

# ABB BALDOR RELIANCE III

---

## Customer information packet

### CEWDM3550-H

1.5HP, 3500RPM, 3PH, 60HZ, 56HC, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| <b>Enclosure</b>                      | TENV                                   |
| <b>Frame</b>                          | 56HC                                   |
| <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>  | 3600 RPM @ 60 HZ                       |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| <b>Agency Approvals</b>               | CSA<br>CSA EEV<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>Current @ Voltage</b>              | 4.000 A @ 230.0 V<br>2.000 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              |
| <b>Feedback Device</b>                | NO FEEDBACK                            |
| <b>Heater Indicator</b>               | No Heater                              |
| <b>High Voltage Full Load Amps</b>    | 2.0 a                                  |

**Part Detail**

|                     |              |
|---------------------|--------------|
| <b>Revision</b>     | C            |
| <b>Type</b>         | AC           |
| <b>Mech. spec.</b>  |              |
| <b>Base</b>         |              |
| <b>Status</b>       | PRD/A        |
| <b>Elec. spec.</b>  | 35WGR445     |
| <b>Layout</b>       | 35LY-000-259 |
| <b>Eff. date</b>    | 02-14-2024   |
| <b>CD Diagram</b>   | CD0005       |
| <b>Poles</b>        | 02           |
| <b>Leads</b>        | 9#18         |
| <b>Proprietary</b>  | False        |
| <b>Created date</b> | 06-26-2019   |

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Insulation Class</b>           | <b>F</b>                   |
| <b>Inverter Code</b>              | <b>Inverter Ready</b>      |
| <b>IP Rating</b>                  | <b>IP55</b>                |
| <b>KVA Code</b>                   | <b>N</b>                   |
| <b>Lifting Lugs</b>               | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>   | <b>Locked Bearing</b>      |
| <b>Motor Lead Termination</b>     | <b>Flying Leads</b>        |
| <b>Motor Standards</b>            | <b>NEMA</b>                |
| <b>Motor Type</b>                 | <b>3528M</b>               |
| <b>Mounting Arrangement</b>       | <b>F1</b>                  |
| <b>Number of Poles</b>            | <b>2</b>                   |
| <b>Overall Length</b>             | <b>12.06 IN</b>            |
| <b>Power Factor</b>               | <b>87</b>                  |
| <b>Product Family</b>             | <b>Wash Down</b>           |
| <b>Pulley Face Code</b>           | <b>C-Face</b>              |
| <b>Rodent Screen</b>              | <b>None</b>                |
| <b>Service Factor</b>             | <b>1.15</b>                |
| <b>Shaft Diameter</b>             | <b>0.625 IN</b>            |
| <b>Shaft Ground Indicator</b>     | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>             | <b>Reversible</b>          |
| <b>Speed</b>                      | <b>3500 rpm</b>            |
| <b>Speed Code</b>                 | <b>Single Speed</b>        |
| <b>Starting Method</b>            | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>   | <b>None</b>                |
| <b>Thermal Device - Winding</b>   | <b>None</b>                |
| <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**

| NP1669L      |              |      |     |      |   |       |  |    |   |  |  |
|--------------|--------------|------|-----|------|---|-------|--|----|---|--|--|
| CAT.NO.      | CEWDM3550-H  |      |     |      |   |       |  |    |   |  |  |
| SPEC.        | 35-0000-0231 |      |     |      |   |       |  |    |   |  |  |
| HP           | 1.5          |      |     |      |   |       |  |    |   |  |  |
| VOLTS        | 230/460      |      |     |      |   |       |  |    |   |  |  |
| AMP          | 4/2          |      |     |      |   |       |  |    |   |  |  |
| RPM          | 3500         |      |     |      |   |       |  |    |   |  |  |
| FRAME        | 56HC         |      | HZ  | 60   |   |       |  | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | N   | DES  | B | CLASS |  | F  |   |  |  |
| NEMA-NOM-EFF | 85.5         | PF   | 87  |      |   |       |  |    |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |  |    |   |  |  |
| CC           | 010A         |      |     |      |   |       |  |    |   |  |  |
| DE           | 6205         |      | ODE | 6203 |   |       |  |    |   |  |  |
| ENCL         | TENV         | SN   |     |      |   |       |  |    |   |  |  |
| BLANK        |              |      |     |      |   |       |  |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 67482

Typical performance - not guaranteed values

| Winding: 35WGR445-R020 |    |         | Type: 3528M                              |                     | Enclosure: TENV           |          |      |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|----------|------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |          |      |
| Rated Output (HP)      |    | 1.5     | Full Load Torque                         |                     | 2.3 LB-FT                 |          |      |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |          |      |
| Full Load Amps         |    | 4/2     | Breakdown Torque                         |                     | 12 LB-FT                  |          |      |
| R.P.M.                 |    | 3500    | Pull-up Torque                           |                     | 8.2 LB-FT                 |          |      |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 11 LB-FT |      |
| NEMA Design Code       |    | B       | KVA Code                                 |                     | N                         |          |      |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 0.9 A                     |          |      |
| NEMA Nom. Eff.         |    | 85.5    | Power Factor                             |                     | 87                        |          |      |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |          | 73°C |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |          | 84°C |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |          | 48.4 |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 51   | 71   | 81   | 87   | 90   | 91   | 89   |
| Efficiency      | 73.8 | 82.5 | 85.2 | 86.1 | 86   | 85.4 | 86   |
| Speed           | 3568 | 3544 | 3519 | 3493 | 3466 | 3434 | 3477 |
| Line amperes    | 1.1  | 1.3  | 1.6  | 1.9  | 2.3  | 2.8  | 2.14 |

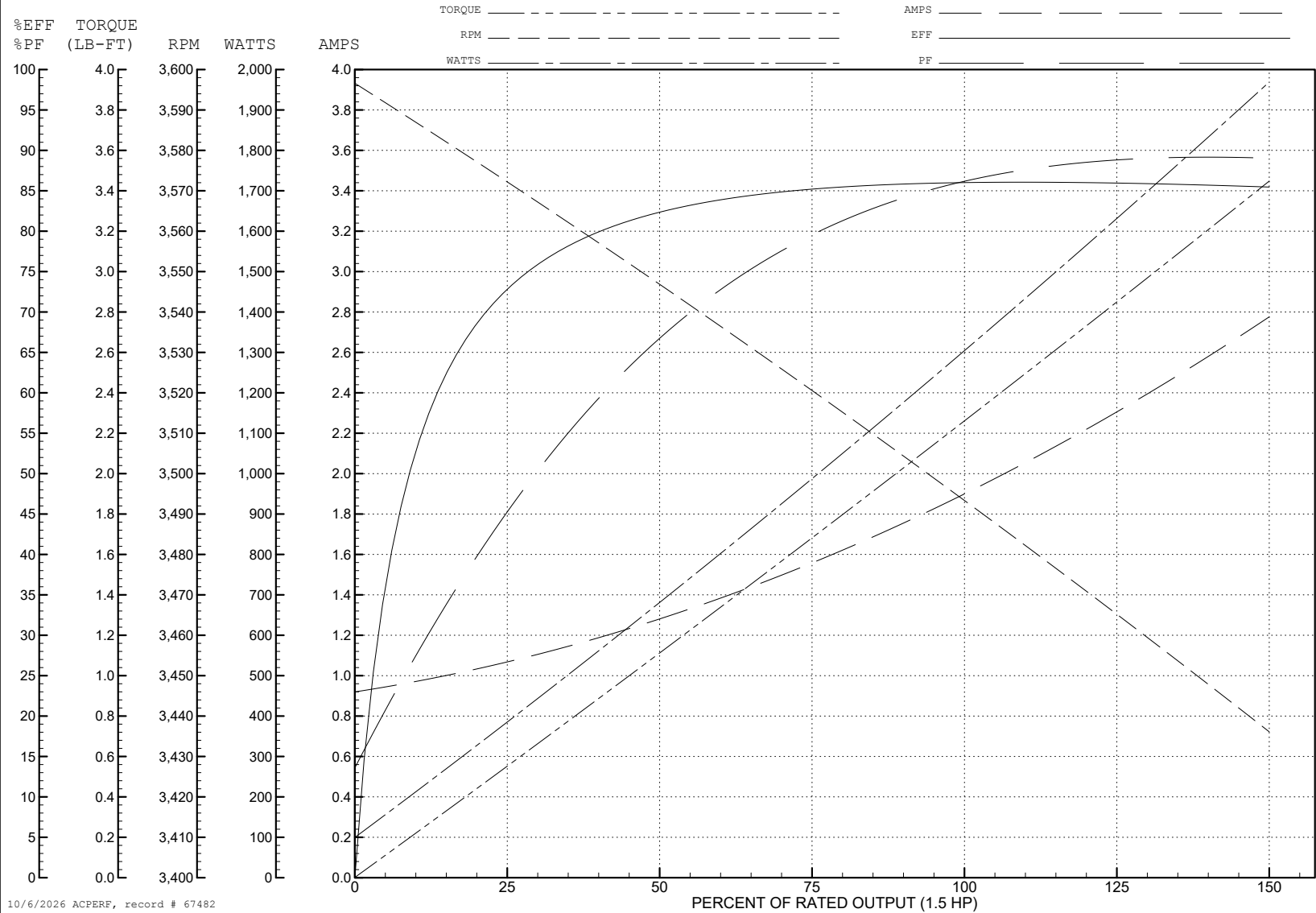
ABB Motors and Mechanical Inc.

WINDING # 35WGR445

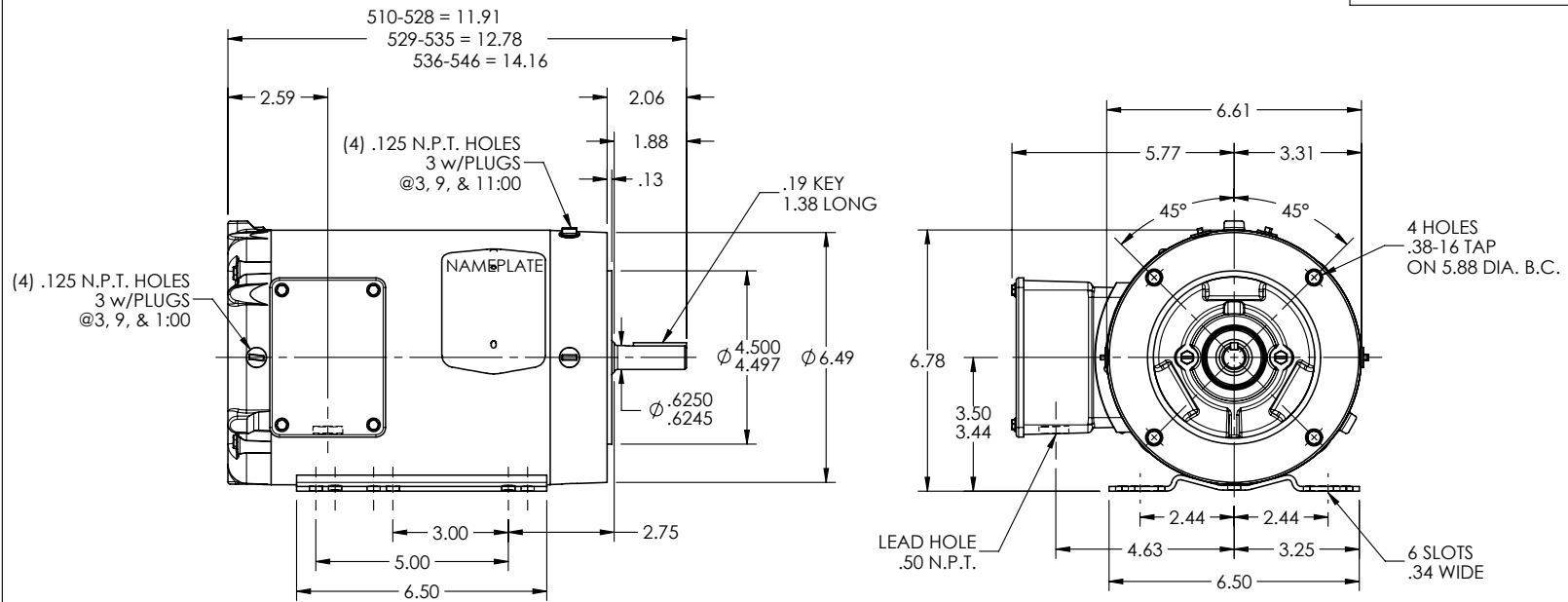
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3528M

TORQUES (LB-FT) : PO=12 PU=8.2 LR=11 LRA=23.5



35LY-000-259



PULLEY END DETAIL

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

REV. DESC: UPDATE MATE ERRORS IN 3D MODEL

|        |             |                              |                   |
|--------|-------------|------------------------------|-------------------|
| REV: A | VERSION: 01 | REVISED: 08:47:50 04/21/2022 | TDR: 000001188385 |
|--------|-------------|------------------------------|-------------------|

657-000-1159

MODEL NO. 35LY-000-259

BY: USBUFRA

REF: -

**BALDOR - RELIANCE®**

STD HORZ 56HC TENV 35M WD

35LY-000-259

