

# ABB BALDOR RELIANCE III

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## Customer information packet

### XL05142A

1HP, 1730RPM, 1PH, 60HZ, 56, 3524L, XPFC, F1, N

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | XPFC                                    |
| Frame                          | 56                                      |
| Frame Material                 | Steel                                   |
| Frequency                      | 60.00 Hz                                |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                   |
| Haz Area Division              | Division I                              |
| Motor Letter Type              | Cap Start, Induction Run                |
| Output @ Frequency             | 1.000 HP @ 60 HZ                        |
| Phase                          | 1                                       |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                        |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ      |
| Agency Approvals               | UL<br>CSA                               |
| Ambient Temperature            | 40 °C                                   |
| Auxiliary Box                  | NO AUXILLARY BOX                        |
| Auxiliary Box Lead Termination | None                                    |
| Base Indicator                 | Rigid                                   |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                 |
| Blower                         | None                                    |
| Current @ Voltage              | 12.400 A @ 115.0 V<br>6.200 A @ 230.0 V |
| Design Code                    | L                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 67.0 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Front Shaft Indicator          | None                                    |
| Haz Area Temp Code             | T3C                                     |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 6.2 a                                   |

**Part Detail**

|              |                                |
|--------------|--------------------------------|
| Revision     | B                              |
| Type         | AC                             |
| Mech. spec.  | 35E353                         |
| Base         |                                |
| Status       | PRD/A                          |
| Elec. spec.  | 35WGF092                       |
| Layout       | 35LYE353                       |
| Eff. date    | 08-20-2026                     |
| CD Diagram   | CD0008                         |
| Poles        | 04                             |
| Leads        | 3#16 A PH,3#18 B&J,1#14 #4TH Y |
| Proprietary  | False                          |
| Created date | 11-14-2024                     |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>B</b>                   |
| <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> | 3 @ 16 AWG, A PH           |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | X3524L                     |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 4                          |
| <b>Overall Length</b>                | 15.15 IN                   |
| <b>Power Factor</b>                  | 77                         |
| <b>Product Family</b>                | General Purpose            |
| <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>Service Factor</b>                | 1.00                       |
| <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>                         | 1730 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>      | Do Not Use Eve-Not Valid   |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor        |
| <b>Winding Thermal 1</b>             | Automatic Thermal Overload |
| <b>Winding Thermal 1 Location</b>    | EP                         |
| <b>Winding Thermal 2</b>             | None                       |

**Nameplate**

| NP0016XPSL     |                        |                      |     |              |   |  |  |  |  |
|----------------|------------------------|----------------------|-----|--------------|---|--|--|--|--|
| <b>NO.</b>     |                        | <b>CC</b>            |     |              |   |  |  |  |  |
| <b>SER. #</b>  |                        |                      |     |              |   |  |  |  |  |
| <b>SPEC</b>    | 35E353F092             |                      |     |              |   |  |  |  |  |
| <b>CAT.NO.</b> | XL05142A               |                      |     |              |   |  |  |  |  |
| <b>H.P.</b>    | 1                      | <b>T. CODE</b>       | T3C |              |   |  |  |  |  |
| <b>VOLTS</b>   | 115/230                |                      |     |              |   |  |  |  |  |
| <b>AMPS</b>    | 12.4/6.2               |                      |     |              |   |  |  |  |  |
| <b>R.P.M.</b>  | 1730                   |                      |     |              |   |  |  |  |  |
| <b>HZ</b>      | 60                     | <b>PH</b>            | 1   | <b>CLASS</b> | B |  |  |  |  |
| <b>SER.F.</b>  | 1.00                   | <b>DES</b>           | L   | <b>CODE</b>  | L |  |  |  |  |
| <b>RATING</b>  | 40C AMB-CONT           |                      |     |              |   |  |  |  |  |
| <b>FRAME</b>   | 56                     | <b>NEMA NOM. EFF</b> | 67  |              |   |  |  |  |  |
|                | <b>PF</b>              | 77                   |     |              |   |  |  |  |  |
| <b>BLANK</b>   | NEMA MG-1 PART 5, IP54 |                      |     |              |   |  |  |  |  |

**AC Induction Motor Performance Data**

Record # 20952

Typical performance - not guaranteed values

| Winding: 35WG0766-R002 |          |              | Type: 3520L                              |  | Enclosure: XPFC            |  |
|------------------------|----------|--------------|------------------------------------------|--|----------------------------|--|
| Nameplate Data         |          |              | 230 V, 60 Hz:<br>High Voltage Connection |  |                            |  |
| Rated Output (HP)      |          | .33          | Full Load Torque                         |  | 1.5 LB-FT                  |  |
| Volts                  |          | 115/230      | Start Configuration                      |  | direct on line             |  |
| Full Load Amps         |          | 6.8/3.4      | Breakdown Torque                         |  | 3.5 LB-FT                  |  |
| R.P.M.                 |          | 1140         | Pull-up Torque                           |  | 3.3 LB-FT                  |  |
| Hz                     | 60 Phase | 1            | Locked-rotor Torque                      |  | 4.8 LB-FT                  |  |
| NEMA Design Code       |          | N            | KVA Code                                 |  | K                          |  |
| Service Factor (S.F.)  |          | 1            | Starting Current                         |  | 13 A                       |  |
| NEMA Nom. Eff.         |          | 54           | Power Factor                             |  | 56                         |  |
| Rating - Duty          |          | 40C AMB-CONT | Line-line Res. @ 25°C                    |  | 7.76 Ω A Ph<br>4.23 Ω B Ph |  |
|                        |          |              | Temp. Rise @ Rated Load                  |  | 72°C                       |  |

**Load Characteristics 230 V, 60 Hz, 0.33 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 33   | 42   | 50   | 58   | 64   | 70   |
| Efficiency      | 26.8 | 41.5 | 50.1 | 55.2 | 57.8 | 58.7 |
| Speed           | 1188 | 1179 | 1170 | 1160 | 1148 | 1133 |
| Line amperes    | 3.05 | 3.1  | 3.2  | 3.35 | 3.6  | 3.9  |

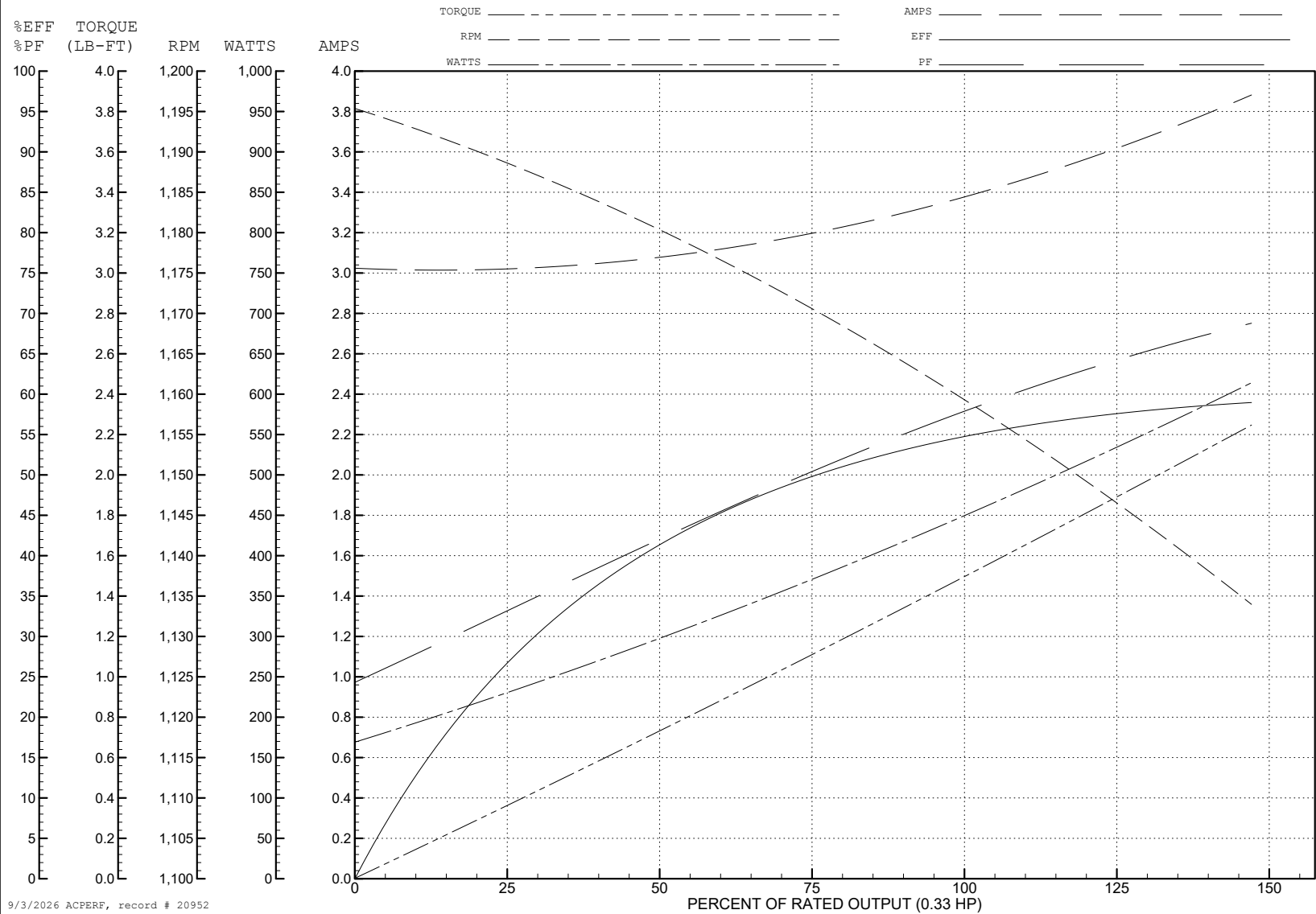
ABB Motors and Mechanical Inc.

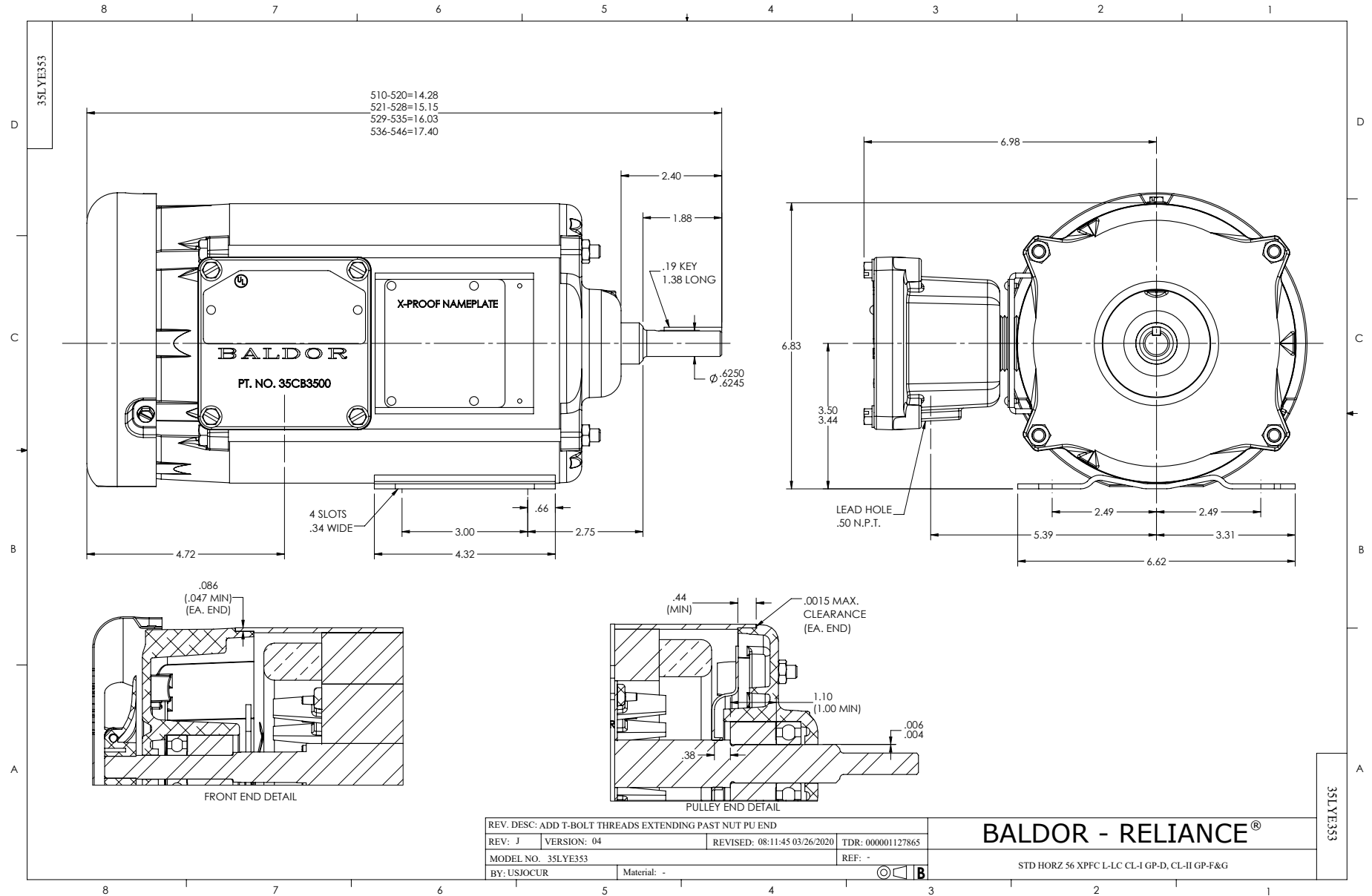
WINDING # 35WG0766

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1140 RPM 230 V 3520L

TORQUES (LB-FT): PO=3.5 PU=3.3 LR=4.8 LRA=13





CD0008

