

# ABB BALDOR RELIANCE III

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## Customer information packet

### CL5030T

1.5HP, 3450RPM, 1PH, 60HZ, 143TC, X3528L, XPFC

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                         |
| <b>Frame</b>                          | 143TC                                                        |
| <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>             | 1.500 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 1                                                            |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                             |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>208.0 V @ 60 HZ<br>115.0 V @ 60 HZ        |
| <b>Agency Approvals</b>               | CSA<br>UL                                                    |
| <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>              | 7.900 A @ 208.0 V<br>7.500 A @ 230.0 V<br>15.000 A @ 115.0 V |
| <b>Design Code</b>                    | L                                                            |
| <b>Drip Cover</b>                     | No Drip Cover                                                |
| <b>Duty Rating</b>                    | CONT                                                         |
| <b>Efficiency @ 100% Load</b>         | 70.0 %                                                       |
| <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                                                         |

**Part Detail**

|                     |                     |
|---------------------|---------------------|
| <b>Revision</b>     | BC                  |
| <b>Type</b>         | AC                  |
| <b>Mech. spec.</b>  | 35L966              |
| <b>Base</b>         |                     |
| <b>Status</b>       | PRD/A               |
| <b>Elec. spec.</b>  | 35WG0199            |
| <b>Layout</b>       | 35LYL966            |
| <b>Eff. date</b>    | 08-15-2024          |
| <b>CD Diagram</b>   | CD0001              |
| <b>Poles</b>        | 02                  |
| <b>Leads</b>        | 4#16 A PH,2#18 B PH |
| <b>Proprietary</b>  | False               |
| <b>Created date</b> | 06-27-2007          |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Haz Area Temp Code</b>            | T3C                        |
| <b>Heater Indicator</b>              | No Heater                  |
| <b>High Voltage Full Load Amps</b>   | 7.5 a                      |
| <b>Insulation Class</b>              | B                          |
| <b>Inverter Code</b>                 | Not Inverter               |
| <b>KVA Code</b>                      | H                          |
| <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> | 4 @ 16 AWG, A PH           |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | 3528L                      |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 2                          |
| <b>Overall Length</b>                | 15.23 IN                   |
| <b>Power Factor</b>                  | 82                         |
| <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>                | 1.00                       |
| <b>Shaft Diameter</b>                | 0.875 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>      | Normally Closed Thermostat |

| Vibration Sensor Indicator | No Vibration Sensor |
|----------------------------|---------------------|
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

**Nameplate**

| NP1426XPSL |              |    |              |     |  |      |   |   |    |
|------------|--------------|----|--------------|-----|--|------|---|---|----|
| NO.        |              | CC |              |     |  |      |   |   |    |
| SER.       |              |    |              |     |  |      |   |   |    |
| SPEC.      | 35L966-199   |    |              |     |  |      |   |   |    |
| CAT.NO.    | CL5030T      |    |              |     |  |      |   |   |    |
| HP         | 1.5          |    | T. CODE      | T3C |  |      |   |   |    |
| VOLTS      | 115/208-230  |    |              |     |  |      |   |   |    |
| AMPS       | 15/7.9-7.5   |    |              |     |  |      |   |   |    |
| RPM        | 3450         |    |              |     |  |      |   |   |    |
| HZ         | 60           |    | PH           | 1   |  | CL   | B |   |    |
| SER.F.     | 1.00         |    | DES          | L   |  | CODE |   | H |    |
| RATING     | 40C AMB-CONT |    |              |     |  |      |   |   |    |
| FRAME      | 143TC        |    | NEMA-NOM-EFF |     |  |      |   |   | 70 |
|            |              | PF | 82           |     |  |      |   |   |    |
| BLANK      |              |    |              |     |  |      |   |   |    |

**AC Induction Motor Performance Data**

Record # 8048

Typical performance - not guaranteed values

| Winding: 35WG0199-R007 |          |                 | Type: 3528L                              |  | Enclosure: XPFC            |  |
|------------------------|----------|-----------------|------------------------------------------|--|----------------------------|--|
| Nameplate Data         |          |                 | 230 V, 60 Hz:<br>High Voltage Connection |  |                            |  |
| Rated Output (HP)      |          | 1.5             | Full Load Torque                         |  | 2.3 LB-FT                  |  |
| Volts                  |          | 115/208-230     | Start Configuration                      |  | direct on line             |  |
| Full Load Amps         |          | 15/7.9-7.5      | Breakdown Torque                         |  | 5.6 LB-FT                  |  |
| R.P.M.                 |          | 3450            | Pull-up Torque                           |  | 5.2 LB-FT                  |  |
| Hz                     | 60 Phase | 1               | Locked-rotor Torque                      |  | 5.5 LB-FT                  |  |
| NEMA Design Code       |          | L KVA Code      | Starting Current                         |  | 42 A                       |  |
| Service Factor (S.F.)  |          | 1               | No-load Current                          |  | 4.5 A                      |  |
| NEMA Nom. Eff.         |          | 70 Power Factor | Line-line Res. @ 25°C                    |  | 1.26 Ω A Ph<br>1.23 Ω B Ph |  |
| Rating - Duty          |          | 40C AMB-CONT    | Temp. Rise @ Rated Load                  |  | 70°C                       |  |

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 47   | 64   | 73   | 80   | 84   | 86   |
| Efficiency      | 51.9 | 65.3 | 68.4 | 71.2 | 70.6 | 68.4 |
| Speed           | 3567 | 3541 | 3514 | 3475 | 3439 | 3397 |
| Line amperes    | 5    | 5.8  | 6.9  | 8.6  | 10.2 | 12.1 |

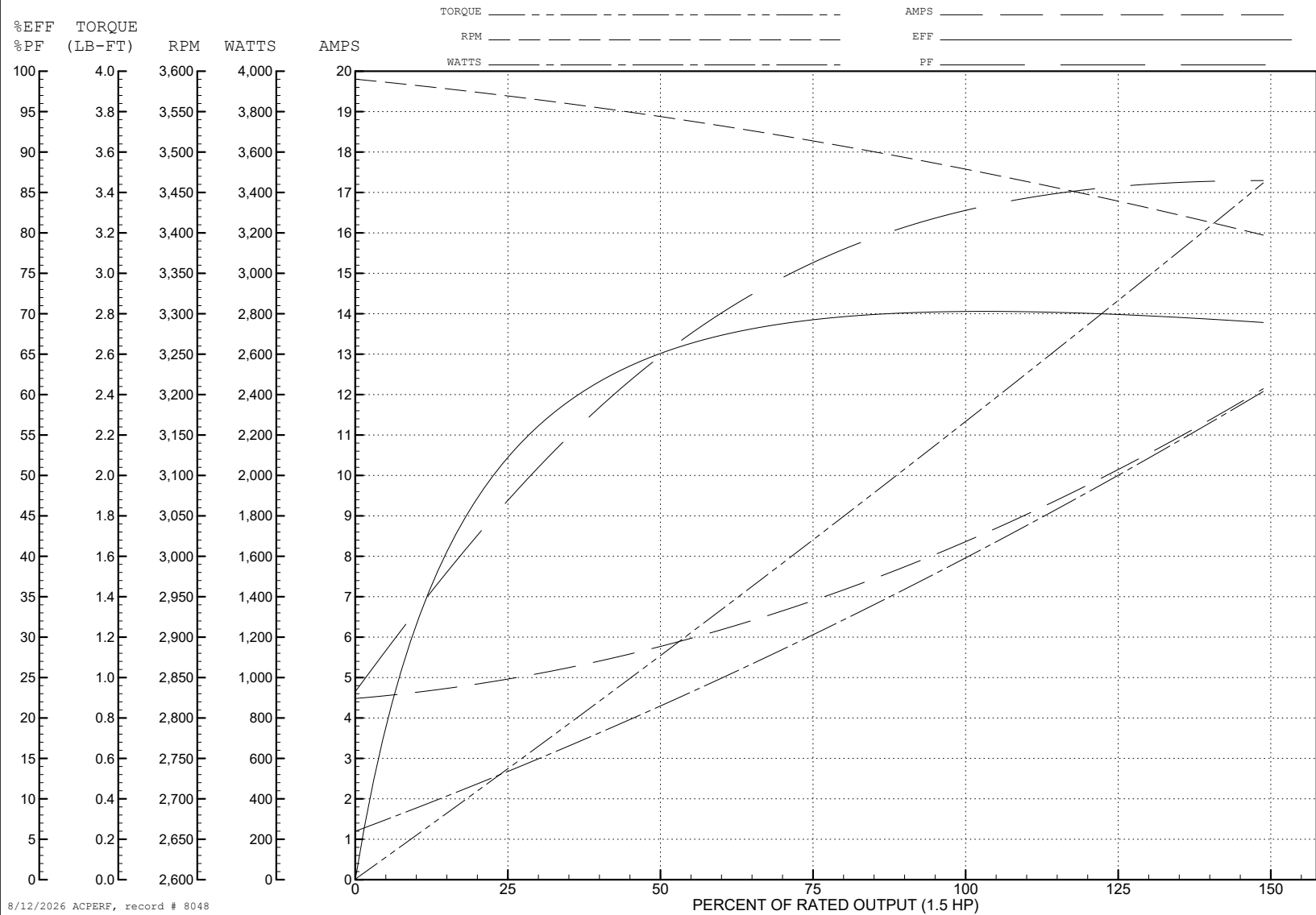
ABB Motors and Mechanical Inc.

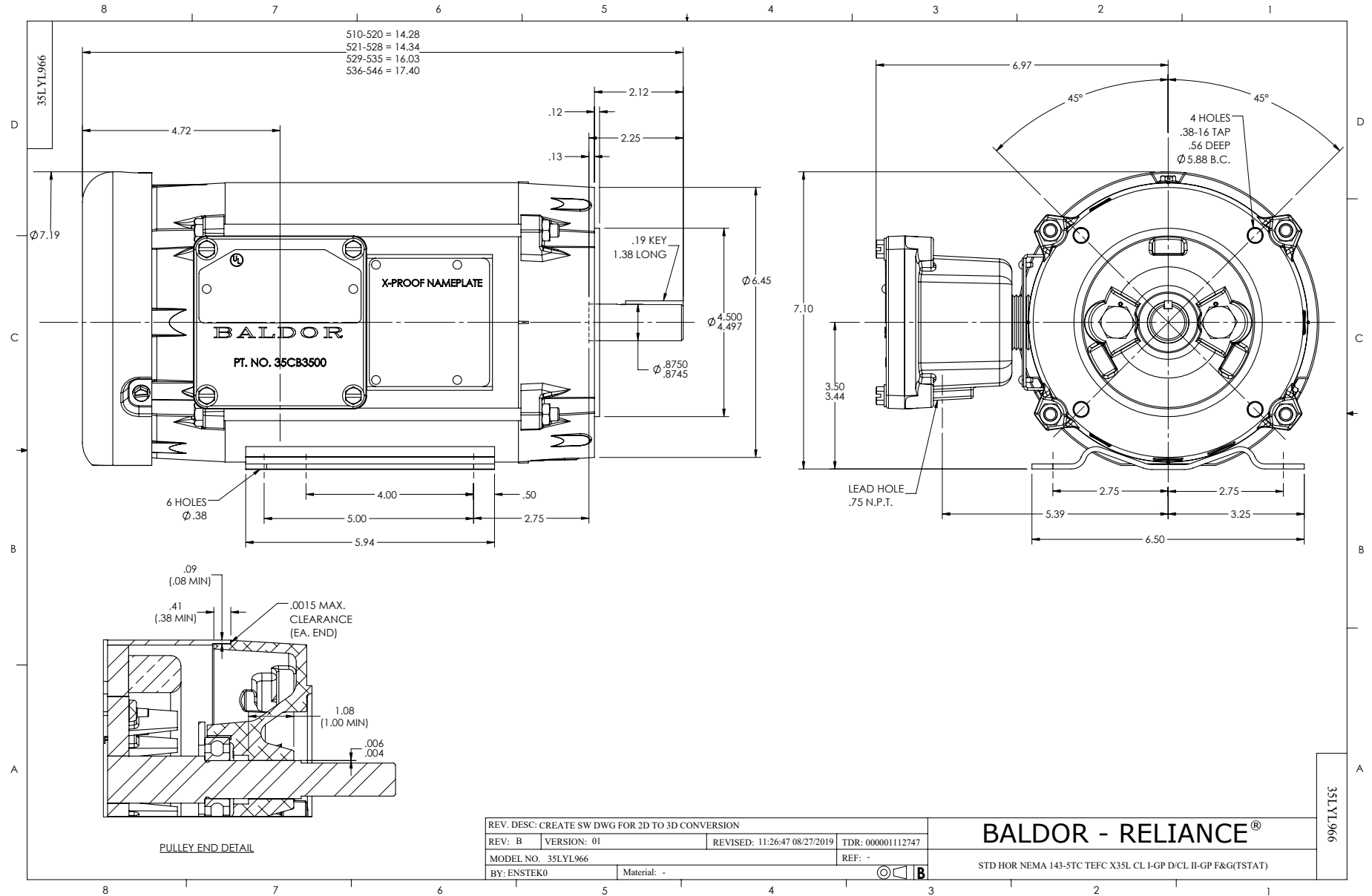
WINDING # 35WG0199

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

TORQUES (LB-FT): PO=5.6 PU=5.2 LR=5.5 LRA=42







CD0001

