



Customer information packet

SPM3546T-G

1HP, 1770RPM, 3PH, 60HZ, 143T, 3522M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM 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	3.400 A @ 230.0 V 3.300 A @ 208.0 V 1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	A
Type	AC
Mech. spec.	35E6879
Base	
Status	PRD/A
Elec. spec.	35WGZ805
Layout	35LYE6879
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	04-08-2025

High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
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	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.29 IN
Power Factor	66
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	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP4423A01A01L													
CAT #	SPM3546T-G					WGT	37		LBS				
SPEC	35E6879Z805					ENCL	TEFC						
SER #						CC	010A		IP	54			
HP	1			MAG CUR			1-2.4/1.2						
VOLTS	208-230/460					NEMA NOM. EFF					85.5		
AMPS	3.3-3.4/1.7						PF	66					
RATING	40C AMB-CONT												
RPM	1770					MAX RPM			2700				
FRAME	143T		HZ	60		CODE	N		CLASS	H			
SER.F.	1.25	SF AMP		3.8/1.9			PH	3	DES	B			
DE	6205			ODE		6203							
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE				VPWM		CHP	60		TO	90		1.5:1
ID LOGO	WK2	0.159		CT	6	TO	60	10:1					
ID LOGO	SL HZ	1	VT	3	TO	60	20:1						

AC Induction Motor Performance Data

Record # 112325

Typical performance - not guaranteed values

Winding: 35WGZ805-R079			Type: 3522M		Enclosure: TEFC		
Nameplate Data			440 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		2.958 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.3-3.4/1.7	Breakdown Torque		14.3 LB-FT		
R.P.M.		1770	Pull-up Torque		7.26 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		9.12 LB-FT	
NEMA Design Code		B	KVA Code	N	Starting Current		15.9 A
Service Factor (S.F.)		1.25	No-load Current		1.23 A		
NEMA Nom. Eff.		85.5	Power Factor	66	Line-line Res. @ 25°C		14.421 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		37°C
S.F. Amps		3.8/1.9	Temp. Rise @ S.F. Load		45°C		
			Locked-rotor Power Factor		58.6		
			Rotor inertia		0.159 lb-ft²		

Load Characteristics 440 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	45	57	67	74	78	74
Efficiency	71.2	81.7	85.1	86.3	86.5	86.1	86.5
Speed	1795.5	1790	1784.1	1778	1771.4	1764.3	1771
Line amperes	1.26	1.35	1.51	1.7	1.93	2.18	1.93

ABB Motors and Mechanical Inc.

WINDING # 35WGZ805

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 440 V 3522M

TORQUES (LB-FT): PO=14.3 PU=7.26 LR=9.12 LRA=15.9





