



Customer information packet

SPNM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3530M, TENV, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV 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	4.400 A @ 208.0 V 4.600 A @ 230.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	C
Type	AC
Mech. spec.	35E6273
Base	
Status	PRD/A
Elec. spec.	35WGG178
Layout	35LYE6273
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-08-2023

High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.00 IN
Power Factor	72
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	No 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 #	SPNM3554T				WGT	48		LBS					
SPEC	35E6273G178				ENCL	TENV							
SER #					CC	010A		IP	54				
HP	1.5		MAG CUR		2.58/1.29								
VOLTS	230/460				NEMA NOM. EFF				87.5				
AMPS	4.6/2.3					PF	72						
RATING	40C AMB-CONT												
RPM	1770				MAX RPM		2700						
FRAME	145T	HZ	60		CODE	M	CLASS		F				
SER.F.	1.15	SF AMP	4.66/2.33				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	0.217	CT	6	TO	60	10:1						
ID LOGO	SL HZ	1	VT	3	TO	60	20:1						
						QR							
YR													

AC Induction Motor Performance Data

Record # 82076

Typical performance - not guaranteed values

Winding: 35WGG178-R001			Type: 3530M		Enclosure: TENV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		1.5		Full Load Torque		4.46 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		4.2/2.1		Breakdown Torque		21 LB-FT
R.P.M.		1770		Pull-up Torque		12.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		14.8 LB-FT
NEMA Design Code		B	KVA Code	M	Starting Current	
Service Factor (S.F.)		1.15		No-load Current		1.3 A
NEMA Nom. Eff.		86.5	Power Factor	76	Line-line Res. @ 25°C	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		80°C
S.F. Amps				Temp. Rise @ S.F. Load		95°C
				Locked-rotor Power Factor		55.2
				Rotor inertia		0.217 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	49	63	72	78	82	79
Efficiency	78.6	86.1	87.9	88.2	87.5	86.4	87.9
Speed	1792	1785	1778	1770	1762	1753	1764
Line amperes	1.36	1.53	1.79	2.11	2.47	2.9	2.33

ABB Motors and Mechanical Inc.

WINDING # 35WGG178

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3530M

TORQUES (LB-FT): PO=21 PU=12.2 LR=14.8 LRA=21.4





