

ABB BALDOR RELIANCE III

Customer information packet

CJL1307A

.75HP, 1725RPM, 1PH, 60HZ, 56J, 3428L, 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, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	10.200 A @ 115.0 V 5.100 A @ 230.0 V 6.000 A @ 208.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	B

Part Detail

Revision	C
Type	AC
Mech. spec.	34F497
Base	
Status	PRD/A
Elec. spec.	34WGW169
Layout	34LYF497
Eff. date	09-15-2026
CD Diagram	CD0203
Poles	04
Leads	5#18,1#14 #1TH
Proprietary	False
Created date	01-14-2025

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads With QC
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.90 IN
Power Factor	68
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	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L														
CAT.NO.	CJL1307A													
SPEC.	34F497W169G1													
HP	.75													
VOLTS	115/230													
AMP	10.2/5.1													
RPM	1725													
FRAME	56J			HZ		60		PH		1				
SER.F.	1.25		CODE	K	DES	N	CL	B						
NEMA-NOM-EFF	68		PF	68										
RATING	40C AMB-CONT													
CC														
DE	6203		ODE	6203										
ENCL	OPEN	SN												
SFA 11.4/5.7														

AC Induction Motor Performance Data

Record # 6904

Typical performance - not guaranteed values

Winding: 34WGW169-R001			Type: 3428L		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		10.2/5.1	Breakdown Torque		5.5 LB-FT		
R.P.M.		1725	Pull-up Torque		4.5 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		9.5 LB-FT	
NEMA Design Code		N	KVA Code		K		
Service Factor (S.F.)		1.25	Starting Current		31 A		
NEMA Nom. Eff.		68	Power Factor		68		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		74°C
S.F. Amps		11.4/5.7	Line-line Res. @ 25°C		3.1 Ω A Ph 1.64 Ω B Ph		
			Temp. Rise @ S.F. Load		90°C		

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	63	70	76	80	76
Efficiency	45.4	59.1	62.7	66.7	66.8	64.4	66.8
Speed	1783	1770	1754	1737	1717	1692	1717
Line amperes	4.05	4.25	4.8	5.3	6.1	7	6.1

ABB Motors and Mechanical Inc.

WINDING # 34GW169

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428L

TORQUES (LB-FT) : PO=5.5 PU=4.5 LR=9.5 LRA=31





