

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3556-E

1HP, 1170RPM, 3PH, 60HZ, 56C, 3532M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM 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	3.800 A @ 230.0 V 3.800 A @ 208.0 V 1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	C
Type	AC
Mech. spec.	35E4741
Base	
Status	PRD/A
Elec. spec.	35WGG333
Layout	35LYE4741
Eff. date	08-28-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.83 IN
Power Factor	61
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 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

NP4427AAA01													
CAT #	CFSWDM3556-E					WT	47		LBS				
SPEC	35E4741G333G1					ENCL	TEFC						
SER #						CC	010A		IP	69			
HP	1		MAG CUR			2.7/1.35							
VOLTS	230/460					NEMA NOM. EFF					82.5		
AMPS	3.8/1.9					PF		61					
RATING	40C AMB-CONT												
RPM	1170					MAX RPM		1800					
FRAME	56C		HZ	60		CODE	L		CLASS	H			
SER.F.	1.15		SF AMP	4.02/2.01			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	0.232		CT	15		TO	60		4:1			
ID LOGO	SL HZ	1.25		VT	3		TO	60		20:1			
							QR						
YR													

AC Induction Motor Performance Data

Record # 87686

Preliminary Data Sheet

Winding: 35WGG333-R001			Type: 3532M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		4.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.8/1.9	Breakdown Torque		18.8 LB-FT		
R.P.M.		1170	Pull-up Torque		10.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		12 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		12.4 A
Service Factor (S.F.)		1.15	No-load Current		1.35 A		
NEMA Nom. Eff.		82.5	Power Factor	61	Line-line Res. @ 25°C		14.7 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		50°C
S.F. Amps					Temp. Rise @ S.F. Load		62°C
					Locked-rotor Power Factor		46
					Rotor inertia		0.232 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	40	52	61	68	72	65
Efficiency	67.6	78.2	81.6	82.5	82.1	81	82.3
Speed	1194	1188	1182	1175	1167	1159	1170
Line amperes	1.38	1.48	1.65	1.86	2.11	2.4	2.01

ABB Motors and Mechanical Inc.

WINDING # 35WGG333

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

TORQUES (LB-FT): PO=18.8 PU=10.3 LR=12 LRA=12.4





