

ABB BALDOR RELIANCE III

Customer information packet

CSSWDM3538-H

0.5HP, 1770RPM, 3PH, 60HZ, 56HC, 3512M, TENV, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56HC
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	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 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	.900 A @ 460.0 V 1.800 A @ 230.0 V 1.900 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LY-000-350
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 IN
Power Factor	62
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1951A01											
CAT.NO.	CSSWDM3538-H										
SPEC.	35-0000-1379										
HP	.5										
VOLTS	208-230/460										
AMP	1.9-1.8/0.9										
RPM	1770										
FRAME	56HC			HZ		60		PH		3	
SER.F.	1.15		CODE		M	DES		B	CLASS		F
NEMA-NOM-EFF	80			PF		62					
RATING	40C AMB-CONT										
CC											
DE	6205			ODE		6203					
ENCL	TENV		SN								
	SFA 2.1-1.9/0.95										
	20:1CT 20:1VT										

Parts List

Part number	Description	Quantity
SA400544	SA 35-0000-1379	1.000 ea
RA391709	RA 35-0000-1379	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3100S24	THRUBOLT 8.625 LENGTH 1.250 TH LENGTH SS	4.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 ea
35EP1913A01	FRONT TENV 203 BRG NO GRSR S/P 9-2 (STAI	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW5002A103	RET RING N5002-206 WALDES KOHINOOR	1.000 ea
35EP1935A05	PULLEY 56HC ENCL 205 BRG WD4	1.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
35CB1004A01	15 CB W/.50 NPT @ 6 & #8-32 LID HOLES (S	1.000 ea
35GS1041	35 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	1.000 ea
51XN1032A08	10-32 X 0.500 HX WS SL SR ZN	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35CB4515	35 CB LID #304 STAINLESS STEEL	1.000 ea
36GS3008SP	WHITE NEOPRENE KO BOX LID GASKET	1.000 ea
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea
PE-0000012	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 45283

Typical performance - not guaranteed values

Winding: 35WGM303-R017			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		1.9-1.8/.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	N	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		24 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		54°C
S.F. Amps					Temp. Rise @ S.F. Load		61°C
					Locked-rotor Power Factor		55
					Rotor inertia		0.0946 LB-FT2

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 # 35WGM303

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





