

ABB BALDOR RELIANCE III

Customer information packet

SPM30004

.25HP, 1150RPM, 3PH, 60HZ, 48, 3420M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	48
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	.250 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE C UR US
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	.650 A @ 460.0 V 1.300 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	B

Part Detail

Revision	E
Type	AC
Mech. spec.	34F002
Base	
Status	PRD/A
Elec. spec.	34WGR775
Layout	34LYF002
Eff. date	09-03-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-12-2023

Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	9.75 IN
Power Factor	41
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1150 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

NP4558A02LL

CAT #	SPM30004			WGT	27	LBS	
SER #				ENCL	OPEN		
SPEC	34F002R775			CC		IP	23
HP	.25			NEMA NOM. EFF			74
VOLTS	230/460			PF	41		
AMPS	1.3/.65						
RATING	40C AMB-CONT						
RPM	1150				PH	3	DES B
FRAME	48	HZ	60	CODE	N	CLASS	B
SER.F.	1.35	SF AMP	1.5/.75				
DE	6203		ODE	6203			
GREASE	POLYREX EM						
						QR	
YR							

AC Induction Motor Performance Data

Record # 100832

Preliminary Data Sheet

Winding: 34WGR775-R003			Type: 3420M		Enclosure: ODP		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.25	Full Load Torque		1.12 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		1.3/.65	Breakdown Torque		5.8 LB-FT		
R.P.M.		1150	Pull-up Torque		4.3 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		4.6 LB-FT		
NEMA Design Code		B	KVA Code		N	Starting Current	3.7 A
Service Factor (S.F.)		1.35	No-load Current		0.65 A		
NEMA Nom. Eff.		74	Power Factor		41	Line-line Res. @ 25°C	45.8 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		25°C		
S.F. Amps		1.5/.75	Temp. Rise @ S.F. Load		30°C		
			Locked-rotor Power Factor		59.9		
			Rotor inertia		0.0475 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	19	28	35	41	48	51	49
Efficiency	48.2	62.2	70	74.5	75.7	77.4	76.4
Speed	1188	1176	1165	1149	1139	1120	1131
Line amperes	0.65	0.69	0.72	0.75	0.78	0.84	0.804

ABB Motors and Mechanical Inc.

WINDING # 34WGR775

0.25 HP 3 PH 60 HZ 1150 RPM 460 V 3420M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=5.8 PU=4.3 LR=4.6 LRA=3.7





