



Customer information packet

SPM30003

.25HP, 1735RPM, 3PH, 60HZ, 48, 3416M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
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	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	.400 A @ 460.0 V .800 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	0.4 a
Insulation Class	F

Part detail

Revision	C
Type	AC
Mech. spec.	34B051
Base	
Status	PRD/A
Elec. spec.	34WGR773
Layout	34LYB051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-12-2023

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	9.62 IN
Power Factor	64
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	1735 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 #	SPM30003			WGT	24		LBS					
SER #					ENCL	ODP						
SPEC	34B051R773				CC			IP	22			
HP	.25				NEMA NOM. EFF							74
VOLTS	230/460				PF	64						
AMPS	.8/.4											
RATING	40C AMB-CONT											
RPM	1735				PH	3		DES	B			
FRAME	48	HZ	60	CODE		L	CLASS		F			
SER.F.	1.35	SF AMP	1/.5									
DE	6203		ODE	6203								
GREASE	POLYREX EM											

AC Induction Motor Performance Data

Record # 100722

Preliminary Data Sheet

Winding: 34WGR773-R003			Type: 3416M		Enclosure: ODP		
Nameplate Data				460 V, 60 Hz: Unknown			
Rated Output (HP)		.25		Full Load Torque		0.76 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		.8/.4		Breakdown Torque		2.8 LB-FT	
R.P.M.		1735		Pull-up Torque		1.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		2.1 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		2.8 A
Service Factor (S.F.)		1.35		No-load Current		0.3 A	
NEMA Nom. Eff.		74	Power Factor	64	Line-line Res. @ 25°C		63.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		17°C	
S.F. Amps		1/.5		Temp. Rise @ S.F. Load		29°C	
				Locked-rotor Power Factor		58.8	
				Rotor inertia		0.0381 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	53	66	75	82	85	83
Efficiency	51.2	65.6	71.6	74.6	75.5	75.8	75.6
Speed	1778	1763	1748	1730	1711	1691	1703
Line amperes	0.31	0.33	0.37	0.42	0.47	0.54	0.498

ABB Motors and Mechanical Inc.

WINDING # 34WGR773

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1735 RPM 460 V 3416M

TORQUES (LB-FT): PO=2.8 PU=1.6 LR=2.1 LRA=2.8





