

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3541-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	Rigid
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	M
Type	AC
Mech. spec.	35E4735
Base	
Status	PRD/A
Elec. spec.	35WGP070
Layout	35LYE4735
Eff. date	09-09-2026
CD Diagram	CD0005
Poles	02
Leads	9#18,0#,0#,0# Y
Proprietary	False
Created date	07-18-2017

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 #	CFSWDM3541-E					WT	41	LBS						
SPEC	35E4735P070G1					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	2.4-2.2/1.1					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							
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AC Induction Motor Performance Data

Record # 63249

Typical performance - not guaranteed values

Winding: 35WGP070-R004			Type: 3520M		Enclosure: TENV		
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	16.9 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		56°C
S.F. Amps		2.4-2.2/1.1	Temp. Rise @ S.F. Load		65°C		
			Locked-rotor Power Factor		51.2		
			Rotor inertia		0.0553 LB-FT2		

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	73.7	82.6	84.9	85.8	84.9	83.9	85.3
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





