

# ABB BALDOR RELIANCE III

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## Customer information packet

### HBEM3774T

48M 4P TEFC HOR 215T

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 215T                                                           |
| <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>  | 1800 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CURUSEEV<br>NEMA PREMIUM<br>WEEE                               |
| <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>              | 24.600 A @ 230.0 V<br>27.000 A @ 208.0 V<br>12.300 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>         | 91.7 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Electrically Isolated Bearings                                 |
| <b>Feedback Device</b>                | NO FEEDBACK                                                    |
| <b>Front Shaft Indicator</b>          | None                                                           |
| <b>Heater Indicator</b>               | No Heater                                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | G          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 07D743     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 07WGT511   |
| <b>Layout</b>       | 07LYD743   |
| <b>Eff. date</b>    | 02-03-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-05-2022 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 12.3 a                |
| Insulation Class              | H                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Max Speed                     | 2700 rpm              |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0748M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 18.45 IN              |
| Power Factor                  | 83                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Sealed Bearing        |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.375 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1765 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

| NP4312A01A01L |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
|---------------|---|--------------|---|--------|--|-----------|-----|---------|---------|------|--------------|----|----|------|-------|------|------|---------------|--|--|-----|--|
| CAT #         |   | HBEM3774T    |   |        |  |           |     |         | SER     |      |              |    |    |      | CC    | 010A |      | WGT           |  |  | LBS |  |
| SPEC          |   | 07D743T511G1 |   |        |  |           |     |         | RATING  |      | 40C AMB-CONT |    |    |      |       |      |      |               |  |  |     |  |
| HZ            |   | VOLTS        |   |        |  | AMPS      |     |         |         | RPM  |              |    |    | HP   |       | SF   |      | NEMA NOM. EFF |  |  |     |  |
| 60            |   | 230/460      |   |        |  | 24.6/12.3 |     |         |         | 1765 |              |    |    | 10   |       | 1.15 |      | 91.7          |  |  |     |  |
| PH            | 3 | CL           | H | CODE   |  | H         | DES | B       | ENCL    | TEFC |              | IP | 54 | PF   | 83    | %    |      |               |  |  |     |  |
| DE BRG        |   | 6307         |   |        |  |           |     |         | ODE BRG |      | 6206         |    |    |      | FRAME |      | 215T |               |  |  |     |  |
| INV TYPE:     |   | VPWM         |   |        |  | SL HZ     |     | 1.17    |         | CHP  |              | 60 | TO | 90   | 1.5:1 |      |      |               |  |  |     |  |
| WK2           |   | 1.18         |   | LB FT2 |  |           |     | MAX RPM |         | 2700 |              | CT | 6  | TO   | 60    | 10:1 |      |               |  |  |     |  |
| 9.4/4.7       |   |              |   |        |  |           |     |         | VT      |      | 3            | TO | 60 | 20:1 |       |      |      |               |  |  |     |  |
| SFA 28.2/14.1 |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
|               |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
|               |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
|               |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
|               |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |
| YR            |   |              |   |        |  |           |     |         |         |      |              |    |    |      |       |      |      |               |  |  |     |  |

**AC Induction Motor Performance Data**

Record # 92021

Typical performance - not guaranteed values

| Winding: 07WGT511-R007 |    |              | Type: 0748M  |                                          | Enclosure: TEFC |                       |        |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|-----------------------|--------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                       |        |
| Rated Output (HP)      |    | 10           |              | Full Load Torque                         |                 | 29.8 LB-FT            |        |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line        |        |
| Full Load Amps         |    | 24.6/12.3    |              | Breakdown Torque                         |                 | 84.1 LB-FT            |        |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                           |                 | 39.8 LB-FT            |        |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 50.9 LB-FT            |        |
| NEMA Design Code       |    | B            | KVA Code     | H                                        |                 | Starting Current      | 85.9 A |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                 | 4.67 A                |        |
| NEMA Nom. Eff.         |    | 91.7         | Power Factor | 83                                       |                 | Line-line Res. @ 25°C | 1.09 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 70°C                  |        |
| S.F. Amps              |    | 28.2/14.1    |              | Temp. Rise @ S.F. Load                   |                 | 87°C                  |        |
|                        |    |              |              | Locked-rotor Power Factor                |                 | 35.2                  |        |
|                        |    |              |              | Rotor inertia                            |                 | 1.18 lb-ft²           |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 48   | 70   | 79   | 83   | 85   | 85   | 84   |
| Efficiency      | 89.7 | 92.7 | 92.6 | 91.6 | 90.6 | 88.8 | 91   |
| Speed           | 1791 | 1783 | 1774 | 1763 | 1752 | 1739 | 1756 |
| Line amperes    | 5.44 | 7.24 | 9.6  | 12.3 | 15.3 | 18.6 | 14.1 |

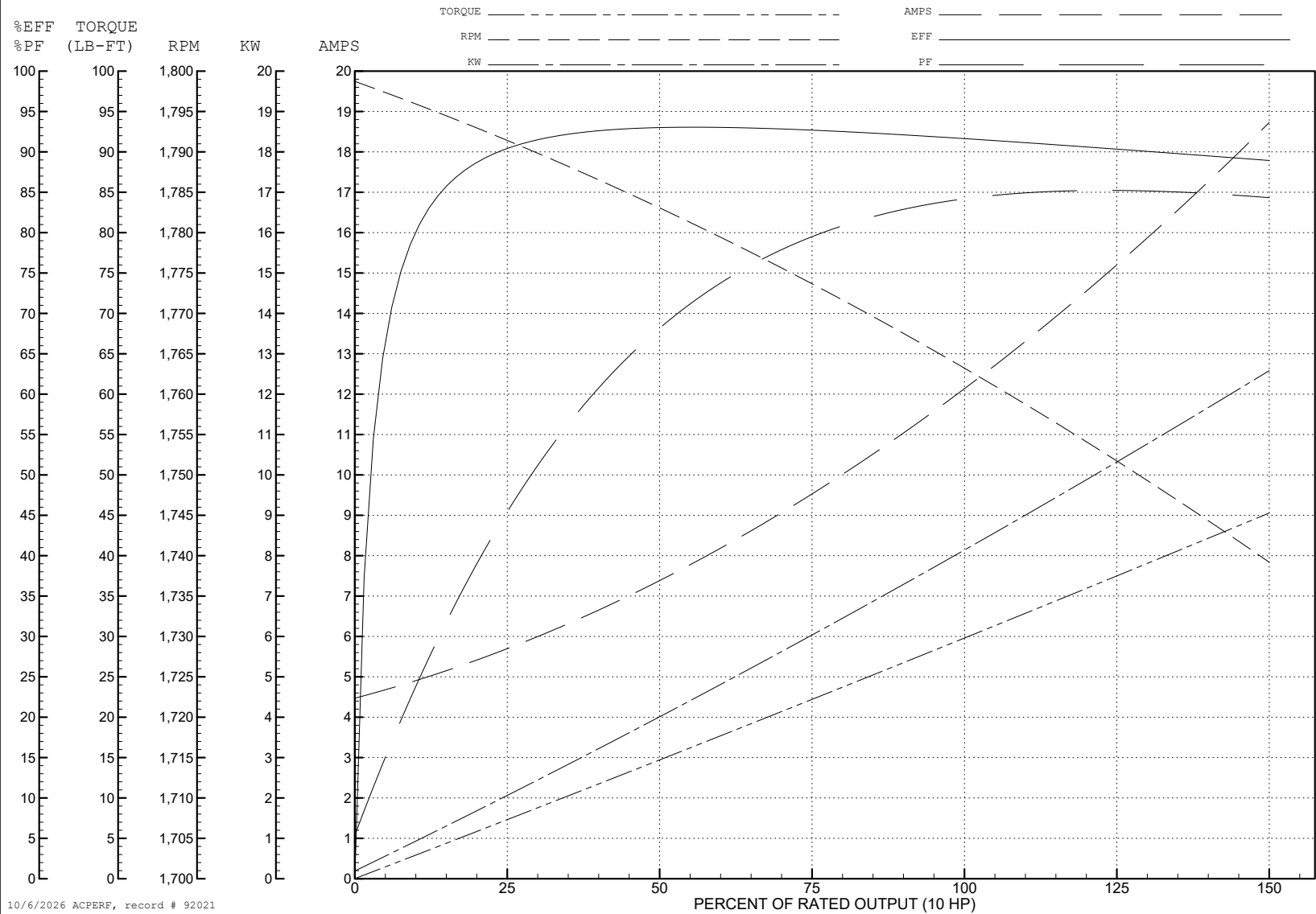
ABB Motors and Mechanical Inc.

WINDING # 07WGT511

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M

TORQUES (LB-FT): PO=84.1 PU=39.8 LR=50.9 LRA=85.9



10/6/2026 ACPERF, record # 92021



