

ABB BALDOR RELIANCE III

Customer information packet

M1724T

5/2.2HP, 1725/1140RPM, 3PH, 60HZ, 215T, 3740M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	E
Type	AC
Mech. spec.	37T397
Base	
Status	PRD/A
Elec. spec.	37WGY494
Layout	37LYT397
Eff. date	05-14-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#14
Proprietary	False
Created date	06-11-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4 6
Overall Length	19.01 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 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.	M1724T								
SPEC.	37T397Y494G1								
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	K	DES	B	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA370630	SA 37T397Y494G1	1.000 ea
RA360289	RA 37T397Y494G1	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
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	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
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	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
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 36702

Typical performance - not guaranteed values

Winding: 37WGY494-R004			Type: 3740M		Enclosure: TEFC		
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		51 LB-FT	
R.P.M.		1725/1140		Pull-up Torque		36 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		51 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		58 A
Service Factor (S.F.)		1.15		No-load Current		2.7 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		3.31 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		80°C	
S.F. Amps				Temp. Rise @ S.F. Load		96°C	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	70	80	83	85	85	84
Efficiency	75.9	82.2	83.2	81.4	79.4	76	80.2
Speed	1780	1761	1743	1721	1697	1665	1707
Line amperes	3.1	4.1	5.3	6.8	8.4	10.4	7.76

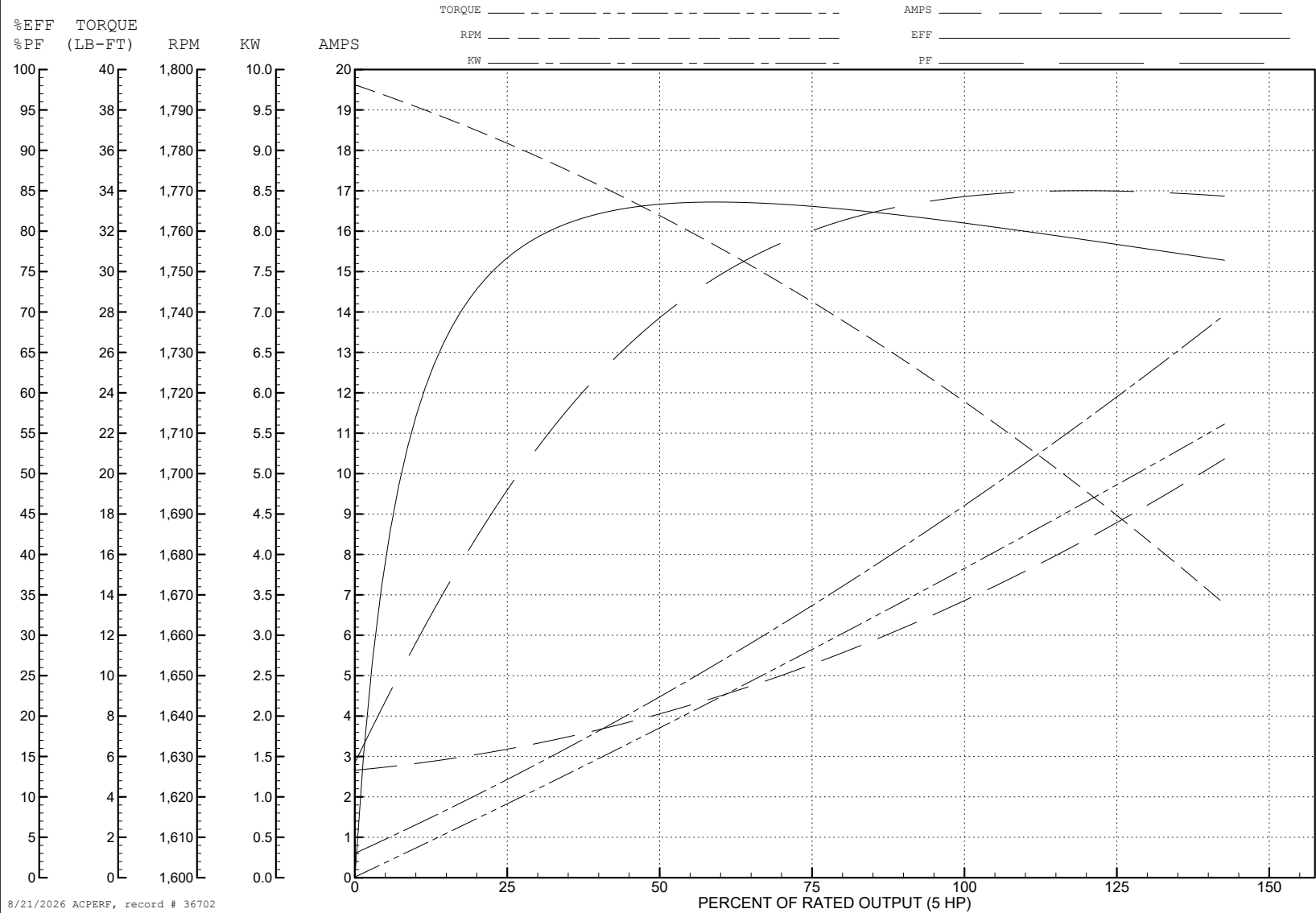
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WINDING # 37WGY494

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1721 RPM 460 V 3740M

TORQUES (LB-FT) : PO=51 PU=36 LR=51 LRA=58



AC Induction Motor Performance Data

Record # 36703

Typical performance - not guaranteed values

Winding: 37WGY494-R004			Type: 3740M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		5/2.2		Full Load Torque		9.9 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		6.4/3.5		Breakdown Torque		25 LB-FT	
R.P.M.		1725/1140		Pull-up Torque		13 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		20 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		19.5 A
Service Factor (S.F.)		1.15		No-load Current		1.9 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		8.58 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	

Load Characteristics 460 V, 60 Hz, 2.2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	57	68	75	77	79	76
Efficiency	71.6	79.7	80.9	80	77.9	75.1	78.7
Speed	1189	1179	1167	1155	1137	1119	1144
Line amperes	2	2.3	2.8	3.4	4.2	5	3.88

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WINDING # 37WGY494

Typical performance - not guaranteed values.

2.2 HP 3 PH 60 HZ 1155 RPM 460 V 3740M

TORQUES (LB-FT): PO=25 PU=13 LR=20 LRA=19.5

