

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3538-E-G

.5HP, 1770RPM, 3PH, 60HZ, 56C, 3512M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE CURUSEEV NEMA PREMIUM
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	1.900 A @ 208.0 V 1.800 A @ 230.0 V .900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	B
Type	AC
Mech. spec.	35E6048
Base	
Status	PRD/A
Elec. spec.	35WGZ944
Layout	35LYE6048
Eff. date	09-09-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-06-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	M
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	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.78 IN
Power Factor	65
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 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

NP4427ALAO1A												
CAT #	CFSWDM3538-E-G					WGT		LBS				
SPEC	35E6048Z944G1					ENCL	TENV					
SER #						CC	010A	IP	69			
HP	.5				MAG CUR	1.34-1.58/.79						
VOLTS	208-230/460					NEMA NOM. EFF					80	
AMPS	1.9-1.8/.9					PF		65				
RATING	40C AMB-CONT											
RPM	1770					MAX RPM		2700				
FRAME	56C	HZ	60			CODE	M	CLASS	H			
SER.F.	1.15	SF AMP	2.1-1.9/0.95				PH	3	DES	B		
DE	6205		ODE		6205							
LUBRICATION	POLYREX EM											
ID LOGO	INV TYPE:		VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.087	CT	3	TO	60	20:1					
ID LOGO	SL HZ	0.97	VT	3	TO	60	20:1					

AC Induction Motor Performance Data

Record # 36142

Typical performance - not guaranteed values

Winding: 35WGP563-R003			Type: 3516M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.49 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		1.8/.9	Breakdown Torque		8.65 LB-FT	
R.P.M.		1765	Pull-up Torque		4.54 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		5.09 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		7.54 A	
Service Factor (S.F.)		1.15	No-load Current		0.655 A	
NEMA Nom. Eff.	84 Power Factor	64	Line-line Res. @ 25°C		25.6 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		54°C	
S.F. Amps			Temp. Rise @ S.F. Load		61°C	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	41	53	63	70	75	67
Efficiency	65	77.6	81.5	83.8	84	83.4	83.9
Speed	1793	1783	1774	1765	1755	1745	1759
Line amperes	0.674	0.725	0.793	0.885	0.986	1.11	0.946

ABB Motors and Mechanical Inc.

WINDING # 35WGP563

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1765 RPM 460 V 3516M

TORQUES (LB-FT) : PO=8.65 PU=4.54 LR=5.09 LRA=7.54





