

# ABB BALDOR RELIANCE III

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## Customer information packet

### SPM31159

1.5HP, 1175RPM, 3PH, 60HZ, 182T, 3640M, ODP, F1

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	ODP
<b>Frame</b>	182T
<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>	Three Phase
<b>Output @ Frequency</b>	1.500 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1200 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	230.0 V @ 60 HZ 460.0 V @ 60 HZ
<b>Agency Approvals</b>	WEEE NEMA PREMIUM 4
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	2.500 A @ 460.0 V 5.000 A @ 230.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	88.5 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	2.5 a
<b>Insulation Class</b>	F

**Part Detail**

<b>Revision</b>	C
<b>Type</b>	AC
<b>Mech. spec.</b>	36P395
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	36WGR643
<b>Layout</b>	36LYP395
<b>Eff. date</b>	06-07-2024
<b>CD Diagram</b>	CD0005
<b>Poles</b>	06
<b>Leads</b>	9#16
<b>Proprietary</b>	False
<b>Created date</b>	09-07-2023

<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	M
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Max Speed</b>	1800 rpm
<b>Motor Lead Quantity/Wire Size</b>	9 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3640M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	16.49 IN
<b>Power Factor</b>	63
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1175 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**

**NP4423A01A01L**

<b>CAT #</b>	SPM31159		<b>WGT</b>	90	<b>LBS</b>	
<b>SPEC</b>	36P395R643		<b>ENCL</b>	ODP		
<b>SER #</b>			<b>CC</b>	010A	<b>IP</b>	23
<b>HP</b>	1.5	<b>MAG CUR</b>	3.4/1.7			
<b>VOLTS</b>	230/460		<b>NEMA NOM. EFF</b>	88.5		
<b>AMPS</b>	5/2.5		<b>PF</b>	63		
<b>RATING</b>	40C AMB-CONT					
<b>RPM</b>	1175		<b>MAX RPM</b>	1800		
<b>FRAME</b>	182T	<b>HZ</b>	60	<b>CODE</b>	M	<b>CLASS</b> F
<b>SER.F.</b>	1.15	<b>SF AMP</b>	5.5/2.75		<b>PH</b>	3 <b>DES</b> B
<b>DE</b>	6206		<b>ODE</b>	6205		
<b>LUBRICATION</b>	POLYREX EM					
<b>ID LOGO</b>	<b>INVERTER TYPE</b>	<b>VPWM</b>	<b>CHP</b>	60	<b>TO</b>	90 1.5:1
<b>ID LOGO</b>	<b>WK2</b> 0.376	<b>CT</b> 6	<b>TO</b>	60	10:1	
<b>ID LOGO</b>	<b>SL HZ</b> 1.25	<b>VT</b> 3	<b>TO</b>	60	20:1	
<b>YR</b>			<b>QR</b>			

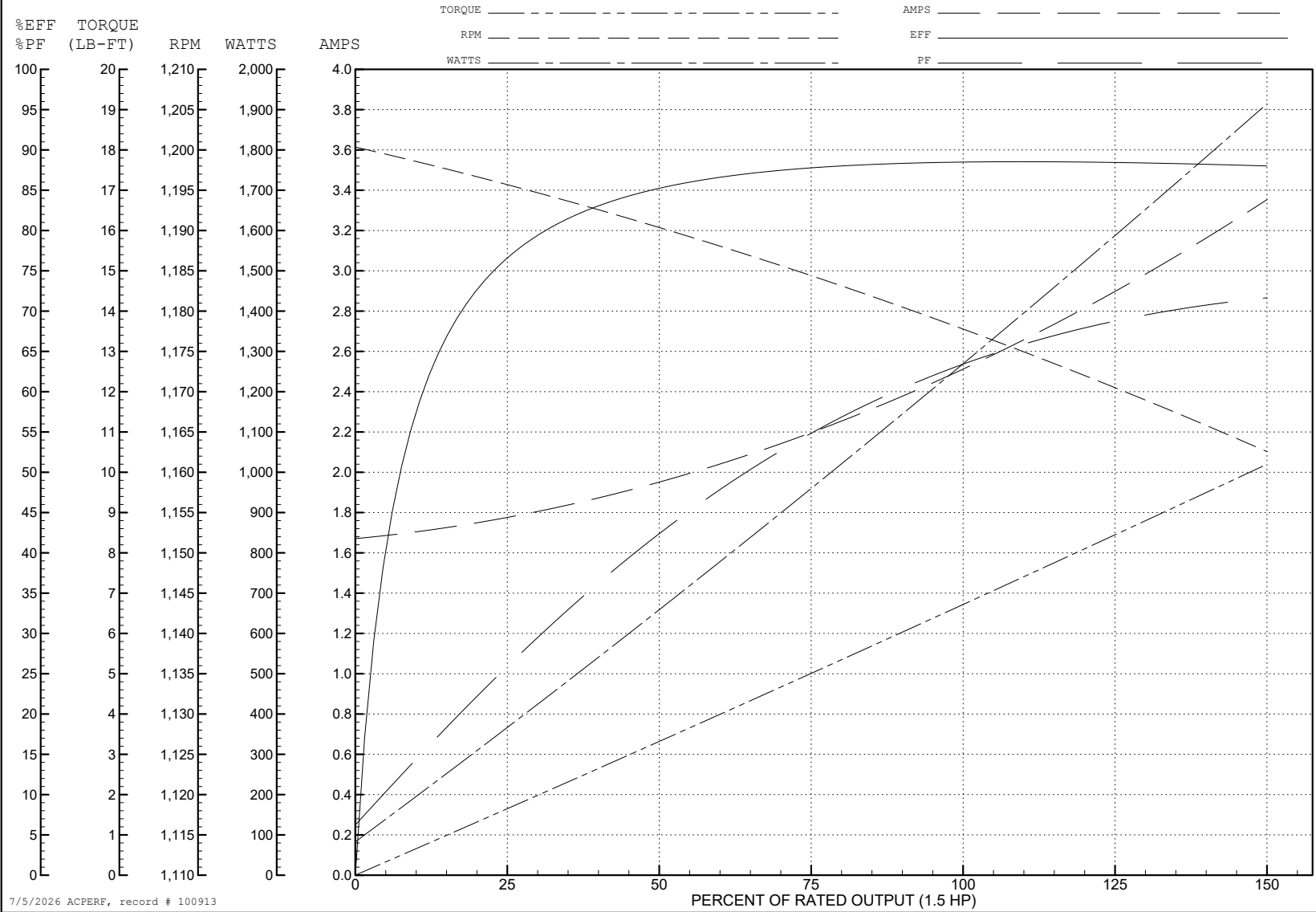
ABB Motors and Mechanical Inc.

WINDING # 36WGR643

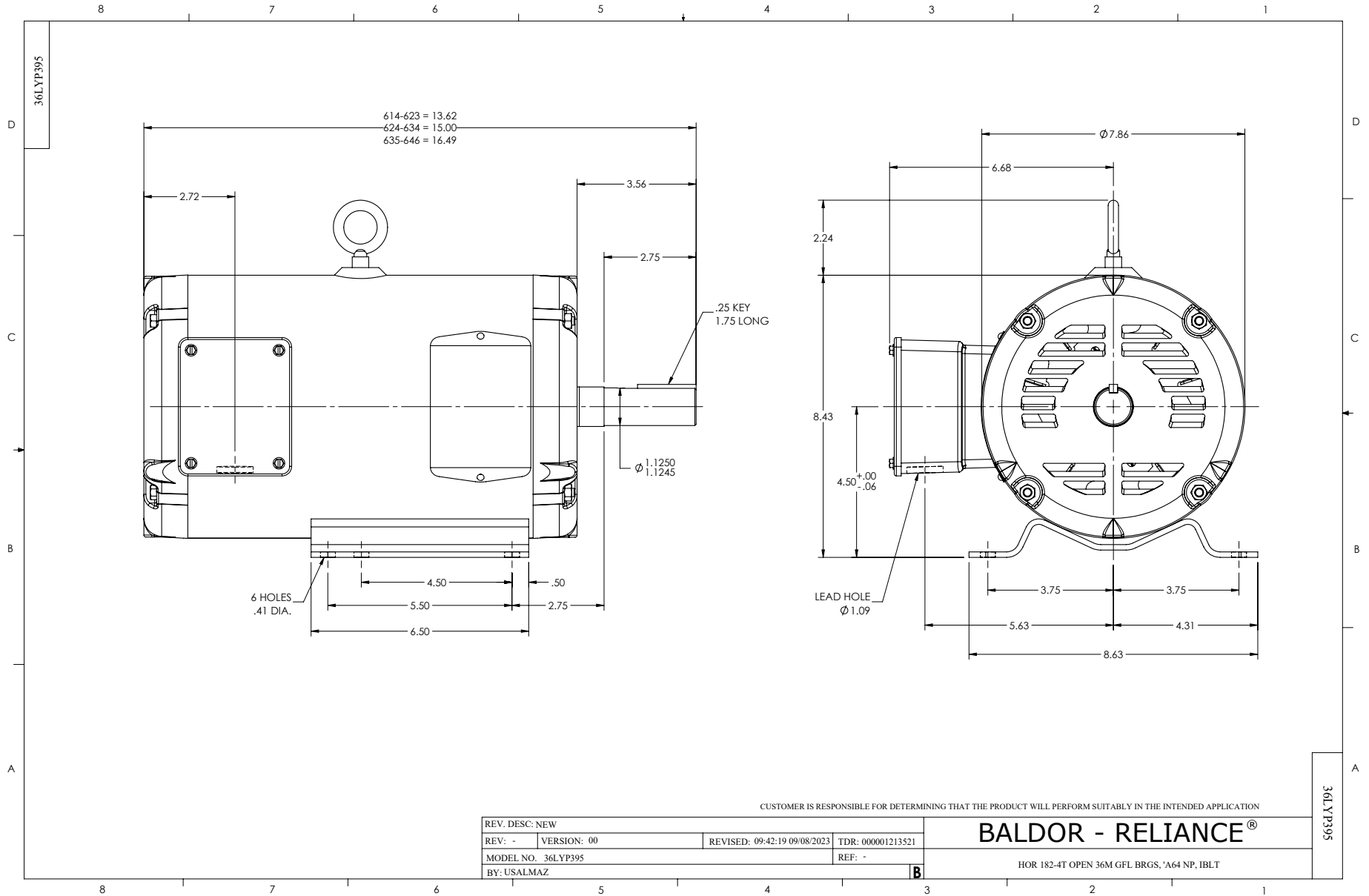
1.5 HP 3 PH 60 HZ 1175 RPM 460 V 3640M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=28.1 PU=15 LR=19.6 LRA=19.2



7/5/2026 ACPERF, record # 100913



CD0005

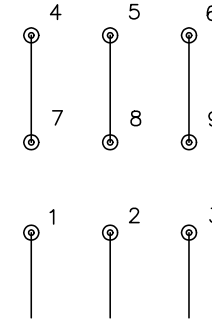


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**NOTES:**

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

500000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS