

# **ABB BALDOR RELIANCE III**

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## **Customer information packet**

VL3509

1HP, 3450RPM, 1PH, 60HZ, 56C, 3520L, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	56C
<b>Frame Material</b>	Steel
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	None
<b>Haz Area Division</b>	Not Applicable
<b>Motor Letter Type</b>	Cap Start, Induction Run
<b>Output @ Frequency</b>	1.000 HP @ 60 HZ
<b>Phase</b>	1
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	115.0 V @ 60 HZ 230.0 V @ 60 HZ
<b>Agency Approvals</b>	C UR US
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	No Mounting
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	11.800 A @ 115.0 V 5.900 A @ 230.0 V 6.100 A @ 208.0 V
<b>Design Code</b>	N
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	68.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	5.9 a

**Part Detail**

<b>Revision</b>	AS
<b>Type</b>	AC
<b>Mech. spec.</b>	35C013
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	35WGX964
<b>Layout</b>	35LYC013
<b>Eff. date</b>	12-17-2024
<b>CD Diagram</b>	CD0001
<b>Poles</b>	02
<b>Leads</b>	4#16 A PH,2#18 B PH
<b>Proprietary</b>	False
<b>Created date</b>	06-21-2007

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	4 @ 16 AWG, A PH
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3520L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	12.22 IN
<b>Power Factor</b>	82
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1256L</b>										
<b>CAT.NO.</b>	VL3509									
<b>SPEC.</b>	35C013X964									
<b>HP</b>	1									
<b>VOLTS</b>	115/230									
<b>AMP</b>	11.8/5.9									
<b>RPM</b>	3450									
<b>FRAME</b>	56C		<b>HZ</b>	60			<b>PH</b>	1		
<b>SER.F.</b>	1.25	<b>CODE</b>	K	<b>DES</b>	N	<b>CLASS</b>		B		
<b>NEMA-NOM-EFF</b>	68	<b>PF</b>	82							
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>										
<b>DE</b>	6205		<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>								
	SFA 14/7									

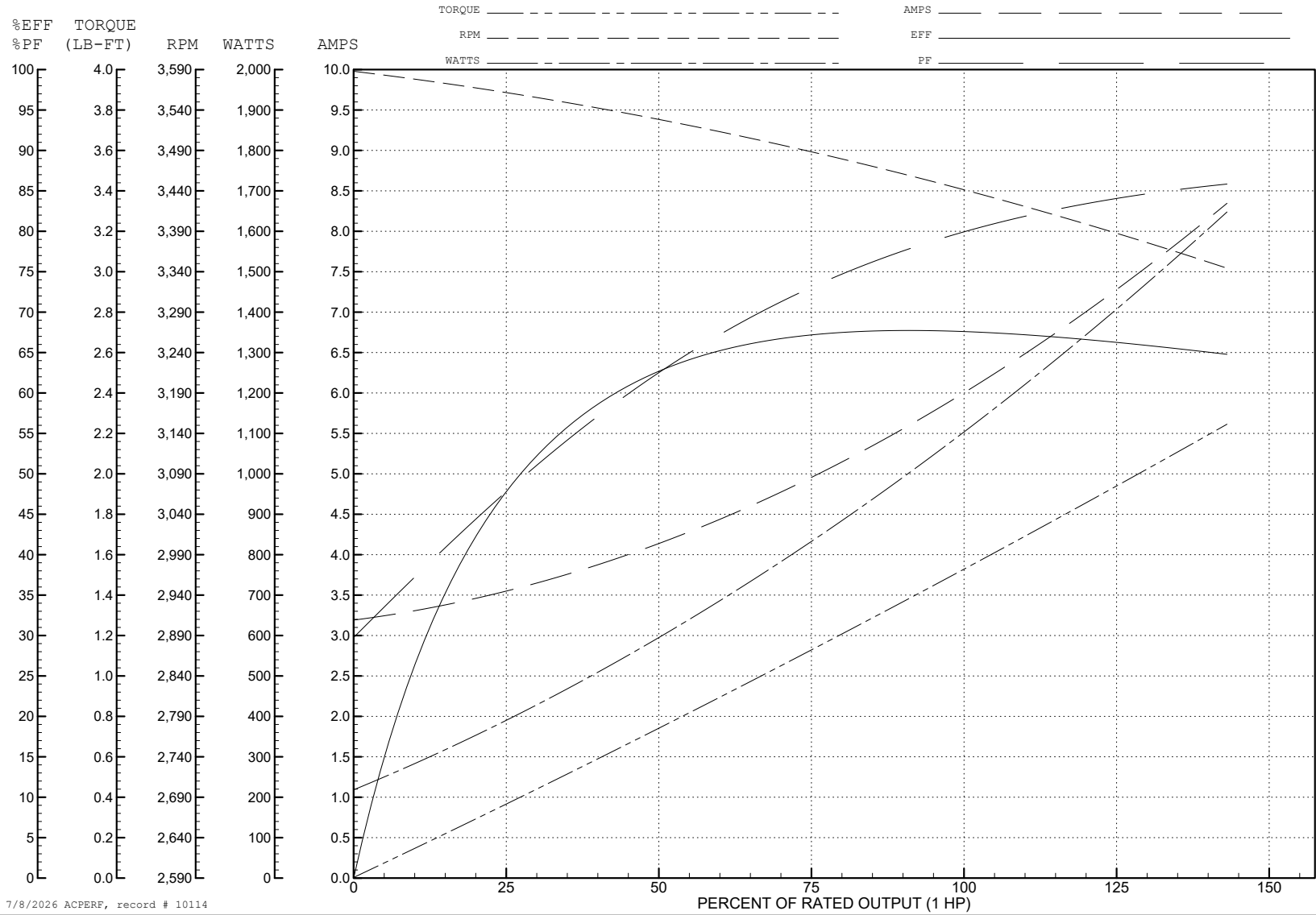
ABB Motors and Mechanical Inc.

WINDING # 35WGX964

Typical performance - not guaranteed values.

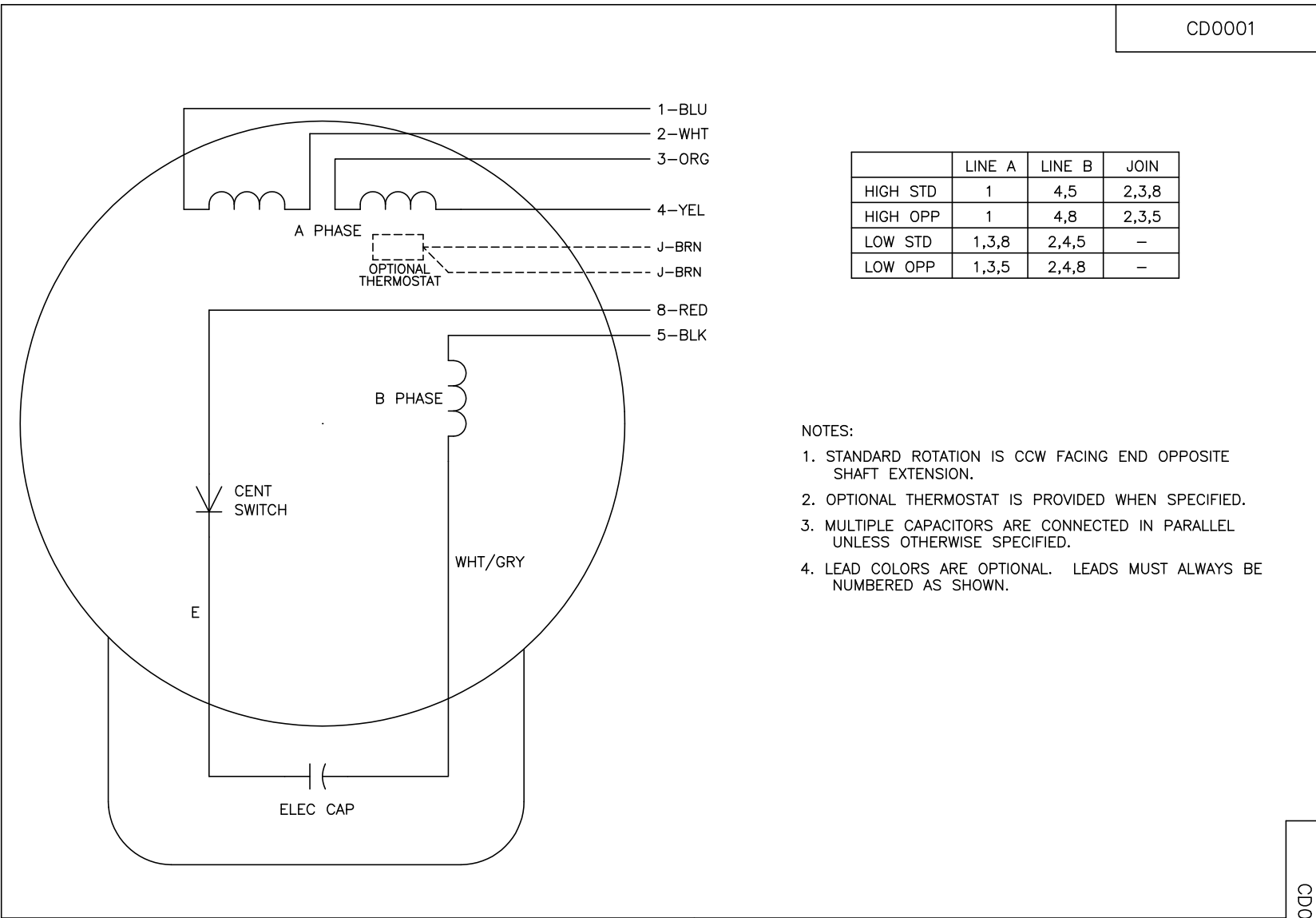
1 HP 1 PH 60 HZ 3450 RPM 230 V 3520L

TORQUES (LB-FT): PO=4.25 PU=3.5 LR=4.75 LRA=38





CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	-
LOW OPP	1,3,5	2,4,8	-

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
  3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, 6 LEADS