

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3539-E

.5HP, 1175RPM, 3PH, 60HZ, 56C, 3522M, 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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	2.000 A @ 230.0 V 2.000 A @ 208.0 V 1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	D
Type	AC
Mech. spec.	35E4735
Base	
Status	PRD/A
Elec. spec.	35WGG337
Layout	35LYE4735
Eff. date	12-06-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
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
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	3522M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.78 IN
Power Factor	57
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	1175 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 #	CFSWDM3539-E						WT	37	LBS						
SPEC	35E4735G337G1						ENCL	TENV							
SER #							CC			IP	69				
HP	.5			MAG CUR				1.4-1.6/.8							
VOLTS	208-230/460						NEMA NOM. EFF				77				
AMPS	2/1						PF		57						
RATING	40C AMB-CONT														
RPM	1175						MAX RPM		1800						
FRAME	56C	HZ		60		CODE		M	CLASS		H				
SER.F.	1.15	SF AMP		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	0.159	CT		15	TO		60	4:1						
ID LOGO	SL HZ	1	VT		3	TO		60	20:1						

AC Induction Motor Performance Data

Record # 87741

Preliminary Data Sheet

Winding: 35WGG337-R001			Type: 3522M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		2.23 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		2/1	Breakdown Torque		8.81 LB-FT	
R.P.M.		1175	Pull-up Torque		4.83 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		5.16 LB-FT	
NEMA Design Code		B	Starting Current		6.64 A	
Service Factor (S.F.)		1.15	No-load Current		0.789 A	
NEMA Nom. Eff.		77	Power Factor		57	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C	
S.F. Amps		2.2/1.1	Temp. Rise @ S.F. Load		80°C	
			Locked-rotor Power Factor		50.7	
			Rotor inertia		0.16 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	36	48	56	63	68	73
Efficiency	63.7	75.6	79.4	81.4	81.5	80.6	79.6
Speed	1194	1190	1185	1180	1174	1167	1156
Line amperes	0.802	0.855	0.929	1.02	1.14	1.29	1.48

ABB Motors and Mechanical Inc.

WINDING # 35WGG337

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1175 RPM 460 V 3522M

TORQUES (LB-FT): PO=8.81 PU=4.83 LR=5.16 LRA=6.64





