

ABB BALDOR RELIANCE III

Customer information packet

M1024T

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	230.0 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	12.800 A @ 230.0 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	7.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AH
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGW024
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.	M1024T								
SPEC.	37B01W24								
HP	5/2.2								
VOLTS	230								
AMP	12.8/7								
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						

Parts List

Part number	Description	Quantity
SA030352	SA 37B01W24	1.000 ea
RA026393	RA 37B01W24	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3203A00	MASTER,ODE,206 BRG,GREASER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3204D00	MASTER,DE,307 BRG,GREASER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 37312

Typical performance - not guaranteed values

Winding: 37WGW024-R003			Type: 3735M		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: High Speed Connection			
Rated Output (HP)		5/2.2	Full Load Torque		15 LB-FT	
Volts		230	Start Configuration		direct on line	
Full Load Amps		12.8/7	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	
Service Factor (S.F.)		1.15	Starting Current		92 A	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		57°C	
S.F. Amps			Temp. Rise @ S.F. Load		70°C	

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	73	83	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	5.6	7.8	10.2	13	16	19	14.8

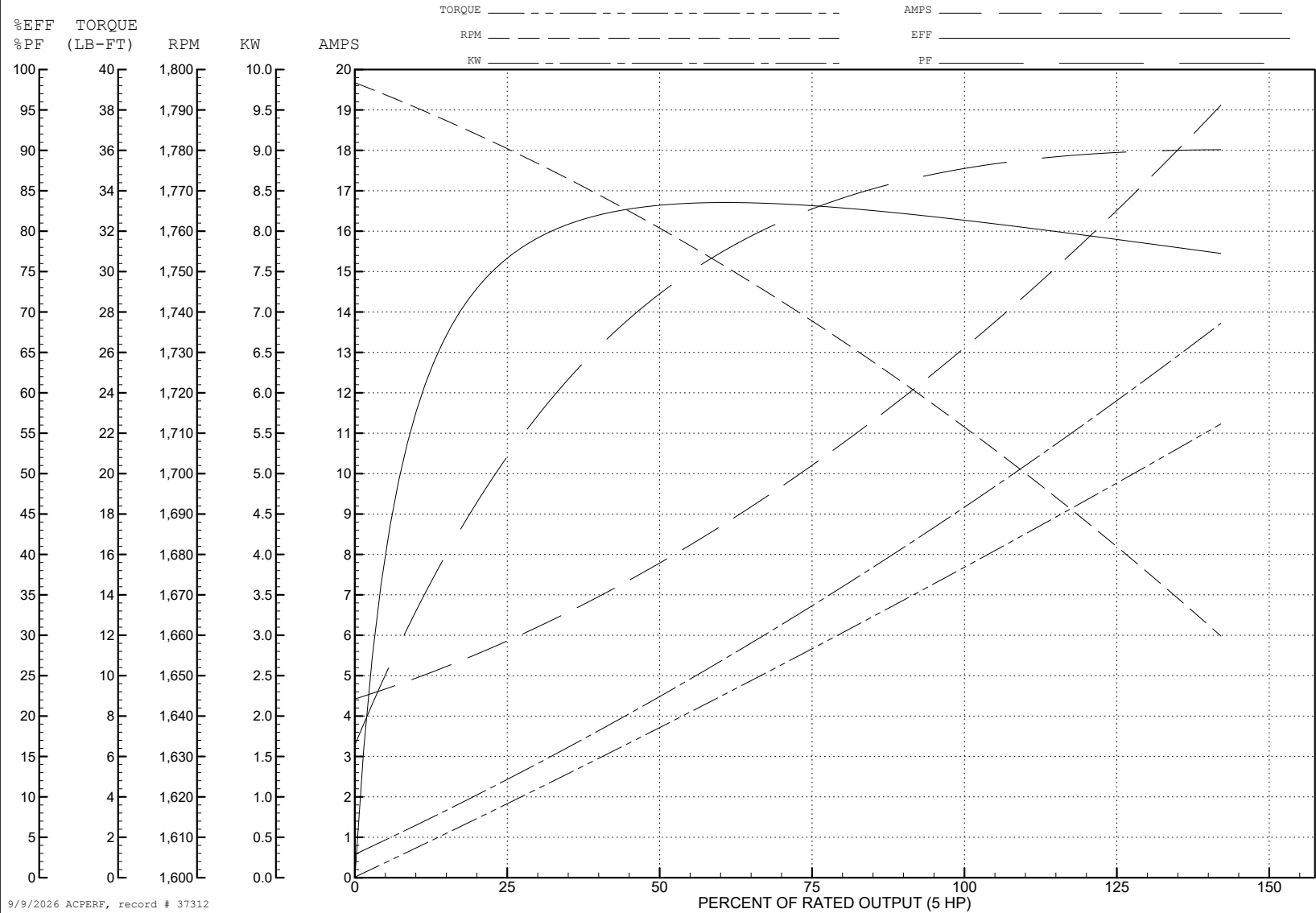
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WINDING # 37WGW024

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1715 RPM 230 V 3735M

TORQUES (LB-FT) : PO=50 PU=38 LR=49 LRA=92



AC Induction Motor Performance Data

Record # 37313

Typical performance - not guaranteed values

Winding: 37WGW024-R003			Type: 3735M		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		5/2.2	Full Load Torque		10 LB-FT	
Volts		230	Start Configuration		direct on line	
Full Load Amps		12.8/7	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		42 A
Service Factor (S.F.)		1.15	No-load Current		4.2 A	
NEMA Nom. Eff.		0 Power Factor	0	Line-line Res. @ 25°C		2.17 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		33°C	
S.F. Amps			Temp. Rise @ S.F. Load		39°C	

Load Characteristics 230 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	4.4	5.2	6.2	7.2	8.4	9.8	7.92

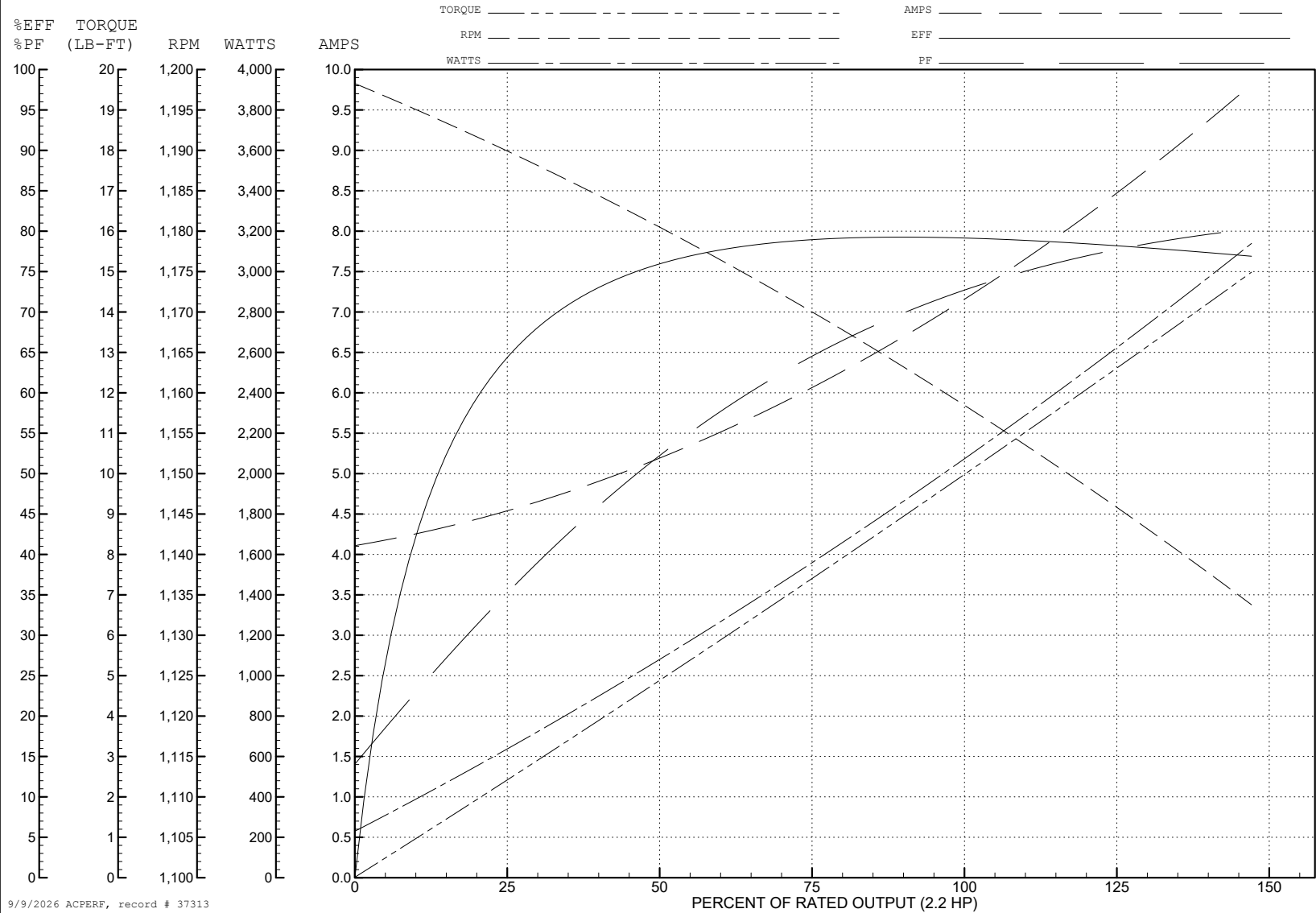
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WINDING # 37WGW024

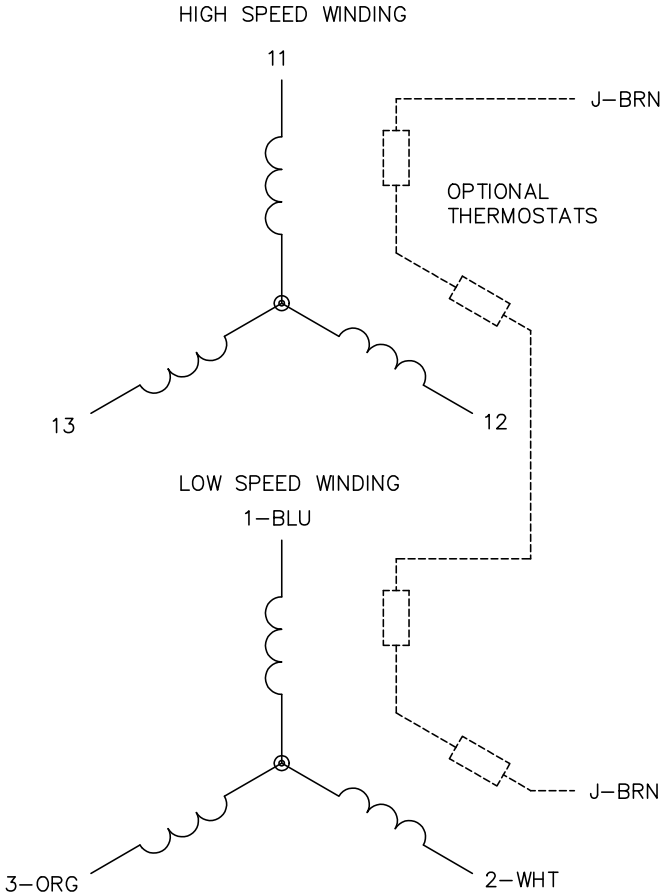
Typical performance - not guaranteed values.

2.2 HP 3 PH 60 HZ 1159 RPM 230 V 3735M

TORQUES (LB-FT) : PO=29 PU=20 LR=21 LRA=42



CD0013



LOW SPEED

11 12 13

1 2 3

LINE

HIGH SPEED

1 2 3

11 12 13

LINE

- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0013

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 2-WINDING