

ABB BALDOR RELIANCE III

Customer information packet

VFSWDM3541-E

.75HP, 3500RPM, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	2.100 A @ 208.0 V 2.000 A @ 230.0 V 1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGP070
Layout	35LYE4656
Eff. date	09-09-2026
CD Diagram	CD0005
Poles	02
Leads	9#18,0#,0#,0# Y
Proprietary	False
Created date	06-21-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ 0 AWG 9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.78 IN
Power Factor	85
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP4427ALA01												
CAT #	VFSWDM3541-E					WT	38	LBS				
SPEC	35E4656P070G1					ENCL	TENV					
SER #						CC	010A	IP	69			
HP	.75					MAG CUR	1/5					
VOLTS	208-230/460					NEMA NOM. EFF					86.5	
AMPS	2.1-2/1					PF	85					
RATING	40C AMB-CONT											
RPM	3500					MAX RPM	5400					
FRAME	56C	HZ	60		CODE	M	CLASS	H				
SER.F.	1.15	SF AMP					PH	3	DES	B		
DE	6205		ODE	6205								
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO	90	1.5:1	
ID LOGO	WK2	0.06	CT	15	TO	60	4:1					
ID LOGO	SL HZ	1.7	VT	3	TO	60	20:1					

AC Induction Motor Performance Data

Record # 20224

Typical performance - not guaranteed values

Winding: 35WGP070-R001			Type: 3520M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75		Full Load Torque		1.13 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		2.1-2/1		Breakdown Torque		5.62 LB-FT	
R.P.M.		3500		Pull-up Torque		2.68 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		4.74 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		10.4 A
Service Factor (S.F.)		1.15		No-load Current		0.45 A	
NEMA Nom. Eff.		86.5	Power Factor	85	Line-line Res. @ 25°C		16.6 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		53°C	
S.F. Amps				Temp. Rise @ S.F. Load		64°C	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	67	79	85	88	90	87
Efficiency	77.9	85	86.8	86.8	86	84.7	86.3
Speed	3570	3547	3519	3492	3462	3430	3474
Line amperes	0.509	0.626	0.788	0.966	1.17	1.39	1.09

ABB Motors and Mechanical Inc.

WINDING # 35WGP070

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3500 RPM 460 V 3520M

TORQUES (LB-FT) : PO=5.62 PU=2.68 LR=4.74 LRA=10.4





