

ABB BALDOR RELIANCE III

Customer information packet

EMM3613

3.7KW, 3450RPM, 3PH, 60HZ, D100L, 3634M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D100L
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	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	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	P
Type	AC
Mech. spec.	36M715
Base	
Status	PRD/A
Elec. spec.	36WGT202
Layout	36LYM715
Eff. date	01-07-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-05-2010

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	No 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	B3
Number of Poles	2
Overall Length	15.76 IN
Power Factor	93
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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

NP1159L						
CAT.NO.	EMM3613					
SPEC.	36M715T202G1					
IEC FRAME	D100L	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					
DE	6206	ODE	6205			
SER. #						

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	3	Locked-rotor Torque		38.1 LB-FT
NEMA Design Code		B	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15		No-load Current		2.23 A
NEMA Nom. Eff.		88.5	Power Factor	93	Line-line Res. @ 25°C	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load
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





