



Customer information packet

VSPM3531

.25HP, 1150RPM, 3PH, 60HZ, 56C, 3420M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	CURUS WEEE
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	1.300 A @ 230.0 V .650 A @ 460.0 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	B
Type	AC
Mech. spec.	34N585
Base	
Status	PRD/A
Elec. spec.	34WGR775
Layout	34LYN585
Eff. date	03-04-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	03-07-2024

Inverter Code	Not Inverter
KVA Code	N
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	3420M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.34 IN
Power Factor	41
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

Nameplate

NP4558A02LL											
CAT #	VSPM3531			WGT	27		LBS				
SER #					ENCL	TEFC					
SPEC	34N585R775				CC	010A		IP	54		
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	56C	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 # 100830

Preliminary Data Sheet

Winding: 34WGR775-R001			Type: 3420M		Enclosure: TEFC			
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





