

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEWDM3556T

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 145TC

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                                                                  |
| <b>Frame</b>                          | 145TC                                                                                                 |
| <b>Frame Material</b>                 | Steel                                                                                                 |
| <b>Frequency</b>                      | 50.00 Hz<br>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>             | .750 HP @ 50 HZ<br>1.000 HP @ 60 HZ                                                                   |
| <b>Phase</b>                          | 3                                                                                                     |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                                                                      |
| <b>Voltage @ Frequency</b>            | 380.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>460.0 V @ 60 HZ                              |
| <b>Agency Approvals</b>               | CSA EEV<br>NEMA PREMIUM<br>UR                                                                         |
| <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>              | 3.500 A @ 208.0 V<br>3.200 A @ 190.0 V<br>3.000 A @ 230.0 V<br>1.600 A @ 380.0 V<br>1.500 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                                                                     |
| <b>Drip Cover</b>                     | No Drip Cover                                                                                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | E          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35S595     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGG019   |
| <b>Layout</b>       | 35LYS595   |
| <b>Eff. date</b>    | 08-12-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 02-23-2023 |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Duty Rating</b>                   | <b>CONT</b>                       |
| <b>Efficiency @ 100% Load</b>        | <b>82.5 %</b>                     |
| <b>Electrically Isolated Bearing</b> | <b>Not Electrically Isolated</b>  |
| <b>Feedback Device</b>               | <b>NO FEEDBACK</b>                |
| <b>Front Shaft Indicator</b>         | <b>None</b>                       |
| <b>Heater Indicator</b>              | <b>No Heater</b>                  |
| <b>High Voltage Full Load Amps</b>   | <b>1.5 a</b>                      |
| <b>Insulation Class</b>              | <b>F</b>                          |
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>             |
| <b>KVA Code</b>                      | <b>J</b>                          |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>            |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>             |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 18 AWG</b>                 |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>               |
| <b>Motor Standards</b>               | <b>NEMA</b>                       |
| <b>Motor Type</b>                    | <b>3526M</b>                      |
| <b>Mounting Arrangement</b>          | <b>F1</b>                         |
| <b>Number of Poles</b>               | <b>6</b>                          |
| <b>Overall Length</b>                | <b>13.28 IN</b>                   |
| <b>Power Factor</b>                  | <b>67</b>                         |
| <b>Product Family</b>                | <b>Wash Down</b>                  |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</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>0.875 IN</b>                   |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>         |
| <b>Shaft Rotation</b>                | <b>Reversible</b>                 |
| <b>Speed</b>                         | <b>1155 rpm</b><br><b>970 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>                       |

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

Nameplate

| NP1669L      |                        |      |     |        |   |       |   |  |  |
|--------------|------------------------|------|-----|--------|---|-------|---|--|--|
| CAT.NO.      | CEWDM3556T             |      |     |        |   |       |   |  |  |
| SPEC.        | 35S595G019             |      |     |        |   |       |   |  |  |
| HP           | 1//.75                 |      |     |        |   |       |   |  |  |
| VOLTS        | 230/460//190/380       |      |     |        |   |       |   |  |  |
| AMP          | 3/1.5//3.2/1.6         |      |     |        |   |       |   |  |  |
| RPM          | 1155//970              |      |     |        |   |       |   |  |  |
| FRAME        | 145TC                  |      | HZ  | 60//50 |   | PH    | 3 |  |  |
| SER.F.       | 1.15                   | CODE | J   | DES    | B | CLASS | F |  |  |
| NEMA-NOM-EFF | 82.5                   | PF   | 67  |        |   |       |   |  |  |
| RATING       | 40C AMB-CONT           |      |     |        |   |       |   |  |  |
| CC           |                        |      |     |        |   |       |   |  |  |
| DE           | 6205                   |      | ODE |        |   |       |   |  |  |
| ENCL         | TEFC                   | SN   |     |        |   |       |   |  |  |
| BLANK        | SFA 3.7/1.85//3.5/1.75 |      |     |        |   |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 54266

Typical performance - not guaranteed values

| Winding: 35WGM497-R012 |    |         | Type: 3526M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 1       | Full Load Torque                         |                     | 4.51 LB-FT                |            |              |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 3.6/1.8 | Breakdown Torque                         |                     | 15.3 LB-FT                |            |              |
| R.P.M.                 |    | 1155    | Pull-up Torque                           |                     | 11.1 LB-FT                |            |              |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 11.9 LB-FT |              |
| NEMA Design Code       |    | B       | KVA Code                                 | K                   | Starting Current          |            | 10.8 A       |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.21 A                    |            |              |
| NEMA Nom. Eff.         |    | 82.5    | Power Factor                             | 64                  | Line-line Res. @ 25°C     |            | 16.1 Ω       |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 47°C         |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |            | 56°C         |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |            | 41.5         |
|                        |    |         |                                          |                     | Rotor inertia             |            | 0.155 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 27   | 43   | 55   | 64   | 70   | 75   | 68   |
| Efficiency      | 69.2 | 79.4 | 82.1 | 82.7 | 82   | 80.4 | 82.4 |
| Speed           | 1190 | 1181 | 1170 | 1159 | 1146 | 1130 | 1151 |
| Line amperes    | 1.25 | 1.36 | 1.53 | 1.75 | 2.02 | 2.33 | 1.91 |

ABB Motors and Mechanical Inc.

WINDING # 35WGM497

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=15.3 PU=11.1 LR=11.9 LRA=10.8





