



Customer information packet

VFSWDM3615T-E-G

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3646M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 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	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.000 A @ 230.0 V 13.800 A @ 208.0 V 6.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS953
Layout	36LY-000-277
Eff. date	02-09-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	10-08-2021

High Voltage Full Load Amps	6.5 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.89 IN
Power Factor	81
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 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

NP4292M01									
CAT.NO.	VFSWDM3615T-E-G								
SPEC.	36-0000-3587								
HP	5								
VOLTS	230/460								
AMPS	13/6.5								
R.P.M.	1750								
FRAME	184TC		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES.	B	CLASS	H		
NEMA NOM. EFF.	89.5		P.F.	81					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6206		ODE	6206					
ENCL	TEFC	SN							
	4:1CT, 10:1VT IP69								

AC Induction Motor Performance Data

Record # 77572

Typical performance - not guaranteed values

Winding: 36WGS953-R003		Type: 3646M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	15.2 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	13/6.5	Breakdown Torque	49.7 LB-FT
R.P.M.	1750	Pull-up Torque	27.7 LB-FT
Hz	60 Phase	Locked-rotor Torque	32.3 LB-FT
NEMA Design Code	B KVA Code	Starting Current	48.3 A
Service Factor (S.F.)	1.15	No-load Current	2.91 A
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	2.32 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	87°C
S.F. Amps		Temp. Rise @ S.F. Load	107°C
		Locked-rotor Power Factor	39
		Rotor inertia	0.428 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	81	83	84	82
Efficiency	86.6	90.4	90.7	90	88.4	86.6	89
Speed	1788	1776	1763	1748	1732	1714	1738
Line amperes	3.27	4.1	5.2	6.49	8.02	9.69	7.41

ABB Motors and Mechanical Inc.

WINDING # 36WGS953

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

TORQUES (LB-FT): PO=49.7 PU=27.7 LR=32.3 LRA=48.3





