

# ABB BALDOR RELIANCE III

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## Customer information packet

### XL050762

.75HP, 1165RPM, 1PH, 60HZ, 56, 3540L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <b>Enclosure</b>                      | XPFC                                    |
| <b>Frame</b>                          | 56                                      |
| <b>Frame Material</b>                 | Steel                                   |
| <b>Frequency</b>                      | 60.00 Hz                                |
| <b>Haz Area Class and Group</b>       | CLI GP D; CLII GP F,G                   |
| <b>Haz Area Division</b>              | Division I                              |
| <b>Motor Letter Type</b>              | Cap Start, Induction Run                |
| <b>Output @ Frequency</b>             | .750 HP @ 60 HZ                         |
| <b>Phase</b>                          | 1                                       |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                        |
| <b>Voltage @ Frequency</b>            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ      |
| <b>Agency Approvals</b>               | UL<br>CSA                               |
| <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>              | 10.500 A @ 115.0 V<br>5.250 A @ 230.0 V |
| <b>Design Code</b>                    | L                                       |
| <b>Drip Cover</b>                     | No Drip Cover                           |
| <b>Duty Rating</b>                    | CONT                                    |
| <b>Efficiency @ 100% Load</b>         | 72.0 %                                  |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated               |
| <b>Feedback Device</b>                | NO FEEDBACK                             |
| <b>Front Shaft Indicator</b>          | None                                    |
| <b>Haz Area Temp Code</b>             | T3C                                     |
| <b>Heater Indicator</b>               | No Heater                               |
| <b>High Voltage Full Load Amps</b>    | 5.3 a                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | F          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E353     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGG517   |
| <b>Layout</b>       | 35LYE353   |
| <b>Eff. date</b>    | 06-05-2026 |
| <b>CD Diagram</b>   | CD00001    |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 6#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-02-2022 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | F                          |
| <b>Inverter Code</b>                 | Not Inverter               |
| <b>KVA Code</b>                      | L                          |
| <b>Lifting Lugs</b>                  | No Lifting Lugs            |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing          |
| <b>Motor Lead Quantity/Wire Size</b> | 6 @ 18 AWG                 |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | X3540L                     |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 6                          |
| <b>Overall Length</b>                | 17.40 IN                   |
| <b>Power Factor</b>                  | 63                         |
| <b>Product Family</b>                | Hazardous Location Motor   |
| <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 NON-COMPLIANT         |
| <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>                         | 1165 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>      | Normally Closed Thermostat |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor        |
| <b>Winding Thermal 1</b>             | None                       |
| <b>Winding Thermal 2</b>             | None                       |

Nameplate

| NP1426XPSL |                        |    |              |   |      |   |   |    |  |
|------------|------------------------|----|--------------|---|------|---|---|----|--|
| NO.        |                        | CC |              |   |      |   |   |    |  |
| SER.       |                        |    |              |   |      |   |   |    |  |
| SPEC.      | 35E353G517             |    |              |   |      |   |   |    |  |
| CAT.NO.    | XL050762               |    |              |   |      |   |   |    |  |
| HP         | .75                    |    | T. CODE      |   | T3C  |   |   |    |  |
| VOLTS      | 115/230                |    |              |   |      |   |   |    |  |
| AMPS       | 10.5/5.25              |    |              |   |      |   |   |    |  |
| RPM        | 1165                   |    |              |   |      |   |   |    |  |
| HZ         | 60                     |    | PH           | 1 | CL   | F |   |    |  |
| SER.F.     | 1.15                   |    | DES          | L | CODE |   | L |    |  |
| RATING     | 40C AMB-CONT           |    |              |   |      |   |   |    |  |
| FRAME      | 56                     |    | NEMA-NOM-EFF |   |      |   |   | 72 |  |
|            |                        | PF | 63           |   |      |   |   |    |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |    |              |   |      |   |   |    |  |

**AC Induction Motor Performance Data**

Record # 96489

Typical performance - not guaranteed values

| Winding: 35WGG517-R001 |    |              | Type: 3540L                             |                           | Enclosure: TEFC       |             |                             |
|------------------------|----|--------------|-----------------------------------------|---------------------------|-----------------------|-------------|-----------------------------|
| Nameplate Data         |    |              | 115 V, 60 Hz:<br>Low Voltage Connection |                           |                       |             |                             |
| Rated Output (HP)      |    | .75          | Full Load Torque                        |                           | 3.37 LB-FT            |             |                             |
| Volts                  |    | 115/230      | Start Configuration                     |                           | direct on line        |             |                             |
| Full Load Amps         |    | 10.5/5.25    | Breakdown Torque                        |                           | 8.9 LB-FT             |             |                             |
| R.P.M.                 |    | 1165         | Pull-up Torque                          |                           | 4.6 LB-FT             |             |                             |
| Hz                     | 60 | Phase        | 1                                       | Locked-rotor Torque       |                       | 9.5 LB-FT   |                             |
| NEMA Design Code       |    | L            | KVA Code                                | L                         | Starting Current      |             | 47.6 A                      |
| Service Factor (S.F.)  |    | 1.15         |                                         | No-load Current           |                       | 8.23 A      |                             |
| NEMA Nom. Eff.         |    | 72           | Power Factor                            | 63                        | Line-line Res. @ 25°C |             | 0.749 Ω A Ph<br>3.72 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                         | Temp. Rise @ Rated Load   |                       | 74°C        |                             |
| S.F. Amps              |    | 11.2/5.6     |                                         | Temp. Rise @ S.F. Load    |                       | 83°C        |                             |
|                        |    |              |                                         | Locked-rotor Power Factor |                       | 83.2        |                             |
|                        |    |              |                                         | Rotor inertia             |                       | 0.29 lb-ft² |                             |

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 29   | 42   | 54   | 63   | 69   | 74   | 67   |
| Efficiency      | 49.9 | 64.9 | 71.2 | 73.8 | 74.5 | 73.9 | 74.2 |
| Speed           | 1191 | 1184 | 1176 | 1168 | 1158 | 1147 | 1162 |
| Line amperes    | 8.4  | 8.84 | 9.55 | 10.5 | 11.8 | 13.3 | 11.3 |

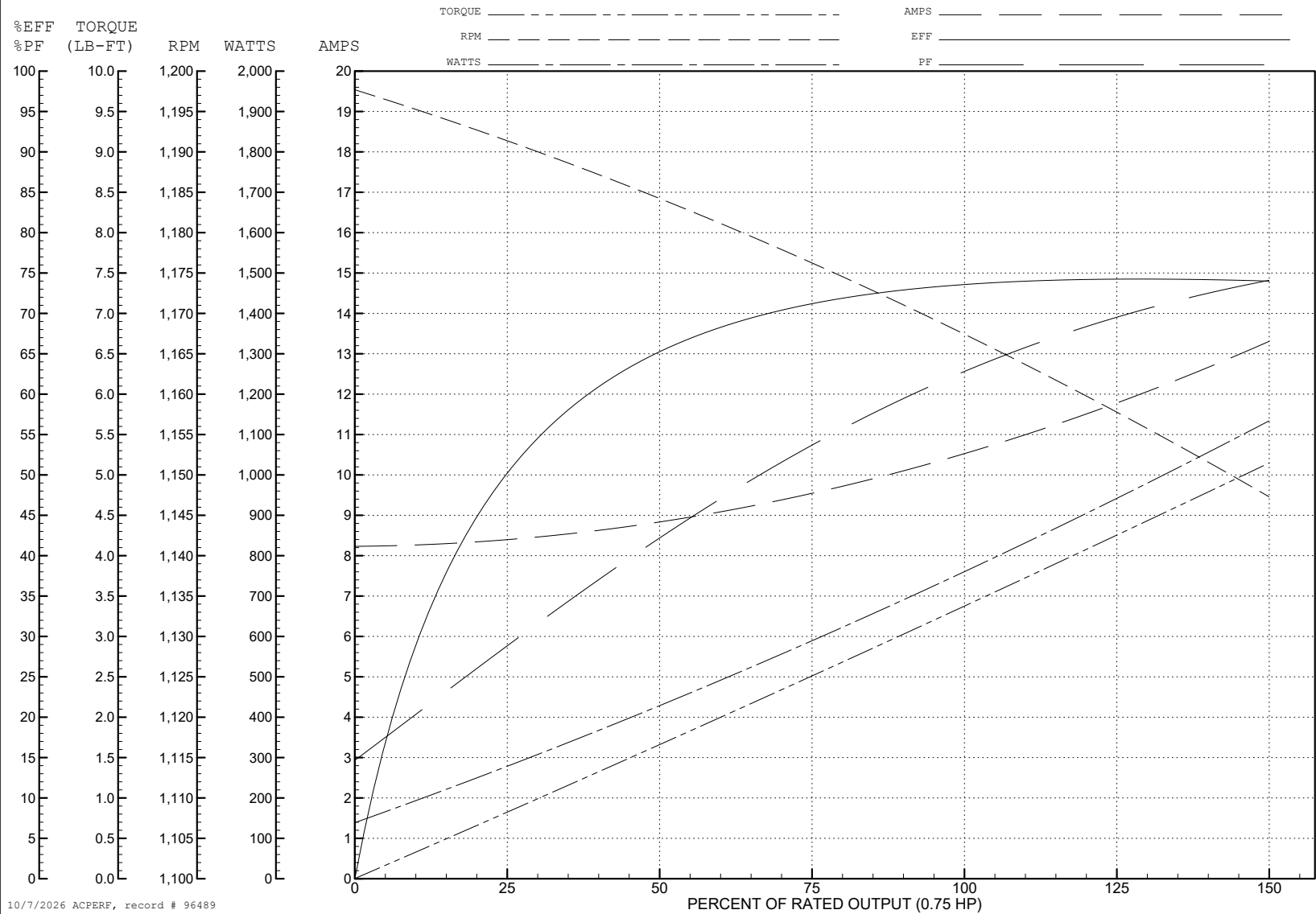
ABB Motors and Mechanical Inc.

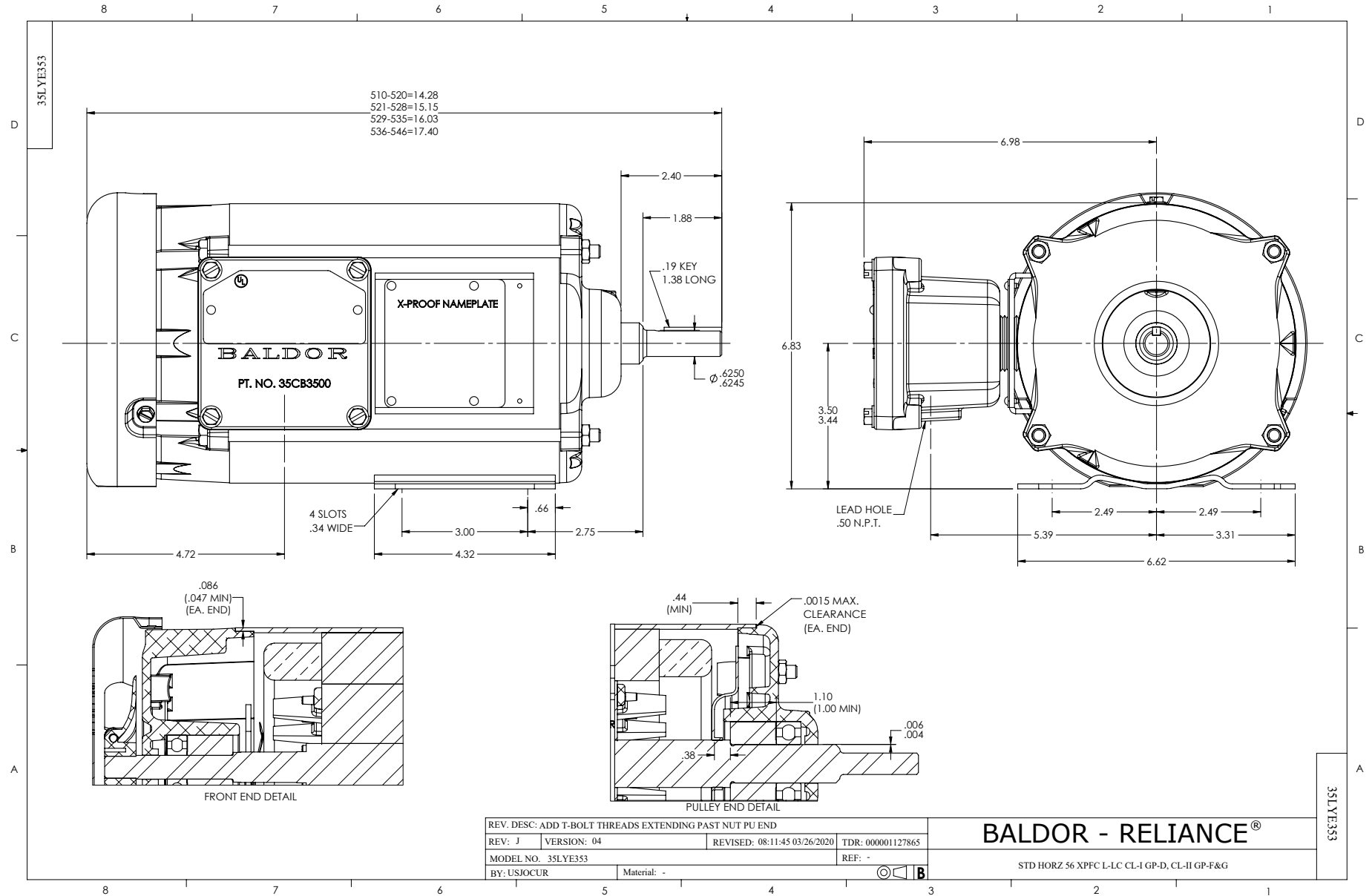
WINDING # 35WGG517

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1165 RPM 115 V 3540L

TORQUES (LB-FT) : PO=8.9 PU=4.6 LR=9.5 LRA=47.6





CD0001

