



Customer information packet

SPM31101

.25HP, 1150RPM, 3PH, 60HZ, 56H, 3420M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	56H
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	C
Type	AC
Mech. spec.	34T123
Base	
Status	PRD/A
Elec. spec.	34WGR775
Layout	34LYT123
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-13-2023

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	11.75 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	0.625 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

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

Typical performance - not guaranteed values.

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

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





