



Customer information packet

SPM3460

.5HP, 3450RPM, 3PH, 60HZ, 48, 3420M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	C UR US WEEE
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	.800 A @ 460.0 V 1.600 A @ 230.0 V 1.800 A @ 208.0 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	0.8 a

Part detail

Revision	C
Type	AC
Mech. spec.	34T121
Base	
Status	PRD/A
Elec. spec.	34WG3229
Layout	34LYT121
Eff. date	08-01-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-12-2023

Insulation Class	F
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	2
Overall Length	10.72 IN
Power Factor	74
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	1.25
Shaft Diameter	0.500 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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 # 100840

Typical performance - not guaranteed values

Winding: 34WG3229-R019			Type: 3420M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.5		Full Load Torque		0.75 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		1.6/.8		Breakdown Torque		4.7 LB-FT
R.P.M.		3450		Pull-up Torque		4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		4.4 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		7.4 A
Service Factor (S.F.)		1.25		No-load Current		0.49 A
NEMA Nom. Eff.		77	Power Factor	Line-line Res. @ 25°C		20.7 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C
S.F. Amps		1.8/.9		Temp. Rise @ S.F. Load		57°C
				Locked-rotor Power Factor		65.6
				Rotor inertia		0.0186 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	58	69	76	81	84	81
Efficiency	56.5	70.7	76.6	79.5	80.8	81.2	80.8
Speed	3568	3544	3519	3493	3466	3437	3466
Line amperes	0.52	0.58	0.67	0.77	0.88	1.01	0.88

ABB Motors and Mechanical Inc.

WINDING # 34WG3229

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3420M

TORQUES (LB-FT) : PO=4.7 PU=4 LR=4.4 LRA=7.4





