

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEDM3546

1HP, 1770RPM, 3PH, 60HZ, 56C, 3520M, TEFC, F1, N

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>             | 1.000 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<br>230.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | CCSA US<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>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>              | 3.200 A @ 230.0 V<br>3.200 A @ 208.0 V<br>1.600 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>         | 85.5 %  |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | C          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E4315    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGG004   |
| <b>Layout</b>       | 35LYE4315  |
| <b>Eff. date</b>    | 05-03-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18 Y     |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-10-2022 |

|                                      |                     |
|--------------------------------------|---------------------|
| <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>   | 1.6 a               |
| <b>Insulation Class</b>              | F                   |
| <b>Inverter Code</b>                 | Inverter Ready      |
| <b>KVA Code</b>                      | N                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Max Speed</b>                     | 2700 rpm            |
| <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>                    | 3520M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 12.23 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>              | C-Face              |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 0.625 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 1770 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 |

**Winding Thermal 1**

**None**

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**Winding Thermal 2**

**None**

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**Nameplate**

**NP3504**

|                     |               |                 |      |                   |      |                    |
|---------------------|---------------|-----------------|------|-------------------|------|--------------------|
| <b>CAT NO</b>       | CEDM3546      |                 |      |                   |      |                    |
| <b>SPEC.</b>        | 35E4315G004G1 | <b>ENCL</b>     | TEFC |                   |      |                    |
| <b>FRAME</b>        | 56C           | <b>HP</b>       | 1    |                   |      |                    |
| <b>VOLTS</b>        | 230/460       |                 |      |                   |      |                    |
| <b>FLA</b>          | 3.2/1.6       | <b>I.P.</b>     | 56   |                   |      |                    |
| <b>RPM</b>          | 1770          | <b>RPM MAX</b>  | 2700 |                   |      |                    |
| <b>HZ</b>           | 60            | <b>PH</b>       | 3    | <b>CLASS</b>      | F    |                    |
| <b>SER.F.</b>       | 1.15          | <b>DES</b>      | B    | <b>CC</b>         | 010A |                    |
| <b>NEMA-NOM-EFF</b> | 85.5          |                 |      |                   |      |                    |
| <b>RATING</b>       | 40C AMB-CONT  |                 |      |                   |      |                    |
| <b>DE BRG</b>       | 6205          | <b>ODE BRG</b>  | 6203 |                   |      |                    |
| <b>GREASE</b>       | POLYREX EM    |                 |      |                   |      |                    |
| <b>INV. TYPE</b>    |               | <b>C HP FR</b>  | 60   | <b>C HP TO</b>    | 90   |                    |
| <b>CT HZ FROM</b>   | 6             | <b>CT HZ TO</b> | 60   | <b>VT HZ FROM</b> | 6    | <b>VT HZ TO</b> 60 |
| <b>SER.NO</b>       | SFA 3.4/1.7   |                 |      |                   |      |                    |

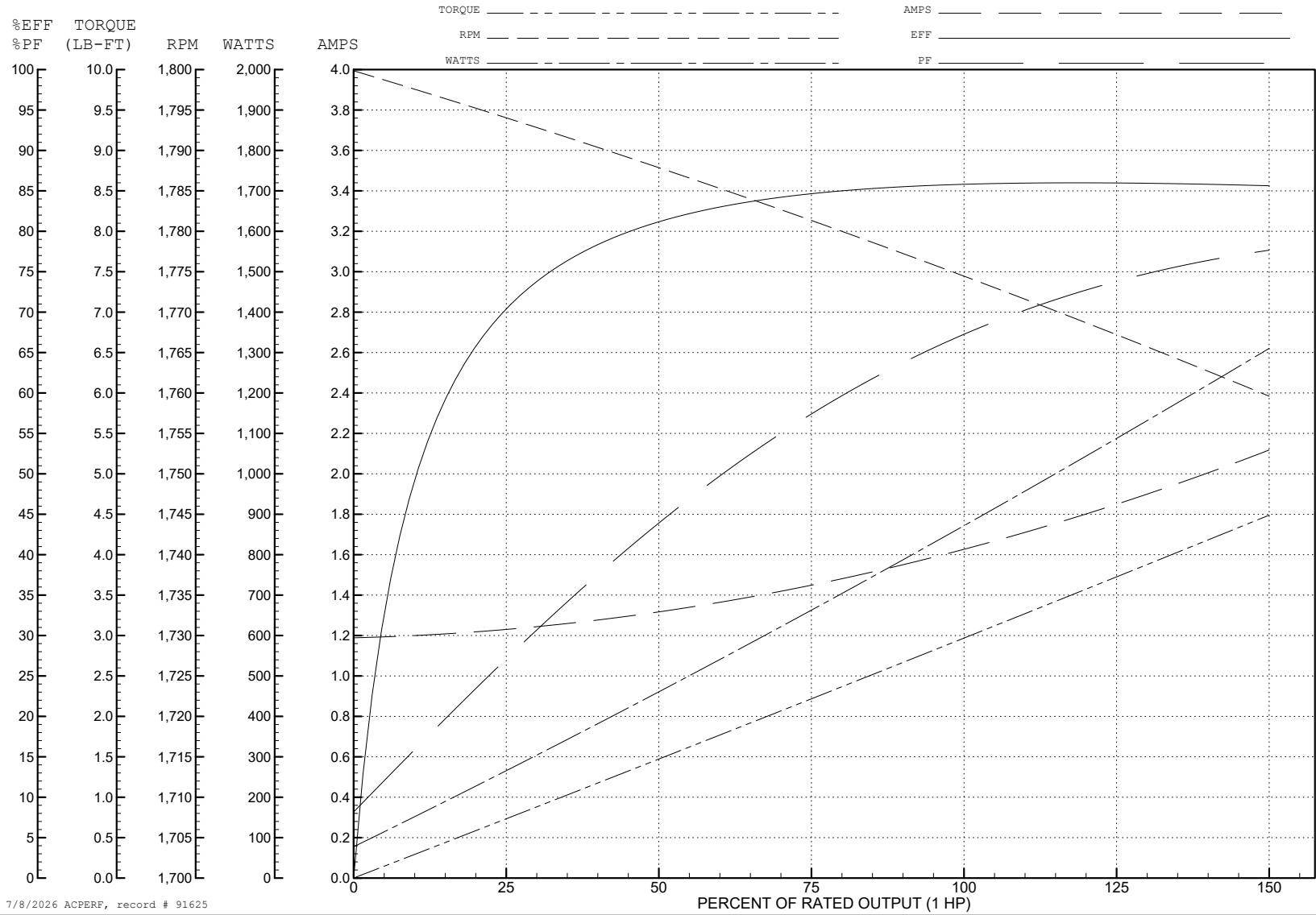
ABB Motors and Mechanical Inc.

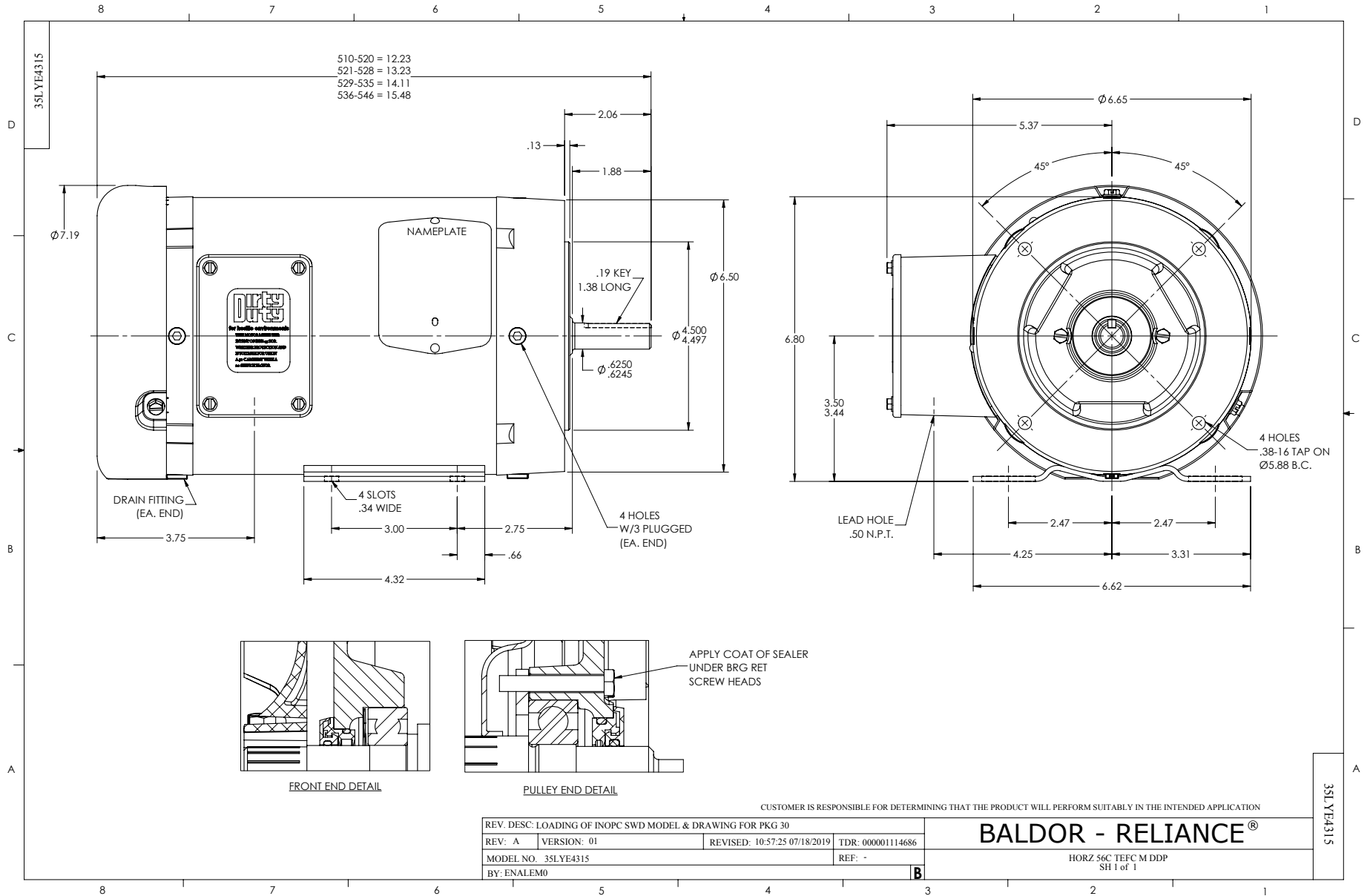
WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3520M

TORQUES (LB-FT): PO=14.6 PU=7.57 LR=9.17 LRA=14.6





CD0005

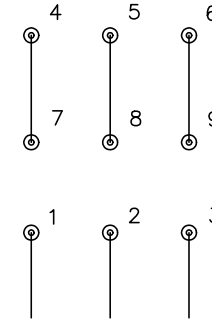


LOW VOLTAGE  
(2Y)



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.

|   |         |                         |              |
|---|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|   |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005