

ABB BALDOR RELIANCE III

Customer information packet

EM3702

2HP, 865RPM, 3PH, 60HZ, 215, 3744M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 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	3.500 A @ 460.0 V 7.000 A @ 230.0 V 7.200 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	37A011
Base	
Status	PRD/A
Elec. spec.	37WGR734
Layout	37LYA011
Eff. date	10-15-2025
CD Diagram	CD0005
Poles	08
Leads	9#14
Proprietary	False
Created date	11-13-2015

High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	18.63 IN
Power Factor	61
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	865 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

NP2116L									
CAT.NO.	EM3702								
SPEC.	37A011R734G1								
HP	2								
VOLTS	230/460								
AMP	7/3.5								
RPM	865								
FRAME	215			HZ	60		PH	3	
SER.F.	1.15	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	85.5	PF	61						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	ODE	6206						
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA310520	SA 37A011R734G1	1.000 ea
RA297915	RA 37A011R734G1	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
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 HXWSSL D 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
HW2501E18	KEY, 1/4 SQ X 2.000	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
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2116L	ALUM SUPER-E UL CC	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 57476

Typical performance - not guaranteed values

Winding: 37WGR734-R003			Type: 3744M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		12.2 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		7/3.5	Breakdown Torque		36.2 LB-FT		
R.P.M.		865	Pull-up Torque		20.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		22.2 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		18.7 A
Service Factor (S.F.)		1.15	No-load Current		2.25 A		
NEMA Nom. Eff.		85.5	Power Factor	61	Line-line Res. @ 25°C		4.59 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		22°C
S.F. Amps					Temp. Rise @ S.F. Load		26°C
					Locked-rotor Power Factor		32.5
					Rotor inertia		1.09 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	42	53	61	65	69	63
Efficiency	77.6	84.9	86.8	87.3	85.9	83.9	86.5
Speed	892	885	877	868	857	846	861
Line amperes	2.37	2.65	3.06	3.57	4.16	4.86	3.92

ABB Motors and Mechanical Inc.

WINDING # 37WGR734

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 865 RPM 460 V 3744M

TORQUES (LB-FT): PO=36.2 PU=20.1 LR=22.2 LRA=18.7





