

ABB BALDOR RELIANCE III

Customer information packet

JSM3120

1.5HP, 3450RPM, 3PH, 60HZ, 56YZ, 3424M, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56YZ
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	2.000 A @ 460.0 V 4.000 A @ 230.0 V 4.700 A @ 208.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	T
Type	AC
Mech. spec.	34L408
Base	
Status	PRD/A
Elec. spec.	34WGX480
Layout	34LYL408
Eff. date	02-23-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	08-05-2009

High Voltage Full Load Amps	2.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.77 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Pool Pump
Pulley Shaft Indicator	Ext Thread & Tapped Hole
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	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1256L											
CAT.NO.	JSM3120										
SPEC.	34L408X480G1										
HP	1.5										
VOLTS	230/460										
AMP	4/2										
RPM	3450										
FRAME	56YZ		HZ	60				PH	3		
SER.F.	1.15		CODE	L	DES	B		CLASS		B	
NEMA-NOM-EFF	81.5		PF	89							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN		SN								
	SFA 4.4/2.2										

Parts List

Part number	Description	Quantity
SA184373	SA 34L408X480G1	1.000 ea
RA172212	RA 34L408X480G1	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
SP1000A09	TERM BOARD, MODEL 34 SW, (RPL SP1000A01)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
RM1010A22	VINYL CAP, CAPLUG EZ-490-12, .490 DIA.	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3501A14E	ENDPLATE, MACH W/BLACK E-COATING	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34AD2007	BAFFLE PLATE INJECTION MOLD	1.000 ea
51XT0632A06	6-32X3/8 TY23 HXWS SLDSR	4.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1005	GASKET, TERM PLATE LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	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

AC Induction Motor Performance Data

Record # 7395

Typical performance - not guaranteed values

Winding: 34WGX480-R001			Type: 3424M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		2.3 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		4/2	Breakdown Torque		10.1 LB-FT			
R.P.M.		3450	Pull-up Torque		7.7 LB-FT			
Hz	60 Phase	3	Locked-rotor Torque		10 LB-FT			
NEMA Design Code		B	KVA Code	L	Starting Current		17 A	
Service Factor (S.F.)		1.15	No-load Current		1 A			
NEMA Nom. Eff.		81.5	Power Factor		89	Line-line Res. @ 25°C		0.922 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C	
S.F. Amps		4.4/2.2	Temp. Rise @ S.F. Load		40°C			

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	83	89	92	94	0
Efficiency	68	78.4	81.2	81.6	80.9	79.4	0
Speed	3545	3504	3460	3413	3364	3307	0
Line amperes	1.1	1.3	1.6	2	2.4	2.9	2.2

ABB Motors and Mechanical Inc.

WINDING # 34WGX480

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

TORQUES (LB-FT): PO=10.1 PU=7.7 LR=10 LRA=17





