

# ABB BALDOR RELIANCE III



## Customer information packet

DM3538

.5HP, 1725RPM, 3PH, 60HZ, 56, 3420M, TEFC, F1, N

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	56
<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>	.500 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1800 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ 230.0 V @ 60 HZ
<b>Agency Approvals</b>	CCSA US UR
<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>Constant Torque Speed Range</b>	6
<b>Current @ Voltage</b>	1.600 A @ 208.0 V 1.800 A @ 230.0 V .900 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	75.5 %
<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

**Part Detail**

<b>Revision</b>	Q
<b>Type</b>	AC
<b>Mech. spec.</b>	34M812
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	34WG0097
<b>Layout</b>	34LYM812
<b>Eff. date</b>	05-21-2025
<b>CD Diagram</b>	CD0005
<b>Poles</b>	04
<b>Leads</b>	9#18
<b>Proprietary</b>	False
<b>Created date</b>	04-25-2016

<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	0.9 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	M
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3420M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	11.35 IN
<b>Power Factor</b>	69
<b>Product Family</b>	Dirty Duty Plus
<b>Pulley End Bearing Type</b>	Sealed Bearing
<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>	1.25
<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>	1725 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>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP3659</b>	
<b>CAT.NO.</b>	DM3538
<b>SPEC.</b>	34M812-0097G1 <b>ENCL</b> TEFC
<b>FRAME</b>	56 <b>H.P.</b> .5
<b>VOLTS</b>	230/460
<b>AMPS</b>	1.8/9 <b>IP</b> 56
<b>R.P.M.</b>	1725
<b>HZ.</b>	60 <b>PH.</b> 3 <b>CLASS</b> F
<b>SER.F.</b>	1.25 <b>DES.</b> B <b>CC</b>
<b>NEMA NOM. EFF.</b>	75.5
<b>RATING</b>	40C AMB-CONT
<b>DE</b>	6203 <b>ODE</b> 6203
<b>GREASE</b>	POLYREX EM
<b>SN</b>	50C AT 1.0 SF SFA 2/1

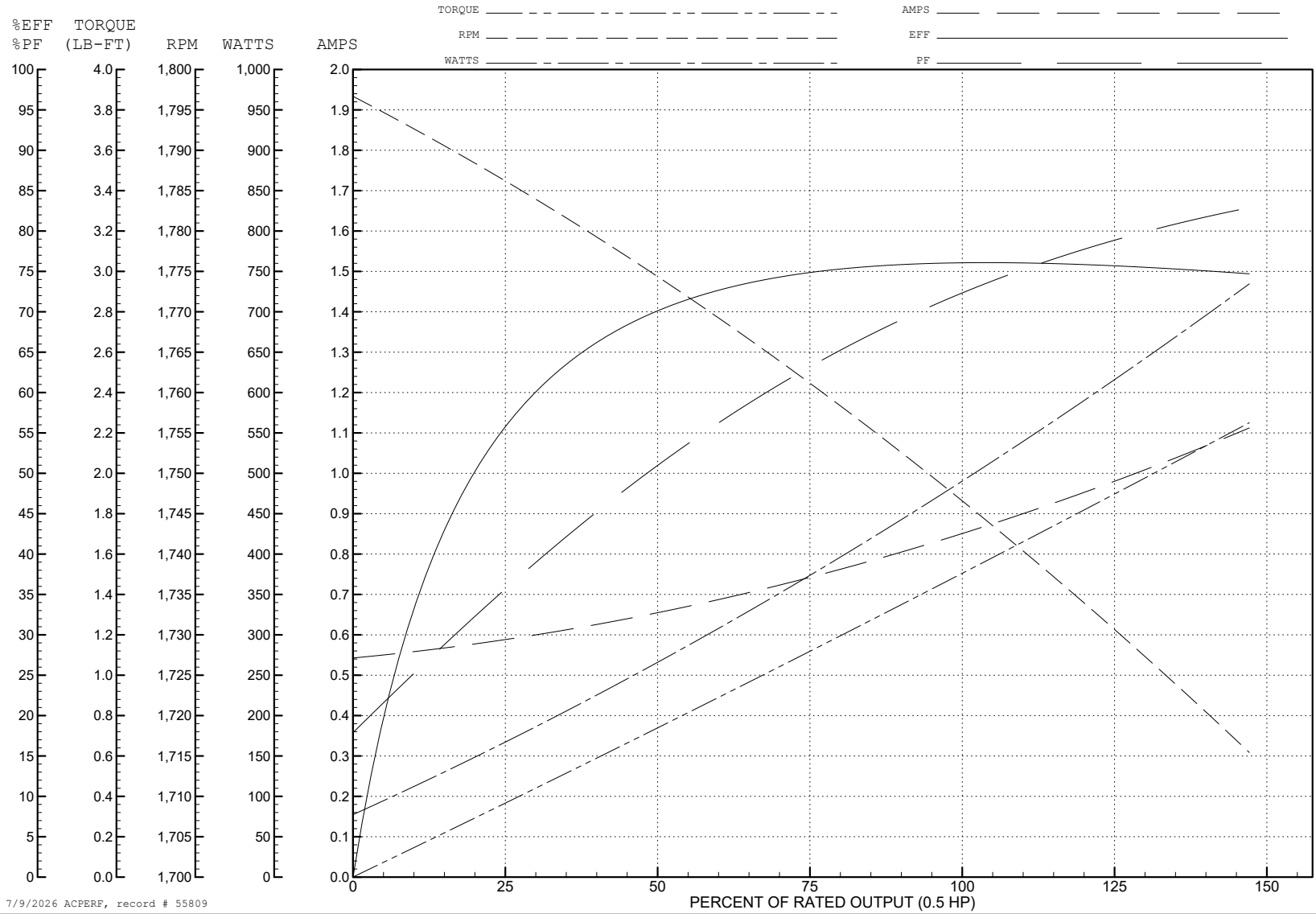
ABB Motors and Mechanical Inc.

WINDING # 34WG0097

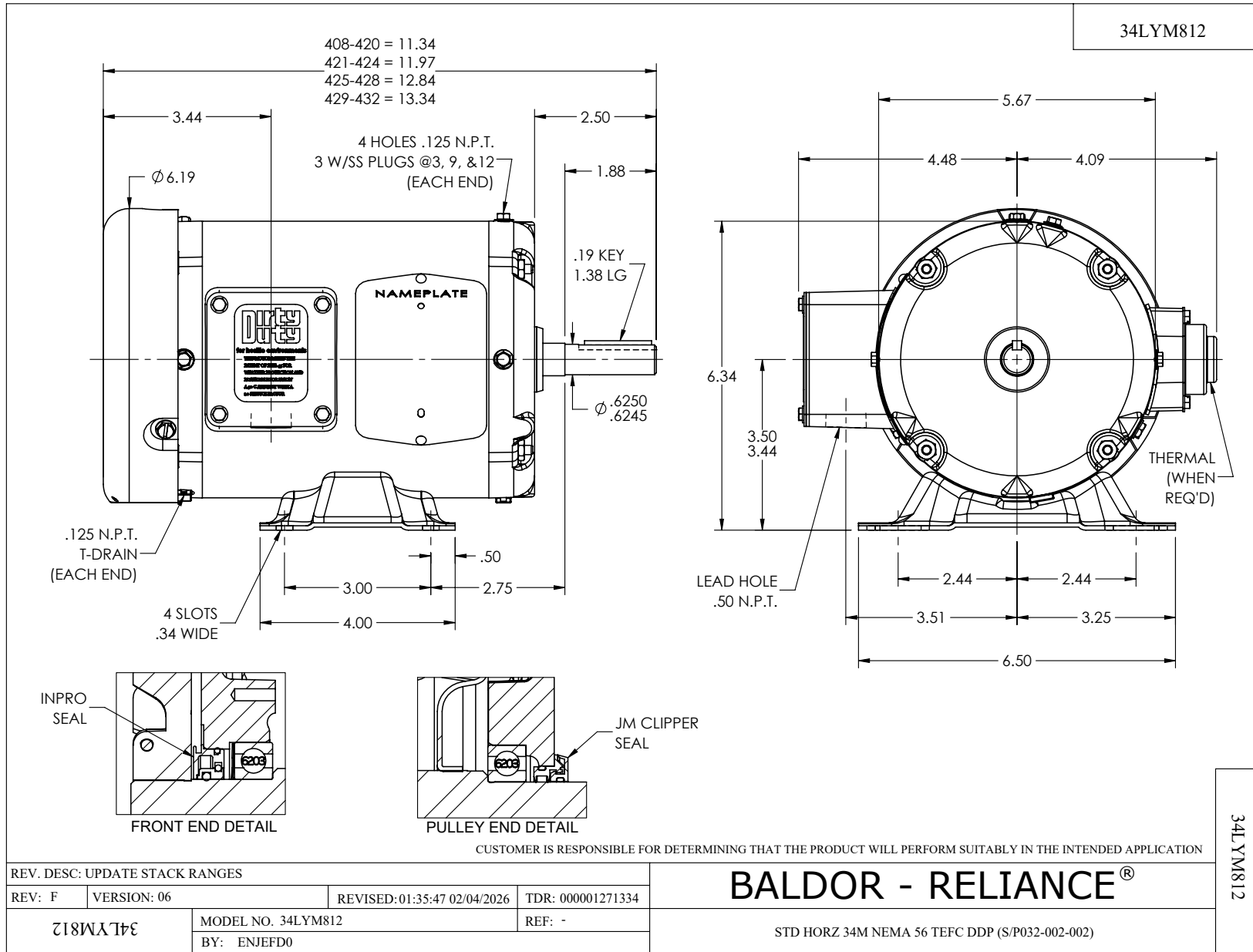
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=6.8 PU=4.6 LR=5.8 LRA=7



7/9/2026 ACPERF, record # 55809



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