

ABB BALDOR RELIANCE III

Customer information packet

RM3154A

1.5HP, 1720RPM, 3PH, 60HZ, 56H, 3518M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 230.0 V 4.800 A @ 208.0 V 3.200 A @ 208.0 V 2.500 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
Heater Indicator	No Heater

Part Detail

Revision	C
Type	AC
Mech. spec.	35N501
Base	
Status	PRD/A
Elec. spec.	35WGG311
Layout	35LYN501
Eff. date	11-12-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	12-19-2022

High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.42 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1720 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	ES

Winding Thermal 2

None

Nameplate

NP1257L									
CAT.NO.	RM3154A								
SPEC.	35N501G311G1								
HP	1.5								
VOLTS	208-230/460								
AMP	4.8-5/2.5								
RPM	1720								
FRAME	56H			HZ	60			PH	3
SER.F.	1.15		CODE	N		DES	B	CL	F
NEMA-NOM-EFF	80		PF	69					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPSB		SN						
	SFA 5.4-5.5/2.75								

Parts List

Part number	Description	Quantity
SA409939	SA 35N501G311G1	1.000 ea
RA401515	RA 35N501G311G1	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 ea
SP1003A06	TERM. BOARD, MODE 35 SW X H-23655 SPL CU	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1209A01	PU ENDPLATE, MACH	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
35BA4002B01	RESILIENT BASE, STAMPED	1.000 ea
35AD2005B01	BAFFLE PLATE,MOD 35-SLTD BAND MTR TDR	1.000 ea
35AD2008B01	AIR DEFLECTOR FOR SL BANDW/THERMAL IN FR	1.000 ea

HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 87521

Typical performance - not guaranteed values

Winding: 35WGG311-R001			Type: 3518M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.57 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		4.8-5/2.5	Breakdown Torque		16.13 LB-FT	
R.P.M.		1720	Pull-up Torque		12.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		14.8 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		15.6 A	
Service Factor (S.F.)		1.15	No-load Current		1.76 A	
NEMA Nom. Eff.		80 Power Factor	Line-line Res. @ 25°C		15.6 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		51°C	
S.F. Amps		5.4-5.5/2.75	Temp. Rise @ S.F. Load		61°C	
			Locked-rotor Power Factor		73.2	
			Rotor inertia		0.13 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	46	59	68	75	79	72
Efficiency	69.4	79.2	81.5	81.6	80.4	78.3	80.9
Speed	1780	1763	1743	1722	1699	1673	1708
Line amperes	1.79	1.95	2.19	2.52	2.91	3.39	2.75

ABB Motors and Mechanical Inc.

WINDING # 35WGG311

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1720 RPM 460 V 3518M

TORQUES (LB-FT): PO=16.13 PU=12.9 LR=14.8 LRA=15.6





