

ABB BALDOR RELIANCE III

Customer information packet

VEJMM3212T

5HP, 3450RPM, 3PH, 60HZ, 182JM, 3622M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	182JM
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
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
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	12.800 A @ 208.0 V 6.000 A @ 460.0 V 12.000 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	36Q302
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LYQ302
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-28-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard 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	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.66 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP3553LUA									
CAT.NO.	VEJMM3212T								
SPEC.	36Q302S040G1								
HP	5								
VOLTS	230/460								
AMPS	12/6								
RPM	3450								
FRAME	182JM		HZ	60			PH	3	
SF	1.15	CODE	K	DES	A	CLASS	F		
NEMA NOM. EFF	86.5	PF	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	ODP	SN							
DE	6207		ODE	6205					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50Hz 5HP 190/380V 14.6/7.3A							SF1.0	

AC Induction Motor Performance Data

Record # 57977

Typical performance - not guaranteed values

Winding: 36WGS040-R018			Type: 3622M		Enclosure: ODP		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.66 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		12/6	Breakdown Torque		29.99 LB-FT		
R.P.M.		3450	Pull-up Torque		17.89 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		22.24 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		49.63 A
Service Factor (S.F.)		1.15	No-load Current		1.99 A		
NEMA Nom. Eff.		86.5	Power Factor	91	Line-line Res. @ 25°C		3.07 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps					Temp. Rise @ S.F. Load		42°C
					Locked-rotor Power Factor		49.2
					Rotor inertia		0.0988 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	85.9
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

ABB Motors and Mechanical Inc.

WINDING # 36WGS040

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

TORQUES (LB-FT) : PO=29.99 PU=17.89 LR=22.24 LRA=49.63





