



Customer information packet

FSWDM3551TP-E1

3HP, 1690RPM, 3PH, 60HZ, 145T, 3540M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 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	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	4.100 A @ 460.0 V 8.200 A @ 230.0 V 8.800 A @ 208.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part detail

Revision	A
Type	AC
Mech. spec.	35E4931
Base	
Status	PRD/A
Elec. spec.	35WGG301
Layout	35LYE4931
Eff. date	10-03-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	08-11-2025

Insulation Class	H
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.28 IN
Power Factor	80
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1690 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

NP4427ALY01											
CAT #	FSWDM3551TP-E1			WT	59		LBS				
SPEC	35E4931G301G1			ENCL	TEFC						
SER #				CC			IP	69			
HP	3			NEMA NOM. EFF							81.5
VOLTS	230/460										
AMPS	8.2/4.1					PF	80				
RATING	40C AMB-CONT										
RPM	1690										
FRAME	145T	HZ	60	CODE	H	CLASS		H			
SER.F.	1.00	SF AMP				PH	3	DES	D		
DE	6205		ODE	6205		YR					
LUBRICATION	POLYREX EM										
QR											

AC Induction Motor Performance Data

Record # 86945

Preliminary Data Sheet

Winding: 35WGG301-R001				Type: 3540M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3		Full Load Torque		9.54 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		8.6/4.3		Breakdown Torque		34.9 LB-FT	
R.P.M.		1655		Pull-up Torque		34.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		39.2 LB-FT	
NEMA Design Code		D	KVA Code	H	Starting Current		26 A
Service Factor (S.F.)		1		No-load Current		2.25 A	
NEMA Nom. Eff.		81.5	Power Factor	80	Line-line Res. @ 25°C		5.66 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		105°C	
				Locked-rotor Power Factor		70.6	
				Rotor inertia		0.289 lb-ft²	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	59	72	79	84	86
Efficiency	80.2	85.1	85	82.7	79.5	75.5
Speed	1768	1736	1701	1658	1610	1553
Line amperes	2.39	2.83	3.46	4.29	5.27	6.47

ABB Motors and Mechanical Inc.

WINDING # 35WGG301

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1655 RPM 460 V 3540M

TORQUES (LB-FT): PO=34.9 PU=34.8 LR=39.2 LRA=26





