW023

Typical performance - not guaranteed values.

2.2 HP 3 PH 60 HZ 1159 RPM 460 V 3735M

TORQUES (LB-FT) : PO=29 PU=20 LR=21 LRA=21

