

ABB BALDOR RELIANCE III

Customer information packet

EMVM3613C

3.7KW, 3450RPM, 3PH, 60HZ, D100LC, 3634M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D100LC
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	3.700 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.200 A @ 230.0 V 12.400 A @ 208.0 V 5.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	36H178
Base	
Status	PRD/A
Elec. spec.	36WGT202
Layout	36LYH178
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-07-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3634M
Mounting Arrangement	B14
Number of Poles	2
Overall Length	15.88 IN
Power Factor	93
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.103 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP2672L									
CAT.NO.	EMVM3613C								
SPEC.	36H178T202G1								
IEC FRAME	D100LC	KW		3.7					
VOLTS	230/460								
AMP	11.2/5.6								
RPM	3450			ENCL			TEFC		
HZ	60		PH		3		CL		F
SER.F.	1.15		DES		B		CODE		G
NEMA-NOM-EFF	88.5	I.P.		54					
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V						N/A	
DE	6206	ODE		6205					
SER. #									

Parts List

Part number	Description	Quantity
SA301016	SA 36H178T202G1	1.000 ea
RA288085	RA 36H178T202G1	1.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP1301A55	SPL PU ENDPLATE D110C-D112C W/SEAL	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2505A14	KEY, 8 X 7 MM 1.50 INCHES	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2672L	SS SUPER-E IEC UL CSA PREM CC	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 57404

Typical performance - not guaranteed values

Winding: 36WGT202-R012		Type: 3634M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (KW)	3.7	Full Load Torque	7.54 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	11.2/5.6	Breakdown Torque	45.7 LB-FT
R.P.M.	3450	Pull-up Torque	31 LB-FT
Hz	60 Phase	Locked-rotor Torque	38.1 LB-FT
NEMA Design Code	B KVA Code	Starting Current	36.4 A
Service Factor (S.F.)	1.15	No-load Current	2.23 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	1.8592 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	65°C
S.F. Amps		Temp. Rise @ S.F. Load	78°C

Load Characteristics 460 V, 60 Hz, 3.7 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	83	88	90	92	89
Efficiency	81	87.4	88.8	88.8	88.1	87.1	88.4
Speed	3571.6	3546.9	3521.5	3493.5	3464.6	3436.2	3476
Line amperes	2.74	3.63	4.75	6	7.36	8.7	6.82

ABB Motors and Mechanical Inc.

WINDING # 36WGT202

Typical performance - not guaranteed values.

3.7 KW 3 PH 60 HZ 3450 RPM 460 V 3634M

TORQUES (LB-FT): PO=45.7 PU=31 LR=38.1 LRA=36.4





