

ABB BALDOR RELIANCE III

Customer information packet

VM8537

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	.500 HP @ 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 230.0 V 2.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	R
Type	AC
Mech. spec.	34K038
Base	
Status	PRD/A
Elec. spec.	34WG0232
Layout	34LYK038
Eff. date	04-16-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-14-2008

High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	63
Product Family	Dirty Duty (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 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

NP1261									
CAT.NO.	VM8537								
SPEC.	34K038-0232G2								
HP	.5								
VOLTS	230/460								
AMP	2/1								
RPM	3450								
FRAME	56C		HZ	60		PH		3	
SER.F.	1.25		CODE	L		DES	B		CL F
NEMA-NOM-EFF	68		PF	63					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEFC		SN						
	SFA 2.4/1.2								

AC Induction Motor Performance Data

Record # 36339

Typical performance - not guaranteed values

Winding: 34WG0232-R028			Type: 3410M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		0.75 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2/1	Breakdown Torque		3.4 LB-FT		
R.P.M.		3450	Pull-up Torque		2.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		3 LB-FT	
NEMA Design Code		B	KVA Code		L		
Service Factor (S.F.)		1.25	Starting Current		6 A		
NEMA Nom. Eff.		68	Power Factor		63		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		58°C
S.F. Amps		2.4/1.2			Temp. Rise @ S.F. Load		69°C
					Locked-rotor Power Factor		78
					Rotor inertia		0.0093 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	44	56	64	70	77	70
Efficiency	41.4	56.3	64	67.2	68.4	68.5	68.4
Speed	3563	3535	3501	3466	3432	3381	3432
Line amperes	0.91	0.97	1.01	1.1	1.2	1.33	1.2

ABB Motors and Mechanical Inc.

WINDING # 34WG0232

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

TORQUES (LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6



