

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM3768T-BG

5HP, 1160RPM, 3PH, 60HZ, 215T, TEFC, F1

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>             | 5.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| <b>Agency Approvals</b>               | CSA<br>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>              | 7.400 A @ 460.0 V<br>15.300 A @ 208.0 V<br>14.800 A @ 230.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 89.5 %                                                        |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                     |
| <b>Feedback Device</b>                | NO FEEDBACK                                                   |
| <b>Heater Indicator</b>               | No Heater                                                     |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | E          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 07WGY763   |
| <b>Layout</b>       | 07LYN555   |
| <b>Eff. date</b>    | 04-29-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-12-2019 |

|                             |                       |
|-----------------------------|-----------------------|
| High Voltage Full Load Amps | 7.4 a                 |
| Insulation Class            | H                     |
| Inverter Code               | Inverter Ready        |
| IP Rating                   | NONE                  |
| KVA Code                    | K                     |
| Lifting Lugs                | Standard Lifting Lugs |
| Locked Bearing Indicator    | Locked Bearing        |
| Motor Lead Termination      | Flying Leads          |
| Motor Standards             | NEMA                  |
| Motor Type                  | 0746M                 |
| Mounting Arrangement        | F1                    |
| Number of Poles             | 6                     |
| Overall Length              | 18.45 IN              |
| Power Factor                | 71                    |
| Product Family              | General Purpose       |
| Pulley Face Code            | Standard              |
| Rodent Screen               | None                  |
| Service Factor              | 1.15                  |
| Shaft Diameter              | 1.375 IN              |
| Shaft Ground Indicator      | Shaft Grounding       |
| Shaft Rotation              | Reversible            |
| Speed                       | 1160 rpm              |
| Speed Code                  | Single Speed          |
| Starting Method             | Direct on line        |
| Thermal Device - Winding    | None                  |
| Vibration Sensor Indicator  | No Vibration Sensor   |
| Winding Thermal 1           | None                  |
| Winding Thermal 2           | None                  |

Nameplate

| NP3441LUA                   |              |      |    |      |     |   |       |  |       |
|-----------------------------|--------------|------|----|------|-----|---|-------|--|-------|
| CAT.NO.                     | EM3768T-BG   |      |    |      |     |   |       |  |       |
| SPEC                        | 07-0000-0096 |      |    |      |     |   |       |  |       |
| HP                          | 5            |      |    |      |     |   |       |  |       |
| VOLTS                       | 230/460      |      |    |      |     |   |       |  |       |
| AMPS                        | 14.8/7.4     |      |    |      |     |   |       |  |       |
| RPM                         | 1160         |      |    |      |     |   |       |  |       |
| FRAME                       | 215T         |      | HZ |      | 60  |   | PH    |  | 3     |
| SF                          | 1.15         | CODE |    | K    | DES | A | CLASS |  | H     |
| NEMA NOM. EFF               | 89.5         | PF   |    | 71   |     |   |       |  |       |
| RATING                      | 40C AMB-CONT |      |    |      |     |   |       |  |       |
| CC                          | 010A         |      |    |      |     |   |       |  |       |
| ENCL                        | TEFC         | SER  |    |      |     |   |       |  |       |
| DE                          | 6307         | ODE  |    | 6307 |     |   |       |  |       |
| VPWM INVERTER READY         |              |      |    |      |     |   |       |  |       |
| CT6-60H(10:1)VT3-60H(20:1   |              |      |    |      |     |   |       |  |       |
| 50HZ 5HP 190/380V 17.2/8.6A |              |      |    |      |     |   |       |  | SF1.0 |

**AC Induction Motor Performance Data**

Record # 70547

Typical performance - not guaranteed values

| Winding: 07WGY763-R009 |  |          | Type: 0746M |                                          | Enclosure: TEFC |                |
|------------------------|--|----------|-------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |  |          |             | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |  | 5        |             | Full Load Torque                         |                 | 22.6 LB-FT     |
| Volts                  |  | 230/460  |             | Start Configuration                      |                 | direct on line |
| Full Load Amps         |  | 14.8/7.4 |             | Breakdown Torque                         |                 | 80.9 LB-FT     |
| R.P.M.                 |  | 1160     |             | Pull-up Torque                           |                 | 51.4 LB-FT     |
| Hz                     |  | 60       |             | Phase                                    |                 | 3              |
| NEMA Design Code       |  | A        |             | KVA Code                                 |                 | K              |
| Service Factor (S.F.)  |  | 1.15     |             | Starting Current                         |                 | 55.3 A         |
| NEMA Nom. Eff.         |  | 89.5     |             | Power Factor                             |                 | 71             |
| Rating - Duty          |  | 40C      |             | AMB-CONT                                 |                 |                |
|                        |  |          |             | Temp. Rise @ Rated Load                  |                 |                |
|                        |  |          |             | Locked-rotor Power Factor                |                 | 22.2           |
|                        |  |          |             | Rotor inertia                            |                 | 1.14 LB-FT2    |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 34   | 51   | 63   | 70   | 73   | 75   | 72   |
| Efficiency      | 81.5 | 89.5 | 90   | 89.7 | 88.7 | 87.7 | 89.1 |
| Speed           | 1193 | 1187 | 1179 | 1171 | 1163 | 1153 | 1166 |
| Line amperes    | 4.42 | 5.17 | 6.31 | 7.56 | 9.04 | 10.6 | 8.45 |

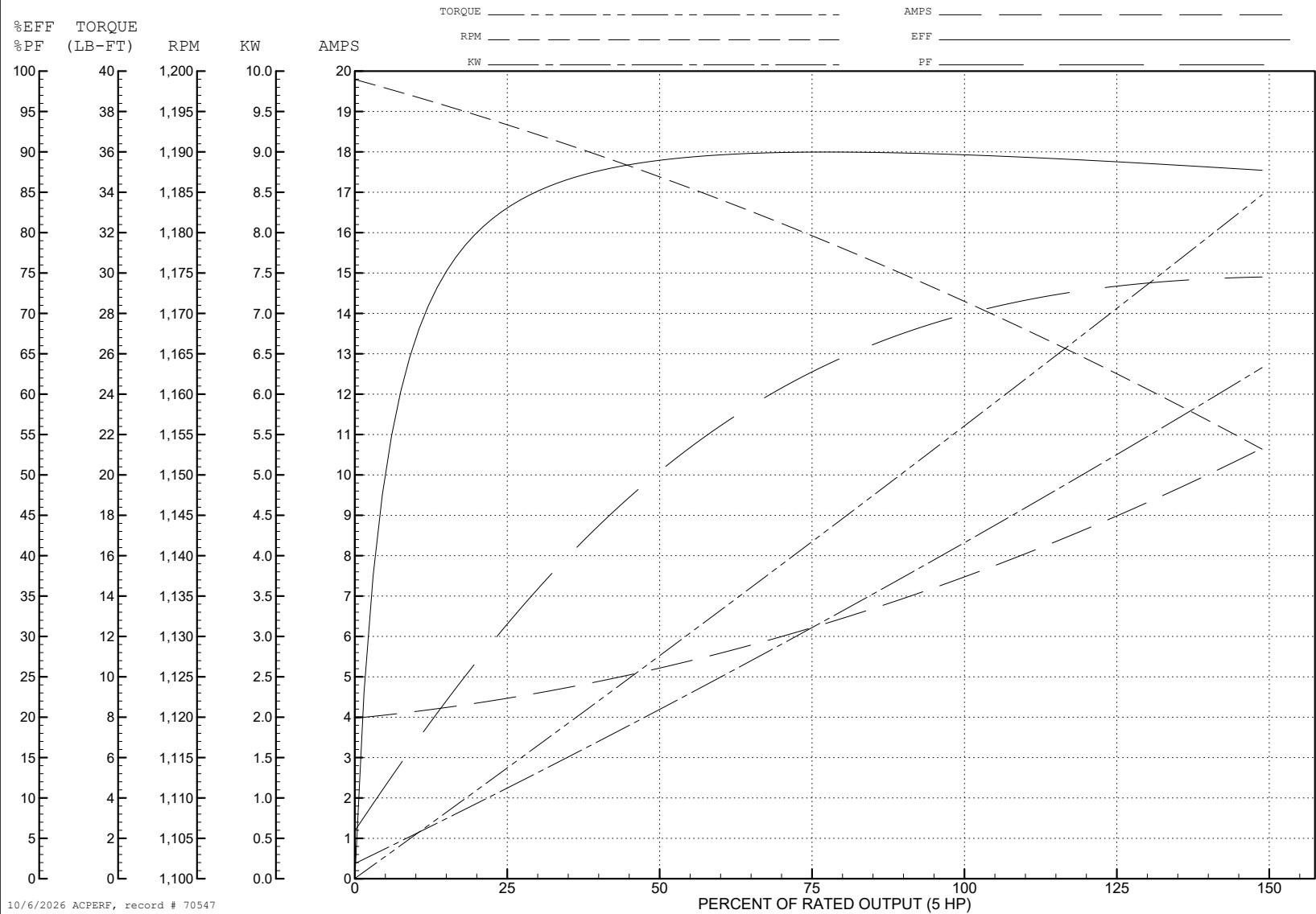
ABB Motors and Mechanical Inc.

WINDING # 07WGY763

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

TORQUES (LB-FT): PO=80.9 PU=51.4 LR=56.4 LRA=55.3



10/6/2026 ACPERF, record # 70547

