

# ABB BALDOR RELIANCE III

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## Customer information packet

### CTM3665T

5HP, 1750RPM, 3PH, 60HZ, 184T, 0634M, TEAO, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | TEAO                                                          |
| <b>Frame</b>                          | 184T                                                          |
| <b>Frame Material</b>                 | Iron                                                          |
| <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>             | 5.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>208.0 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>                 | Rigid                                                         |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                       |
| <b>Blower</b>                         | None                                                          |
| <b>Current @ Voltage</b>              | 7.200 A @ 460.0 V<br>14.600 A @ 208.0 V<br>14.400 A @ 230.0 V |
| <b>Design Code</b>                    | B                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 87.5 %                                                        |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                     |
| <b>Feedback Device</b>                | NO FEEDBACK                                                   |
| <b>Front Shaft Indicator</b>          | None                                                          |
| <b>Heater Indicator</b>               | No Heater                                                     |
| <b>High Voltage Full Load Amps</b>    | 7.2 a                                                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 06K700     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 06WGY807   |
| <b>Layout</b>       | 06LYK700   |
| <b>Eff. date</b>    | 08-11-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 10-19-2023 |

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>Insulation Class</b>              | <b>F</b>                            |
| <b>Inverter Code</b>                 | <b>Not Inverter</b>                 |
| <b>KVA Code</b>                      | <b>J</b>                            |
| <b>Lifting Lugs</b>                  | <b>Vertical Lifting Lugs</b>        |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>               |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 16 AWG</b>                   |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>                 |
| <b>Motor Standards</b>               | <b>NEMA</b>                         |
| <b>Motor Type</b>                    | <b>0634M</b>                        |
| <b>Mounting Arrangement</b>          | <b>F1</b>                           |
| <b>Number of Poles</b>               | <b>4</b>                            |
| <b>Overall Length</b>                | <b>13.68 IN</b>                     |
| <b>Power Factor</b>                  | <b>75</b>                           |
| <b>Product Family</b>                | <b>Chemical Processing (Not DC)</b> |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>               |
| <b>Pulley Face Code</b>              | <b>Standard</b>                     |
| <b>Pulley Shaft Indicator</b>        | <b>Tapped &amp; Key</b>             |
| <b>Rodent Screen</b>                 | <b>None</b>                         |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>               |
| <b>Service Factor</b>                | <b>1.15</b>                         |
| <b>Shaft Diameter</b>                | <b>1.125 IN</b>                     |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>           |
| <b>Shaft Rotation</b>                | <b>Reversible</b>                   |
| <b>Shaft Slinger Indicator</b>       | <b>Shaft Slinger</b>                |
| <b>Speed</b>                         | <b>1750 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

| NP1258       |                    |      |  |    |      |    |   |    |   |   |  |
|--------------|--------------------|------|--|----|------|----|---|----|---|---|--|
| CAT.NO.      | CTM3665T           |      |  |    |      |    |   |    |   |   |  |
| SPEC.        | 06K700Y807H1       |      |  |    |      |    |   |    |   |   |  |
| HP           | 5                  |      |  |    |      |    |   |    |   |   |  |
| VOLTS        | 208-230/460        |      |  |    |      |    |   |    |   |   |  |
| AMP          | 14.6-14.4/7.2      |      |  |    |      |    |   |    |   |   |  |
| RPM          | 1750               |      |  |    |      |    |   |    |   |   |  |
| FRAME        | 184T               | HZ   |  |    | 60   | PH |   |    | 3 |   |  |
| SER.F.       | 1.15               | CODE |  | J  | DES  |    | B | CL |   | F |  |
| NEMA-NOM-EFF | 87.5               | PF   |  | 75 |      |    |   |    |   |   |  |
| RATING       | 40C AMB-CONT       |      |  |    |      |    |   |    |   |   |  |
| CC           |                    |      |  |    |      |    |   |    |   |   |  |
| DE           | 6206               | ODE  |  |    | 6205 |    |   |    |   |   |  |
| ENCL         | TEAO               | SN   |  |    |      |    |   |    |   |   |  |
|              | 1650 FPM AT 100CFM |      |  |    |      |    |   |    |   |   |  |

**AC Induction Motor Performance Data**

Record # 102149

Typical performance - not guaranteed values

| Winding: 06WGY807-R001 |    |               | Type: 0634M                              |                     | Enclosure: TEAO |            |
|------------------------|----|---------------|------------------------------------------|---------------------|-----------------|------------|
| Nameplate Data         |    |               | 460 V, 60 Hz:<br>High Voltage Connection |                     |                 |            |
| Rated Output (HP)      |    | 5             | Full Load Torque                         |                     | 15.24 LB-FT     |            |
| Volts                  |    | 208-230/460   | Start Configuration                      |                     | direct on line  |            |
| Full Load Amps         |    | 14.6-14.4/7.2 | Breakdown Torque                         |                     | 47.7 LB-FT      |            |
| R.P.M.                 |    | 1750          | Pull-up Torque                           |                     | 31 LB-FT        |            |
| Hz                     | 60 | Phase         | 3                                        | Locked-rotor Torque |                 | 34.9 LB-FT |
| NEMA Design Code       |    | B             | KVA Code                                 |                     | J               |            |
| Service Factor (S.F.)  |    | 1.15          | Starting Current                         |                     | 46 A            |            |
| NEMA Nom. Eff.         |    | 87.5          | Power Factor                             |                     | 75              |            |
| Rating - Duty          |    | 40C           | AMB-CONT                                 |                     |                 |            |
| S.F. Amps              |    |               | Temp. Rise @ Rated Load                  |                     | 58°C            |            |
|                        |    |               | Temp. Rise @ S.F. Load                   |                     | 69°C            |            |
|                        |    |               | Locked-rotor Power Factor                |                     | 44.1            |            |
|                        |    |               | Rotor inertia                            |                     | 0.317 lb-ft²    |            |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150   | S.F. |
|-----------------|------|------|------|------|------|-------|------|
| Power Factor    | 36   | 56   | 69   | 75   | 80   | 82    | 77   |
| Efficiency      | 81.2 | 87   | 88.2 | 87.5 | 86.4 | 84.6  | 87.3 |
| Speed           | 1787 | 1775 | 1761 | 1746 | 1729 | 1710  | 1737 |
| Line amperes    | 4.17 | 4.9  | 5.87 | 7.19 | 8.57 | 10.21 | 7.96 |

ABB Motors and Mechanical Inc.

WINDING # 06WGY807

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 0634M

TORQUES (LB-FT): PO=47.7 PU=31 LR=34.9 LRA=46





