



Customer information packet

VFSWDM3542-E-G

.75HP, 1770RPM, 3PH, 60HZ, 56C, 3520M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	.750 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	CURUSEEV NEMA PREMIUM WEEE
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	1.300 A @ 460.0 V 2.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a

Part detail

Revision	-
Type	AC
Mech. spec.	35E6050
Base	
Status	PRD/A
Elec. spec.	35WGK710
Layout	35LYE6050
Eff. date	04-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	04-08-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.78 IN
Power Factor	65
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 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

NP4427AAA01A											
CAT #	VFSWDM3542-E-G				WGT	37	LBS				
SPEC	35E6050K710				ENCL	TENV					
SER #					CC		IP	69			
HP	.75				MAG CUR	1.8/.9					
VOLTS	230/460				NEMA NOM. EFF					84	
AMPS	2.6/1.3					PF	65				
RATING	40C AMB-CONT										
RPM	1770				MAX RPM		2700				
FRAME	56C	HZ	60	CODE		P	CLASS		H		
SER.F.	1.15	SF AMP	2.8/1.4				PH	3	DES	B	
DE	6205		ODE	6205							
LUBRICATION	POLYREX EM										
ID LOGO	INVERTER TYPE			VPWM		CHP		TO			
ID LOGO	WK2	0.144	CT		TO						
ID LOGO	SL HZ	1	VT		TO						
						QR					
YR											

AC Induction Motor Performance Data

Record # 39345

Typical performance - not guaranteed values

Winding: 35WGP564-R005			Type: 3522M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.24 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.6/1.3	Breakdown Torque		11.1 LB-FT		
R.P.M.		1760	Pull-up Torque		5.62 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		8.1 LB-FT	
NEMA Design Code		B	KVA Code		N		
Service Factor (S.F.)		1.15	Starting Current		11.1 A		
NEMA Nom. Eff.		84	Power Factor		65		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps					Temp. Rise @ S.F. Load		69°C
					Locked-rotor Power Factor		51.3
					Rotor inertia		0.13 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	49	62	69	76	81	69
Efficiency	71.7	81	84.4	85.4	85.2	84.9	84.2
Speed	1790	1782	1774	1765	1755	1744	1752
Line amperes	0.808	0.891	1.01	1.19	1.36	1.54	1.39

ABB Motors and Mechanical Inc.

WINDING # 35WGP564

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1760 RPM 460 V 3522M

TORQUES (LB-FT): PO=11.1 PU=5.62 LR=8.1 LRA=11.1





