

ABB BALDOR RELIANCE III

Customer information packet

VEM7034

1.5//1HP, 1760//1460RPM, 3PH, 60//50HZ, 56C

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 50 HZ 1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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	4.400 A @ 230.0 V 4.500 A @ 208.0 V 3.800 A @ 190.0 V 2.200 A @ 460.0 V 1.900 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	35E374
Base	
Status	NLA/A
Elec. spec.	35WGM493
Layout	35LYE374
Eff. date	01-18-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-30-2015

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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
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	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.17 IN
Power Factor	73
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	1460 rpm
	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	35E374M493G2								
CAT.NO.	VEM7034								
HP	1.5//1	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	4.4/2.2//3.8/1.9								
RPM	1760//1460								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	L				
RATING	40C AMB-CONT								
FRAME	56C	NEMA-NOM-EFF	86.5						
PF	73								
BLANK									

AC Induction Motor Performance Data

Record # 78446

Typical performance - not guaranteed values

Winding: 35WGM493-R004			Type: 3526M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5//1		Full Load Torque		4.46 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		4.4/2.2//3.8/1.9		Breakdown Torque		21.1 LB-FT	
R.P.M.		1760//1460		Pull-up Torque		10.5 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		14.9 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		19.3 A
Service Factor (S.F.)		1		No-load Current		1.52 A	
NEMA Nom. Eff.		86.5	Power Factor	73	Line-line Res. @ 25°C		10.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
				Locked-rotor Power Factor		51.5	
				Rotor inertia		0.154 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	48	63	73	79	84
Efficiency	73.9	83.2	86.3	86.9	86.5	85.5
Speed	1791	1782	1773	1763	1752	1740
Line amperes	1.57	1.72	1.93	2.22	2.57	2.93

ABB Motors and Mechanical Inc.

WINDING # 35WGM493

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1763 RPM 460 V 3526M

TORQUES (LB-FT): PO=21.1 PU=10.5 LR=14.9 LRA=19.3





