

ABB BALDOR RELIANCE III

Customer information packet

EMVM3615D

3.7KW, 1750RPM, 3PH, 60HZ, D112MD, 3642M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D112MD
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	1800 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	13.400 A @ 230.0 V 13.900 A @ 208.0 V 6.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	36H938
Base	
Status	PRD/A
Elec. spec.	36WGS268
Layout	36LYH938
Eff. date	08-04-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-08-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3642M
Mounting Arrangement	B5
Number of Poles	4
Overall Length	17.27 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
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	1750 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.	EMVM3615D								
SPEC.	36H938S268G2								
IEC FRAME	D112MD	KW		3.7					
VOLTS	230/460								
AMP	13.4/6.7								
RPM	1750			ENCL			TEFC		
HZ	60		PH		3		CL		F
SER.F.	1.15		DES		B		CODE		J
NEMA-NOM-EFF	89.5	I.P.		54					
RATING	40C AMB-CONT								
CC	010A			USABLE AT 208V					N/A
DE	6206	ODE		6205					
SER. #									

AC Induction Motor Performance Data

Record # 57405

Typical performance - not guaranteed values

Winding: 36WGS268-R075			Type: 3642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (KW)		3.7	Full Load Torque		14.8 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		13.4/6.7	Breakdown Torque		52.2 LB-FT	
R.P.M.		1750	Pull-up Torque		31.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		34.9 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		49.1 A	
Service Factor (S.F.)		1.15	No-load Current		3.24 A	
NEMA Nom. Eff.		89.5 Power Factor	Line-line Res. @ 25°C		2.27 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C	
S.F. Amps			Temp. Rise @ S.F. Load		85°C	
			Locked-rotor Power Factor		39.8	
			Rotor inertia		0.391 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3.7 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	71	78	83	83	81
Efficiency	85	89.7	90.3	89.7	88.4	87	89
Speed	1789	1776	1762	1750	1733	1715	1740
Line amperes	3.55	4.29	5.41	6.62	7.88	9.57	7.42

ABB Motors and Mechanical Inc.

WINDING # 36WGS268

Typical performance - not guaranteed values.

3.7 KW 3 PH 60 HZ 1750 RPM 460 V 3642M

TORQUES (LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1





