

ABB BALDOR RELIANCE III

Customer information packet

VM7006-I

.5//.33HP, 1740//1450RPM, 3PH, 60//50HZ, 56C

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPNV
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.330 HP @ 50 HZ .500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA UL
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	1.900 A @ 208.0 V 1.800 A @ 230.0 V 1.740 A @ 190.0 V .900 A @ 460.0 V .870 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	35X727
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYX727
Eff. date	04-16-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.14 IN
Power Factor	65
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm 1770 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

NP0977XPSL												
NO.								CC				
SER.								TEMP CODE		T3C		
SPEC.	35X727G155G1											
CAT.NO.												
HP	.5//.33											
VOLTS	230/460//190/380											
AMPS	1.8/.9//1.74/.87											
RPM	1770//1475				MOTOR WEIGHT							
HERTZ	60//50	PH	3	CL	F	DE BRG	6205					
SER.F.	1.15	DES	B	CODE	M	ODE BRG	6203					
FRAME	56C	GREASE		POLYREX EM								
RATING	40C AMB-CONT											
				NEMA-NOM-EFF				80	PF	65		
	SFA 2/1											

AC Induction Motor Performance Data

Record # 116237

Typical performance - not guaranteed values

Winding: 35WGG155-R031			Type: 3512M		Enclosure: XPNV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.5//.33		Full Load Torque		1.18 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		1.8/.9//1.74/.87		Breakdown Torque		5.5 LB-FT
R.P.M.		1770//1475		Pull-up Torque		3 LB-FT
Hz		60//50 Phase 3		Locked-rotor Torque		3.7 LB-FT
NEMA Design Code		B KVA Code M		Starting Current		6.1 A
Service Factor (S.F.)		1.15		No-load Current		0.77 A
NEMA Nom. Eff.		80 Power Factor 65		Line-line Res. @ 25°C		43.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		49°C
S.F. Amps		1.9/0.95//1.92/0.96		Temp. Rise @ S.F. Load		56°C
				Locked-rotor Power Factor		70.8
				Rotor inertia		0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	21	31	39	47	54	59	51
Efficiency	48.8	64.7	71.8	75.2	77	77.5	76.3
Speed	1493	1488	1483	1476	1470	1463	1472
Line amperes	0.77	0.79	0.83	0.88	0.94	1.02	0.916

ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1476 RPM 460 V 3512M

TORQUES (LB-FT) : PO=5.5 PU=3 LR=3.7 LRA=6.1





