

ABB BALDOR RELIANCE III

Customer information packet

CM7010-I

.75//.5HP, 1750//1460RPM, 3PH, 60//50HZ, 56C

Class - CLI GP C,D

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 C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 50 HZ .750 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 208.0 V 2.280 A @ 230.0 V 2.000 A @ 190.0 V 1.140 A @ 460.0 V 1.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	D
Type	AC
Mech. spec.	35X738
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYX738
Eff. date	04-16-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Efficiency @ 100% Load	82.5 %
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	1.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	X3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.28 IN
Power Factor	74
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	1470 rpm 1765 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.	35X738G069G1											
CAT.NO.												
HP	.75//.5											
VOLTS	230/460//190/380											
AMPS	2.42/1.21//2.16/1.08											
RPM	1765//1470				MOTOR WEIGHT							
HERTZ	60//50	PH	3	CL	F	DE BRG	6205					
SER.F.	1.15	DES	B	CODE	K	ODE BRG	6203					
FRAME	56C	GREASE		POLYREX EM								
RATING	40C AMB-CONT											
					NEMA-NOM-EFF			82.5	PF	74		
	SFA 2.18/1.09											

AC Induction Motor Performance Data

Record # 87338

Typical performance - not guaranteed values

Winding: 35WGG069-R019			Type: 3514M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		.75//.5		Full Load Torque		1.79 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		2.42/1.21//2/1		Breakdown Torque		7.1 LB-FT	
R.P.M.		1765//1470		Pull-up Torque		4.1 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		4.7 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		7.7 A
Service Factor (S.F.)		1.15		No-load Current		0.83 A	
NEMA Nom. Eff.		82.5	Power Factor	74	Line-line Res. @ 25°C		30.3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		21°C	
S.F. Amps		2.64/1.32		Temp. Rise @ S.F. Load		24°C	
				Locked-rotor Power Factor		72.2	
				Rotor inertia		0.101 lb-ft²	

Load Characteristics 380 V, 50 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	43	56	66	72	78	74
Efficiency	63.5	75.3	80	80.9	81.2	80.1	81.1
Speed	1493	1486	1479	1472	1465	1456	1465
Line amperes	0.84	0.89	0.97	1.07	1.21	1.36	1.09

ABB Motors and Mechanical Inc.

WINDING # 35WGG069

Typical performance - not guaranteed values.

0.5 HP 3 PH 50 HZ 1472 RPM 380 V 3514M

TORQUES (LB-FT): PO=7.1 PU=4.1 LR=4.7 LRA=7.7



