

ABB BALDOR RELIANCE III

Customer information packet

JL1323A

3HP, 3450RPM, 1PH, 60HZ, 56J, 3535LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.000 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	BN
Type	AC
Mech. spec.	35H992
Base	
Status	PRD/A
Elec. spec.	35WGY105
Layout	35LYH992
Eff. date	10-08-2024
CD Diagram	CD0661
Poles	02
Leads	2#14 A PH,2#18 B&J
Proprietary	False
Created date	06-22-2007

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3535LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.13 IN
Power Factor	93
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	3450 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	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	JL1323A										
SPEC.	35H992Y105										
HP	3										
VOLTS	230										
AMP	13										
RPM	3450										
FRAME	56J				HZ		60		PH		1
SER.F.	1.15		CODE	K	DES	L	CL	F			
NEMA-NOM-EFF	82.5		PF	93							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	OPEN	SN									

Parts List

Part number	Description	Quantity
SA025758	SA 35H992Y105	1.000 ea
RA021808	RA 35H992Y105	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3202A02SP	FR ENDPLATE, MACH	1.000 ea
SP1033A01	INSULATOR MODEL 35 TERM PANEL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
RM1010A01	35-968-1 VINYL CLS	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3402C00	MASTER DE,205 BRG,OPEN	1.000 ea
35AD2000	AIR BAFFLE - GALVANNEAL	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
35FH4500A02	DRIP COVER, STAMPED (W/ PRIMER	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
SP5066A03	MODEL 35 TERMINAL PANEL SWITCH WITH LEAD	1.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	2.000 ea
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0369	CONNECTION LABEL, SV, FIX, W&W/O TP, TER	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
PE-0000011	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 61978

Typical performance - not guaranteed values

Winding: 35WGY105-R004			Type: 3535LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		4.5 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		13	Breakdown Torque		15.5 LB-FT		
R.P.M.		3450	Pull-up Torque		13 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		13 LB-FT	
NEMA Design Code		L	KVA Code	K	Starting Current		108 A
Service Factor (S.F.)		1.15		No-load Current		5 A	
NEMA Nom. Eff.		82.5	Power Factor	93	Line-line Res. @ 25°C		0.617 Ω A Ph 2.54 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		49°C	
S.F. Amps				Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		77.4	
				Rotor inertia		0.0968 LB-FT2	

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	80	87	91	92	93	92
Efficiency	68.8	78.5	82.1	82.5	82.6	81	82.6
Speed	3578	3556	3535	3517	3487	3450	3499
Line amperes	6	7.9	10.3	13	16	19	14.8

ABB Motors and Mechanical Inc.

WINDING # 35WGY105

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 230 V 3535LC

TORQUES (LB-FT): PO=15.5 PU=13 LR=13 LRA=108





