

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECTM2332T-G-AO

10 AIR OVERHP, 1180RPM, 3PH, 60HZ, 256T, 0960

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEAO                                                           |
| <b>Frame</b>                          | 256T                                                           |
| <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>             | 10.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CSA EEV<br>NEMA PREMIUM<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>              | 30.000 A @ 208.0 V<br>28.200 A @ 230.0 V<br>14.100 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 91.0 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |
| <b>Feedback Device</b>                | NO FEEDBACK                                                    |
| <b>Front Shaft Indicator</b>          | None                                                           |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | G          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09N187     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGT193   |
| <b>Layout</b>       | 09LYN187   |
| <b>Eff. date</b>    | 02-19-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 03-25-2022 |

|                               |                              |
|-------------------------------|------------------------------|
| Heater Indicator              | Heater Included, 115 V       |
| High Voltage Full Load Amps   | 14.1 a                       |
| Insulation Class              | F                            |
| Inverter Code                 | Inverter Ready               |
| KVA Code                      | H                            |
| Lifting Lugs                  | Vertical Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing               |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG                   |
| Motor Lead Termination        | Flying Leads                 |
| Motor Standards               | NEMA                         |
| Motor Type                    | 0960M                        |
| Mounting Arrangement          | F1                           |
| Number of Poles               | 6                            |
| Overall Length                | 23.09 IN                     |
| Power Factor                  | 72                           |
| Product Family                | Chemical Processing (Not DC) |
| Pulley End Bearing Type       | Sealed Bearing               |
| Pulley Face Code              | Standard                     |
| Pulley Shaft Indicator        | Tapped & Key                 |
| Rodent Screen                 | None                         |
| RoHS Status                   | ROHS COMPLIANT               |
| Service Factor                | 1.15                         |
| Shaft Diameter                | 1.625 IN                     |
| Shaft Ground Indicator        | Shaft Grounding              |
| Shaft Rotation                | Reversible                   |
| Shaft Slinger Indicator       | Shaft Slinger                |
| Speed                         | 1180 rpm                     |
| Speed Code                    | Single Speed                 |
| Starting Method               | Direct on line               |
| Thermal Device - Bearing      | None                         |
| Thermal Device - Winding      | None                         |
| Vibration Sensor Indicator    | No Vibration Sensor          |
| Winding Thermal 1             | None                         |
| Winding Thermal 2             | None                         |

**Nameplate**

| NP2178       |                 |      |    |      |    |    |   |  |  |
|--------------|-----------------|------|----|------|----|----|---|--|--|
| CAT.NO.      | ECTM2332T-G-AO  |      |    |      |    |    |   |  |  |
| SPEC.        | 09N187T193G1    |      |    |      |    |    |   |  |  |
| HP           | 10 AIR OVER     |      |    |      |    |    |   |  |  |
| VOLTS        | 230/460         |      |    |      |    |    |   |  |  |
| AMP          | 28.2/14.1       |      |    |      |    |    |   |  |  |
| RPM          | 1180            |      |    |      |    |    |   |  |  |
| FRAME        | 256T            | HZ   |    | 60   | PH |    | 3 |  |  |
| SER.F.       | 1.15            | CODE | H  | DES  | B  | CL | F |  |  |
| NEMA-NOM-EFF | 91              | PF   | 72 |      |    |    |   |  |  |
| RATING       | 40C AMB-CONT    |      |    |      |    |    |   |  |  |
| CC           |                 |      |    |      |    |    |   |  |  |
| DE           | 6309            | ODE  |    | 6208 |    |    |   |  |  |
| ENCL         | TEAO            | SN   |    |      |    |    |   |  |  |
|              | INV DUT 20:1 VT |      |    |      |    |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 52109

Typical performance - not guaranteed values

| Winding: 09WGT193-R004 |          |              | Type: 0960M                              |  | Enclosure: TEAO |                       |         |
|------------------------|----------|--------------|------------------------------------------|--|-----------------|-----------------------|---------|
| Nameplate Data         |          |              | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |                       |         |
| Rated Output (HP)      |          | 10 AIR OVER  | Full Load Torque                         |  | 44.3 LB-FT      |                       |         |
| Volts                  |          | 230/460      | Start Configuration                      |  | direct on line  |                       |         |
| Full Load Amps         |          | 28.2/14.1    | Breakdown Torque                         |  | 121 LB-FT       |                       |         |
| R.P.M.                 |          | 1180         | Pull-up Torque                           |  | 50.6 LB-FT      |                       |         |
| Hz                     | 60 Phase | 3            | Locked-rotor Torque                      |  | 67 LB-FT        |                       |         |
| NEMA Design Code       |          | B            | KVA Code                                 |  | H               | Starting Current      | 81 A    |
| Service Factor (S.F.)  |          | 1.15         | No-load Current                          |  | 6.84 A          |                       |         |
| NEMA Nom. Eff.         |          | 91           | Power Factor                             |  | 72              | Line-line Res. @ 25°C | 0.746 Ω |
| Rating - Duty          |          | 40C AMB-CONT | Temp. Rise @ Rated Load                  |  | 38°C            |                       |         |
| S.F. Amps              |          |              | Temp. Rise @ S.F. Load                   |  | 46°C            |                       |         |
|                        |          |              | Locked-rotor Power Factor                |  | 24.9            |                       |         |
|                        |          |              | Rotor inertia                            |  | 4.82 LB-FT2     |                       |         |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 36   | 57   | 67   | 72   | 74   | 75   | 73   |
| Efficiency      | 85.8 | 90.7 | 91.9 | 91.7 | 91.1 | 89.4 | 91.3 |
| Speed           | 1195 | 1191 | 1186 | 1181 | 1174 | 1166 | 1177 |
| Line amperes    | 7.45 | 9.13 | 11.4 | 14.1 | 17.3 | 21.1 | 16   |

ABB Motors and Mechanical Inc.

WINDING # 09WGT193

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1180 RPM 460 V 0960M

TORQUES (LB-FT): PO=121 PU=50.6 LR=67 LRA=81





