



Customer information packet

SPM31105

.33HP, 1140RPM, 3PH, 60HZ, 56H, 3421M, 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	.330 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	.700 A @ 460.0 V 1.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	F

Part detail

Revision	C
Type	AC
Mech. spec.	34T123
Base	
Status	PRD/A
Elec. spec.	34WGW146
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	K
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	3421M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.75 IN
Power Factor	55
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	1140 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 #	SPM31105			WGT	27	LBS			
SER #				ENCL		ODP			
SPEC	34T123W146			CC		IP		23	
HP	.33			NEMA NOM. EFF				75.5	
VOLTS	230/460			PF	55				
AMPS	1.4/.7								
RATING	40C AMB-CONT								
RPM	1140				PH	3	DES	B	
FRAME	56H	HZ	60	CODE		K	CLASS		F
SER.F.	1.35	SF AMP	1.6/.8						
DE	6203		ODE	6203					
GREASE	POLYREX EM								

AC Induction Motor Performance Data

Record # 100955

Typical performance - not guaranteed values

Winding: 34WGW146-R015			Type: 3421M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		1.56 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		1.4/.7	Breakdown Torque		5.3 LB-FT	
R.P.M.		1140	Pull-up Torque		3.8 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.35	No-load Current		0.52 A	
NEMA Nom. Eff.		75.5	Power Factor		55	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		1.6/.8	Temp. Rise @ S.F. Load		41°C	
			Locked-rotor Power Factor		58.8	
			Rotor inertia		0.0499 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	40	51	60	67	72	69
Efficiency	57.9	70.7	74.6	75.9	75.2	73.9	74.7
Speed	1187	1174	1160	1145	1127	1109	1120
Line amperes	0.54	0.57	0.63	0.7	0.78	0.88	0.82

ABB Motors and Mechanical Inc.

WINDING # 34WGW146

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1140 RPM 460 V 3421M

TORQUES (LB-FT): PO=5.3 PU=3.8 LR=4.8 LRA=3.6





