



Customer information packet

VEM31111

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3416M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	.750 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	CURUSEEV
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	1.200 A @ 460.0 V 2.400 A @ 230.0 V 2.700 A @ 208.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a

Part detail

Revision	M
Type	AC
Mech. spec.	34F012
Base	
Status	PRD/A
Elec. spec.	34WGW719
Layout	34LYF012
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	10-03-2014

Insulation Class	B
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	3416M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.22 IN
Power Factor	80
Product Family	General Purpose
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	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

NP3155L											
CAT.NO.	VEM31111										
SPEC.	34F012W719G1										
HP	.75										
VOLTS	230/460										
AMP	2.4/1.2										
RPM	3450										
FRAME	56C		HZ	60			PH	3			
SER.F.	1.25	CODE	L	DES	B	CL	B				
F.L. AVG. EFF.	76.8	PF	80								
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN	SN									
	SFA 2.8/1.4										

AC Induction Motor Performance Data

Record # 47456

Typical performance - not guaranteed values

Winding: 34WGW719-R010			Type: 3416M		Enclosure: OPEN				
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.75		Full Load Torque		1.15 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		2.4/1.2		Breakdown Torque		5.62 LB-FT			
R.P.M.		3450		Pull-up Torque		3.98 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque	5.14 LB-FT		
NEMA Design Code		B		KVA Code		L	Starting Current	9.2 A	
Service Factor (S.F.)		1.25		No-load Current		0.611 A			
NEMA Nom. Eff.		76.8		Power Factor		80		Line-line Res. @ 25°C	20.283 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		17°C	
S.F. Amps		2.8/1.4		Temp. Rise @ S.F. Load		21°C			
				Locked-rotor Power Factor		69			
				Rotor inertia		0.0148 LB-FT2			

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	64	75	82	87	89	87
Efficiency	60.9	73.6	77.6	78.8	78.8	77.7	78.8
Speed	3558.7	3525.3	3490.1	3452.4	3410.2	3364.3	3410
Line amperes	0.661	0.769	0.92	1.1	1.3	1.54	1.3

ABB Motors and Mechanical Inc.

WINDING # 34WG719

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

TORQUES (LB-FT): PO=5.62 PU=3.98 LR=5.14 LRA=9.2





