

# ABB BALDOR RELIANCE III

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## Customer information packet

### VL3605T

2HP, 1725RPM, 1PH, 60HZ, 182TC, 3628L, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 182TC                                                          |
| <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>              | Cap Start, Induction Run                                       |
| <b>Output @ Frequency</b>             | 2.000 HP @ 60 HZ                                               |
| <b>Phase</b>                          | 1                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | C UR US                                                        |
| <b>Ambient Temperature</b>            | 40 °C                                                          |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                               |
| <b>Auxiliary Box Lead Termination</b> | None                                                           |
| <b>Base Indicator</b>                 | No Mounting                                                    |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                        |
| <b>Blower</b>                         | None                                                           |
| <b>Current @ Voltage</b>              | 11.500 A @ 230.0 V<br>11.700 A @ 208.0 V<br>23.000 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>         | 75.5 %                                                         |
| <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                                                           |
| <b>Heater Indicator</b>               | No Heater                                                      |
| <b>High Voltage Full Load Amps</b>    | 11.5 a                                                         |

**Part Detail**

|                     |                     |
|---------------------|---------------------|
| <b>Revision</b>     | AD                  |
| <b>Type</b>         | AC                  |
| <b>Mech. spec.</b>  | 36C003              |
| <b>Base</b>         |                     |
| <b>Status</b>       | PRD/A               |
| <b>Elec. spec.</b>  | 36WGW223            |
| <b>Layout</b>       | 36LYC003            |
| <b>Eff. date</b>    | 05-22-2025          |
| <b>CD Diagram</b>   | CD0001              |
| <b>Poles</b>        | 04                  |
| <b>Leads</b>        | 4#14 A PH,2#16 B PH |
| <b>Proprietary</b>  | False               |
| <b>Created date</b> | 01-01-0001          |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>F</b>                   |
| <b>Inverter Code</b>                 | <b>Not Inverter</b>        |
| <b>IP Rating</b>                     | <b>NONE</b>                |
| <b>KVA Code</b>                      | <b>H</b>                   |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>      |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>              |
| <b>Motor Lead Quantity/Wire Size</b> | <b>4 @ 14 AWG, A PH</b>    |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>NEMA</b>                |
| <b>Motor Type</b>                    | <b>3628L</b>               |
| <b>Mounting Arrangement</b>          | <b>F1</b>                  |
| <b>Number of Poles</b>               | <b>4</b>                   |
| <b>Overall Length</b>                | <b>16.55 IN</b>            |
| <b>Power Factor</b>                  | <b>74</b>                  |
| <b>Product Family</b>                | <b>General Purpose</b>     |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                |
| <b>Pulley Face Code</b>              | <b>C-Face</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>            |
| <b>Rodent Screen</b>                 | <b>None</b>                |
| <b>Service Factor</b>                | <b>1.15</b>                |
| <b>Shaft Diameter</b>                | <b>1.125 IN</b>            |
| <b>Shaft Extension Location</b>      | <b>Pulley End</b>          |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>          |
| <b>Speed</b>                         | <b>1725 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**

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | VL3605T      |      |     |      |   |       |    |   |  |
| SPEC.        | 36C03W223    |      |     |      |   |       |    |   |  |
| HP           | 2            |      |     |      |   |       |    |   |  |
| VOLTS        | 115/230      |      |     |      |   |       |    |   |  |
| AMP          | 23/11.5      |      |     |      |   |       |    |   |  |
| RPM          | 1725         |      |     |      |   |       |    |   |  |
| FRAME        | 182TC        |      | HZ  | 60   |   |       | PH | 1 |  |
| SER.F.       | 1.15         | CODE | H   | DES  | L | CLASS | F  |   |  |
| NEMA-NOM-EFF | 75.5         | PF   | 74  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6206         |      | ODE | 6205 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 61411

Typical performance - not guaranteed values

| Winding: 36WGW223-R004 |    |              |              | Type: 3628L                             |                       | Enclosure: TEFC |                             |
|------------------------|----|--------------|--------------|-----------------------------------------|-----------------------|-----------------|-----------------------------|
| Nameplate Data         |    |              |              | 115 V, 60 Hz:<br>Low Voltage Connection |                       |                 |                             |
| Rated Output (HP)      |    | 2            |              | Full Load Torque                        |                       | 6 LB-FT         |                             |
| Volts                  |    | 115/230      |              | Start Configuration                     |                       | direct on line  |                             |
| Full Load Amps         |    | 23/11.5      |              | Breakdown Torque                        |                       | 17.4 LB-FT      |                             |
| R.P.M.                 |    | 1725         |              | Pull-up Torque                          |                       | 11.4 LB-FT      |                             |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                     |                       | 14.4 LB-FT      |                             |
| NEMA Design Code       |    | L            | KVA Code     | H                                       | Starting Current      |                 | 142 A                       |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                         |                       | 14.2 A          |                             |
| NEMA Nom. Eff.         |    | 75.5         | Power Factor | 74                                      | Line-line Res. @ 25°C |                 | 0.239 Ω A Ph<br>1.14 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                 |                       | 75°C            |                             |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                  |                       | 88°C            |                             |
|                        |    |              |              | Locked-rotor Power Factor               |                       | 83.9            |                             |
|                        |    |              |              | Rotor inertia                           |                       | 0.263 LB-FT2    |                             |

**Load Characteristics 115 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 36   | 54   | 67   | 74   | 79   | 82   | 77   |
| Efficiency      | 61   | 73   | 75   | 75.5 | 74   | 73   | 74.6 |
| Speed           | 1788 | 1775 | 1760 | 1745 | 1730 | 1712 | 1736 |
| Line amperes    | 15   | 16.8 | 19.6 | 23   | 27.4 | 31.6 | 25.6 |

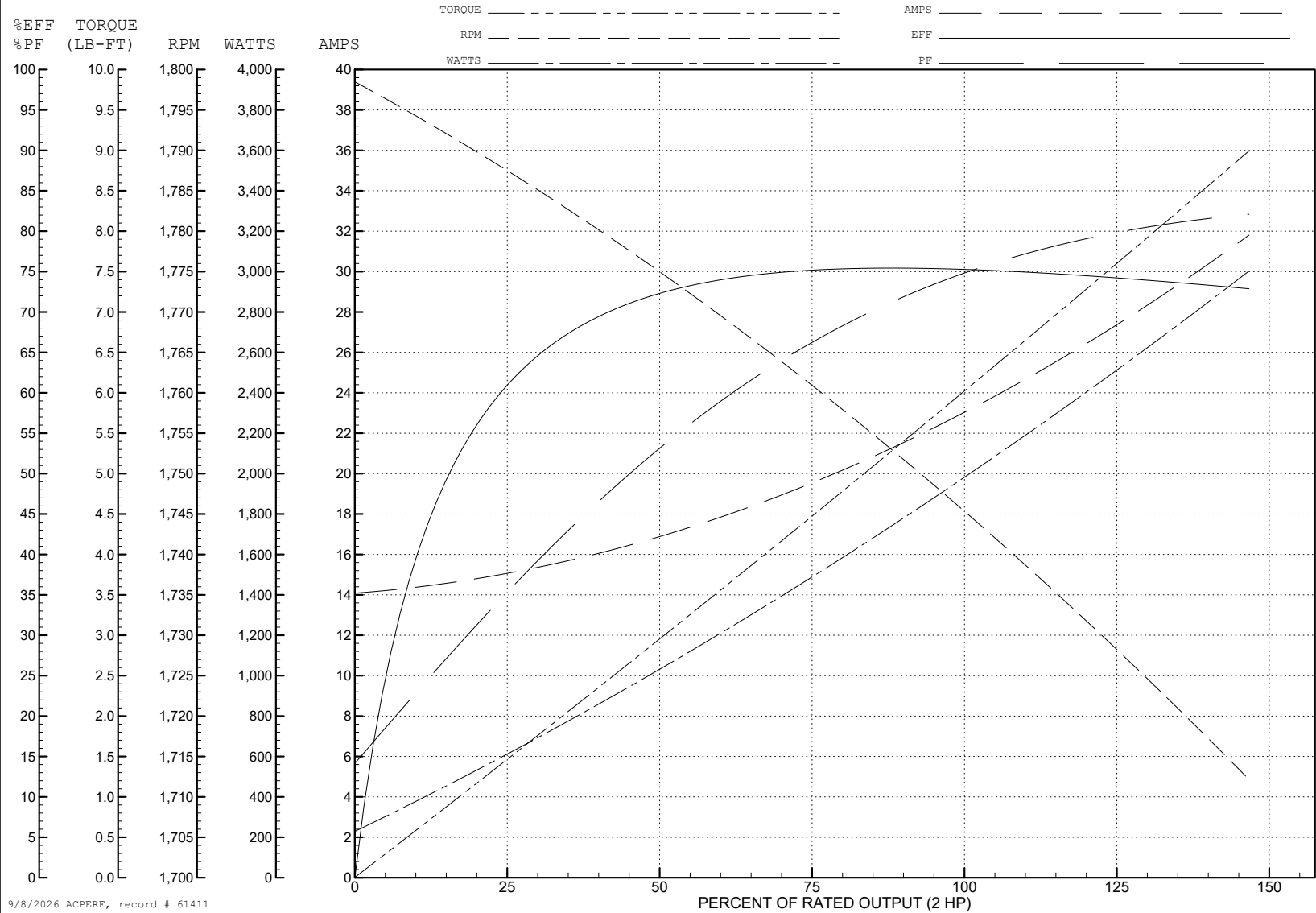
ABB Motors and Mechanical Inc.

WINDING # 36GW223

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 1725 RPM 115 V 3628L

TORQUES (LB-FT): PO=17.4 PU=11.4 LR=14.4 LRA=142





CD0001

