



Customer information packet

SPM31104

.333HP, 1740RPM, 3PH, 60HZ, 56H, 3416M, 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	.333 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	.520 A @ 460.0 V 1.040 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.5 a
Insulation Class	F

Part detail

Revision	B
Type	AC
Mech. spec.	34T123
Base	
Status	PRD/A
Elec. spec.	34WGR772
Layout	34LYT123
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-13-2023

Inverter Code	Not Inverter
KVA Code	L
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	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.75 IN
Power Factor	75
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	1740 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 #	SPM31104			WGT	24		LBS				
SER #				ENCL	ODP						
SPEC	34T123R772			CC			IP	22			
HP	.333			NEMA NOM. EFF					77		
VOLTS	230/460			PF	75						
AMPS	1.04/.52										
RATING	40C AMB-CONT										
RPM	1740			PH	3		DES	B			
FRAME	56H	HZ	60	CODE	L		CLASS	F			
SER.F.	1.35	SF AMP	1.3/.65								
DE	6203		ODE	6203							
GREASE	POLYREX EM										

AC Induction Motor Performance Data

Record # 100724

Preliminary Data Sheet

Winding: 34WGR772-R003			Type: 3416M		Enclosure: ODP		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.333	Full Load Torque		1.01 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		1.04/.52	Breakdown Torque		4.1 LB-FT		
R.P.M.		1740	Pull-up Torque		2.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		3.1 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		3.8 A
Service Factor (S.F.)		1.35	No-load Current		0.41 A		
NEMA Nom. Eff.		77	Power Factor	75	Line-line Res. @ 25°C		56.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		24°C
S.F. Amps		1.3/.65	Temp. Rise @ S.F. Load		39°C		
			Locked-rotor Power Factor		62.8		
			Rotor inertia		0.0381 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	62	71	78	82	80
Efficiency	61.3	72.9	76.7	78	77.7	76.3	77.1
Speed	1780	1765	1747	1728	1706	1681	1696
Line amperes	0.41	0.44	0.49	0.56	0.64	0.75	0.684

ABB Motors and Mechanical Inc.

WINDING # 34WGR772

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1740 RPM 460 V 3416M

TORQUES (LB-FT) : PO=4.1 PU=2.3 LR=3.1 LRA=3.8





