

# ABB BALDOR RELIANCE III

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## Customer information packet

VM3537-5

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, 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>              | Three Phase               |
| <b>Output @ Frequency</b>             | .500 HP @ 60 HZ           |
| <b>Phase</b>                          | 3                         |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ          |
| <b>Voltage @ Frequency</b>            | 575.0 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>              | .800 A @ 575.0 V          |
| <b>Design Code</b>                    | B                         |
| <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>    | 0.8 a                     |
| <b>Insulation Class</b>               | B                         |
| <b>Inverter Code</b>                  | Not Inverter              |
| <b>KVA Code</b>                       | J                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | Z          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 34A063     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WG0487   |
| <b>Layout</b>       | 34LYA063   |
| <b>Eff. date</b>    | 02-10-2025 |
| <b>CD Diagram</b>   | CD0006     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 3#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

|                                      |                     |
|--------------------------------------|---------------------|
| <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> | 3 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3410M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 2                   |
| <b>Overall Length</b>                | 11.35 IN            |
| <b>Power Factor</b>                  | 63                  |
| <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>      | VM3537-5     |             |      |            |   |              |   |  |  |
| <b>SPEC.</b>        | 34A63-487    |             |      |            |   |              |   |  |  |
| <b>HP</b>           | .5           |             |      |            |   |              |   |  |  |
| <b>VOLTS</b>        | 575          |             |      |            |   |              |   |  |  |
| <b>AMP</b>          | .8           |             |      |            |   |              |   |  |  |
| <b>RPM</b>          | 3450         |             |      |            |   |              |   |  |  |
| <b>FRAME</b>        | 56C          | <b>HZ</b>   | 60   | <b>PH</b>  | 3 |              |   |  |  |
| <b>SER.F.</b>       | 1.25         | <b>CODE</b> | J    | <b>DES</b> | B | <b>CLASS</b> | B |  |  |
| <b>NEMA-NOM-EFF</b> | 68           | <b>PF</b>   | 63   |            |   |              |   |  |  |
| <b>RATING</b>       | 40C AMB-CONT |             |      |            |   |              |   |  |  |
| <b>CC</b>           |              |             |      |            |   |              |   |  |  |
| <b>DE</b>           | 6203         | <b>ODE</b>  | 6203 |            |   |              |   |  |  |
| <b>ENCL</b>         | TEFC         | <b>SN</b>   |      |            |   |              |   |  |  |
|                     | SFA 1        |             |      |            |   |              |   |  |  |

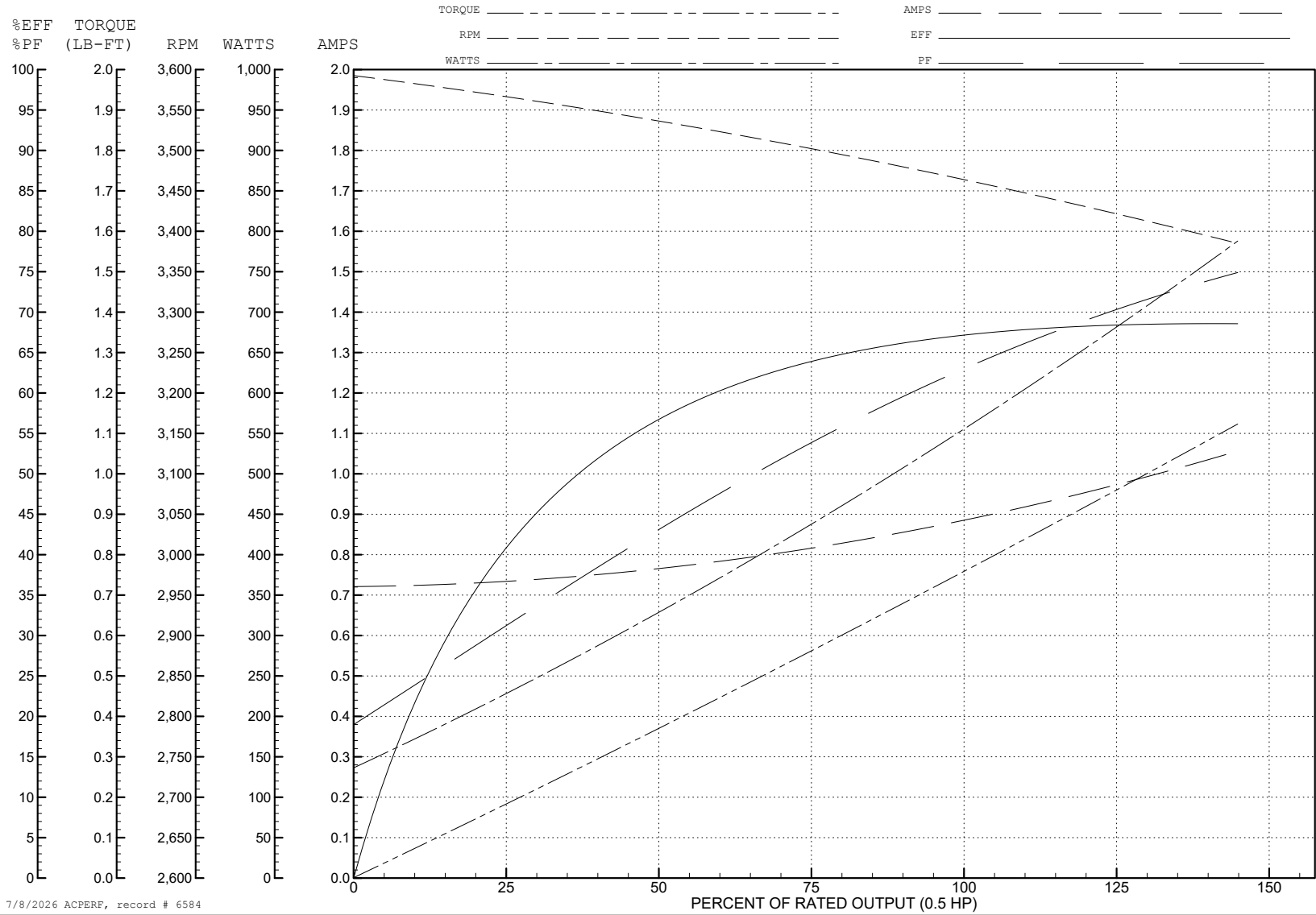
ABB Motors and Mechanical Inc.

WINDING # 34WG0487

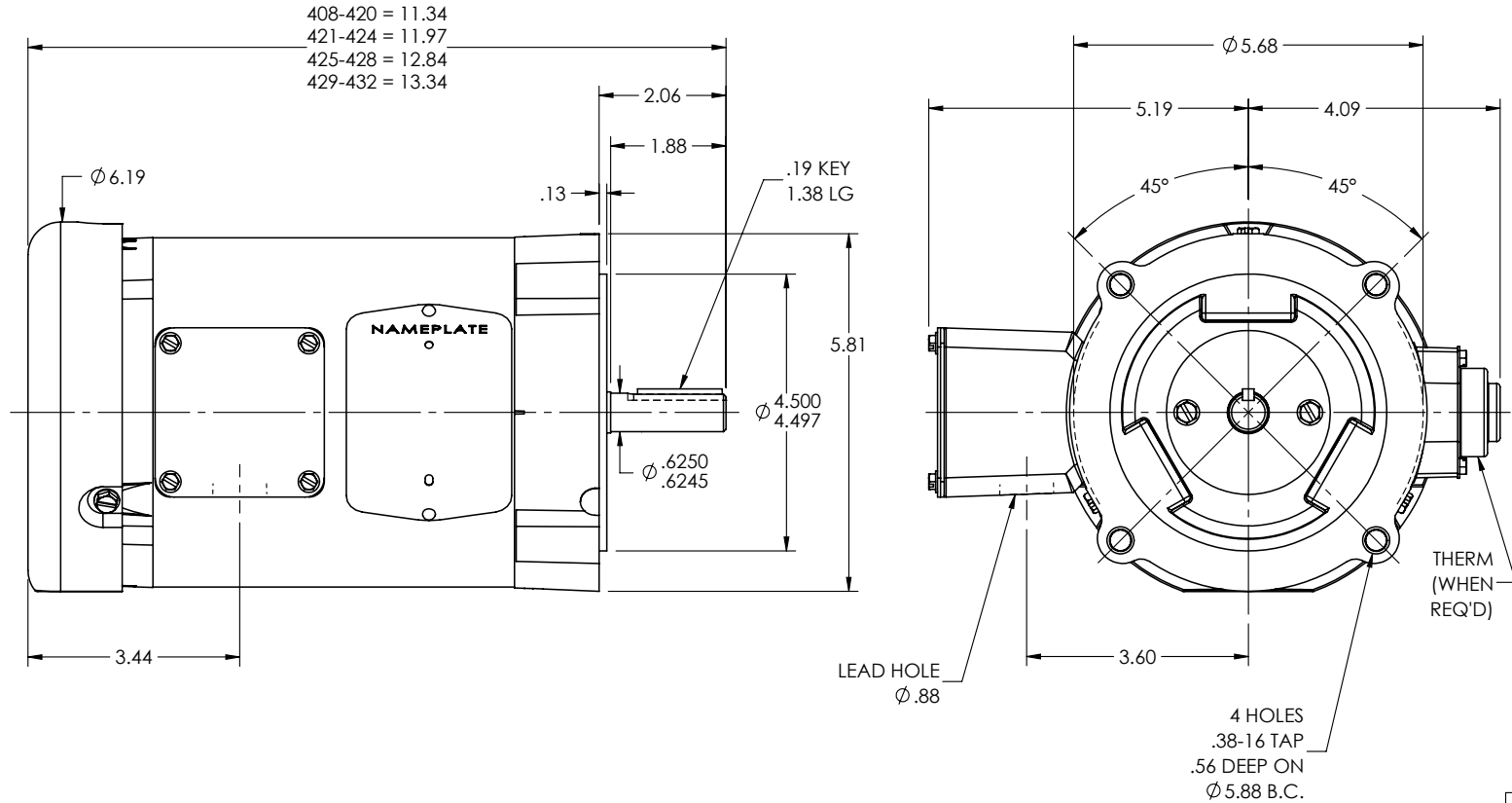
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 575 V 3410M

TORQUES (LB-FT): PO=3.4 PU=2.7 LR=3 LRA=4.8



34LYA063



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CLEAN UP DIMENSIONING

REV: P    VERSION: 05    REVISED: 08:51:08 10/31/2024    TDR: 000001243684

34LYA063

MODEL NO. 34LYA063

BY: ENJEFD0

REF: -

**BALDOR - RELIANCE®**

STD VERT 34M NEMA 56C TEFC

34LYA063

CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

|                                   |                              |                   |
|-----------------------------------|------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 |                              |                   |
| REV. LTR: E                       | VERSION: 01                  | TDR: 000001099922 |
| FILE: \AAA\00005\141              | REVISED: 10:24:49 02/19/2019 | BY: ENBRIRO       |
| MTL: -                            | © □                          |                   |

**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1