

# ABB BALDOR RELIANCE III

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## Customer information packet

### DRX251544T

15HP, 1765//1470RPM, 3PH, 60HZ, 254T, XPFC, F1

Class - CLI GP C,D

Division - Division I

**Specifications**

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                                                 |
| <b>Frame</b>                          | 254T                                                                                 |
| <b>Frame Material</b>                 | Iron                                                                                 |
| <b>Frequency</b>                      | 50.00 Hz<br>60.00 Hz                                                                 |
| <b>Haz Area Class and Group</b>       | CLI GP C,D                                                                           |
| <b>Haz Area Division</b>              | Division I                                                                           |
| <b>Motor Letter Type</b>              | Three Phase                                                                          |
| <b>Output @ Frequency</b>             | 10.000 HP @ 50 HZ<br>15.000 HP @ 60 HZ                                               |
| <b>Phase</b>                          | 3                                                                                    |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                                                     |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>460.0 V @ 60 HZ<br>380.0 V @ 50 HZ             |
| <b>Agency Approvals</b>               | UL<br>CSA EEV                                                                        |
| <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>Constant Torque Speed Range</b>    | 6                                                                                    |
| <b>Current @ Voltage</b>              | 36.200 A @ 230.0 V<br>30.400 A @ 190.0 V<br>18.100 A @ 460.0 V<br>15.200 A @ 380.0 V |
| <b>Design Code</b>                    | A                                                                                    |
| <b>Drip Cover</b>                     | No Drip Cover                                                                        |
| <b>Duty Rating</b>                    | CONT                                                                                 |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | M          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGGZ910  |
| <b>Layout</b>       | 09LYJ480   |
| <b>Eff. date</b>    | 04-09-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 03-08-2019 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Efficiency @ 100% Load</b>        | 92.4 %                     |
| <b>Electrically Isolated Bearing</b> | Not Electrically Isolated  |
| <b>Enclosure Modification</b>        | Severe Duty Features       |
| <b>Feedback Device</b>               | NO FEEDBACK                |
| <b>Haz Area Temp Code</b>            | T3C                        |
| <b>Heater Indicator</b>              | No Heater                  |
| <b>High Voltage Full Load Amps</b>   | 15.2 a                     |
| <b>Insulation Class</b>              | F                          |
| <b>Inverter Code</b>                 | Inverter Duty              |
| <b>IP Rating</b>                     | IP55                       |
| <b>KVA Code</b>                      | H                          |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs      |
| <b>Locked Bearing Indicator</b>      | Locked Bearing             |
| <b>Max Speed</b>                     | 2700 rpm                   |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | 0944M                      |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 4                          |
| <b>Overall Length</b>                | 25.50 IN                   |
| <b>Power Factor</b>                  | 83                         |
| <b>Product Family</b>                | Chemical Process Features  |
| <b>Pulley Face Code</b>              | Standard                   |
| <b>Rodent Screen</b>                 | None                       |
| <b>RoHS Status</b>                   | ROHS NON-COMPLIANT         |
| <b>Service Factor</b>                | 1.00                       |
| <b>Shaft Diameter</b>                | 1.625 IN                   |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding         |
| <b>Shaft Rotation</b>                | Reversible                 |
| <b>Speed</b>                         | 1765 rpm                   |
| <b>Speed Code</b>                    | Single Speed               |
| <b>Starting Method</b>               | Direct on line             |
| <b>Thermal Device - Bearing</b>      | None                       |
| <b>Thermal Device - Winding</b>      | Normally Closed Thermostat |

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

**Nameplate**

| NP1401XPSLEV |                             |        |   |              |     |                     |              |          |    |  |  |
|--------------|-----------------------------|--------|---|--------------|-----|---------------------|--------------|----------|----|--|--|
| NO.          |                             |        |   |              |     | CC                  | 010A         |          |    |  |  |
| S/N          |                             |        |   |              |     | TEMP CODE           | T3C          |          |    |  |  |
| SPEC.        | 09-0000-1187                |        |   |              |     | INV.TYPE            | PWM          |          |    |  |  |
| CAT.NO.      | DRX251544T                  |        |   |              |     | C HP FR             | 60           | C HP TO  | 90 |  |  |
| HP           | 15//10                      |        |   |              |     | CT HZ FROM          | 6            | CT HZ TO | 60 |  |  |
| VOLTS        | 230/460//190/380            |        |   |              |     | VT HZ FROM          | 6            | VT HZ TO | 60 |  |  |
| AMPS         | 36.2/18.1//30.4/15.2        |        |   |              |     | MAG CUR             | 16/8//15/7.5 |          |    |  |  |
| RPM          | 1765//1470                  |        |   |              |     | MX RPM              | 2700         |          |    |  |  |
| HZ           | 60//50                      | PH     | 3 | CL           | F   | NOM.EFF.            | 92.4         |          |    |  |  |
| SER.F.       | 1.00                        | DES    | A | SL HZ        | 1.2 | WK2                 | 1.93         |          |    |  |  |
| FRAME        | 254T                        | RATING |   | 40C AMB-CONT |     |                     |              |          |    |  |  |
|              | 55C AMB @ 1.00 SF, 60C RISE |        |   |              |     |                     |              |          |    |  |  |
|              | 1.15SF ON SINEWAVE          |        |   |              |     | NEMA MG-1 PT.5,IP55 |              |          |    |  |  |

**AC Induction Motor Performance Data**

Record # 51149

Typical performance - not guaranteed values

| Winding: 09WGZ910-R044 |    |              | Type: 0944M  |                                          | Enclosure: XPFC |                       |           |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|-----------------------|-----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                       |           |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                         |                 | 44.5 LB-FT            |           |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line        |           |
| Full Load Amps         |    | 36.2/18.1    |              | Breakdown Torque                         |                 | 153 LB-FT             |           |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                           |                 | 69.5 LB-FT            |           |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 86.5 LB-FT            |           |
| NEMA Design Code       |    | A            | KVA Code     | H                                        |                 | Starting Current      | 127 A     |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                 | 7.56 A                |           |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor | 83                                       |                 | Line-line Res. @ 25°C | 0.59555 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 54°C                  |           |
|                        |    |              |              | Locked-rotor Power Factor                |                 | 33                    |           |
|                        |    |              |              | Rotor inertia                            |                 | 1.92 LB-FT2           |           |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    |
|-----------------|--------|--------|------|--------|--------|--------|
| Power Factor    | 45     | 69     | 79   | 83     | 85     | 87     |
| Efficiency      | 88.2   | 92.2   | 92.7 | 92.4   | 91.5   | 90.4   |
| Speed           | 1791.3 | 1783.1 | 1774 | 1765.2 | 1754.6 | 1743.1 |
| Line amperes    | 8.62   | 11     | 14.5 | 18.1   | 22.6   | 26.9   |

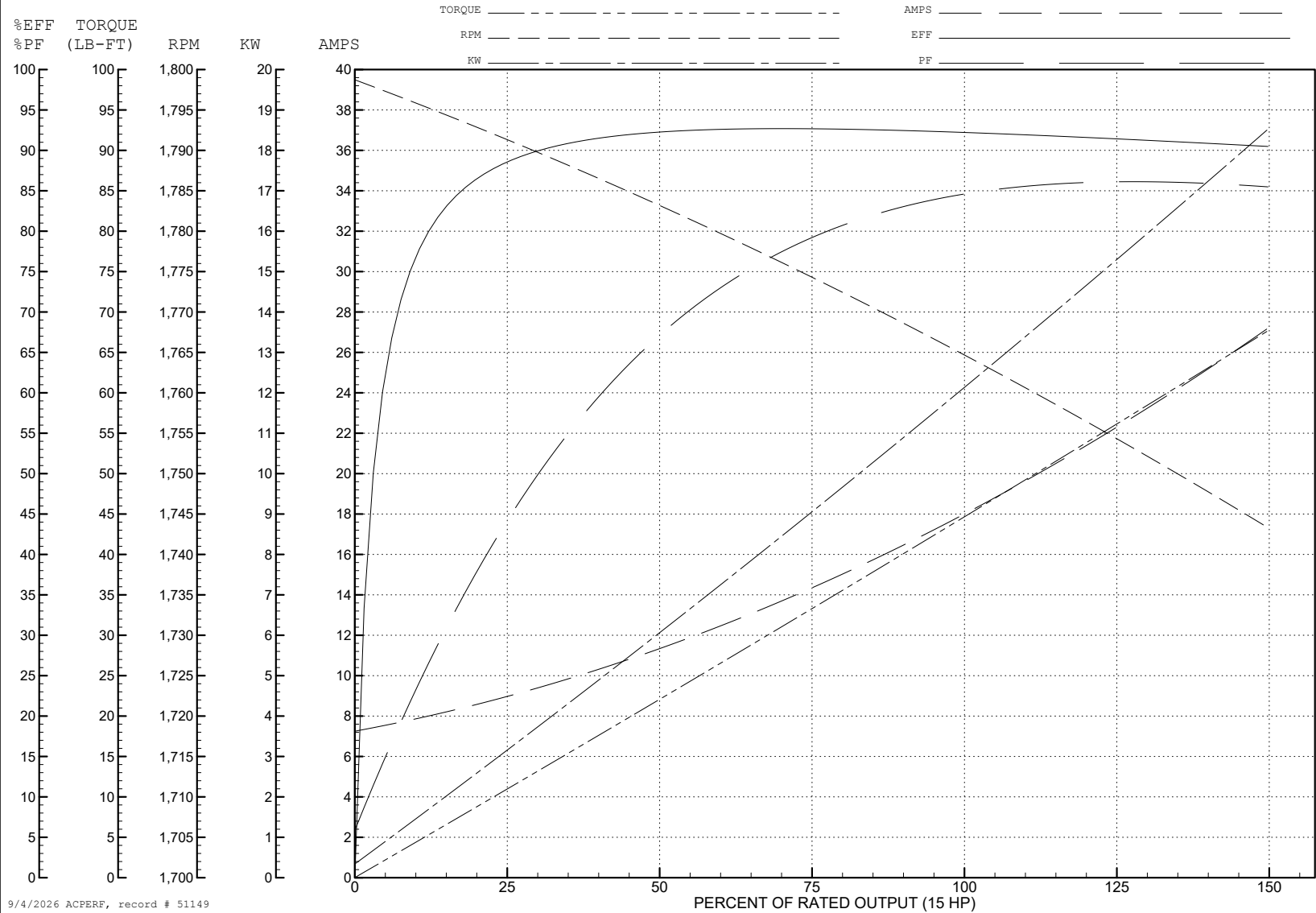
ABB Motors and Mechanical Inc.

WINDING # 09WGZ910

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127



**AC Induction Motor Performance Data**

Record # 75708

Typical performance - not guaranteed values

| Winding: 09WGZ910-R063 |  |                      |  | Type: 0944M                              |  | Enclosure: XPFC |  |
|------------------------|--|----------------------|--|------------------------------------------|--|-----------------|--|
| Nameplate Data         |  |                      |  | 380 V, 50 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |  | 15//10               |  | Full Load Torque                         |  | 35.63 LB-FT     |  |
| Volts                  |  | 230/460//190/380     |  | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |  | 36.2/18.1//30.4/15.2 |  | Breakdown Torque                         |  | 147 LB-FT       |  |
| R.P.M.                 |  | 1765//1470           |  | Pull-up Torque                           |  | 71.45 LB-FT     |  |
| Hz                     |  | 60//50               |  | Phase                                    |  | 3               |  |
| NEMA Design Code       |  | A                    |  | KVA Code                                 |  | H               |  |
| Service Factor (S.F.)  |  | 1                    |  | No-load Current                          |  | 7.42 A          |  |
| NEMA Nom. Eff.         |  | 92.4                 |  | Power Factor                             |  | 83              |  |
| Rating - Duty          |  | 40C                  |  | AMB-CONT                                 |  |                 |  |
|                        |  |                      |  | Locked-rotor Power Factor                |  | 36.5            |  |
|                        |  |                      |  | Rotor inertia                            |  | 1.92 lb-ft²     |  |

**Load Characteristics 380 V, 50 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75    | 100   | 125   | 150   |
|-----------------|------|------|-------|-------|-------|-------|
| Power Factor    | 40   | 63   | 74    | 81    | 83    | 86    |
| Efficiency      | 86.7 | 91.4 | 92.1  | 92    | 91.2  | 90.3  |
| Speed           | 1493 | 1486 | 1479  | 1472  | 1463  | 1454  |
| Line amperes    | 8.14 | 9.82 | 12.46 | 15.18 | 18.67 | 21.93 |

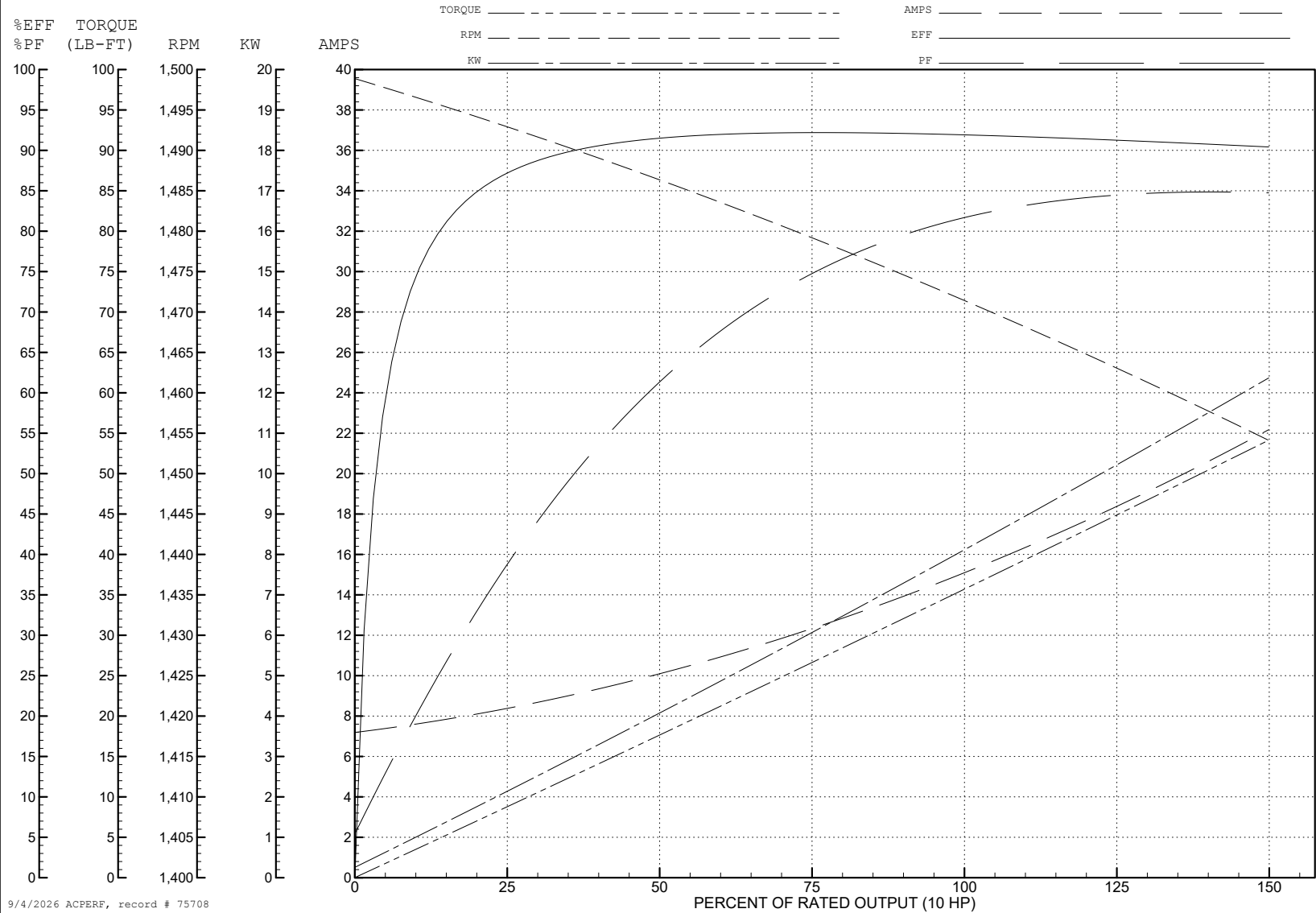
ABB Motors and Mechanical Inc.

WINDING # 09WGZ910

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1472 RPM 380 V 0944M

TORQUES (LB-FT): PO=147 PU=71.45 LR=88.92 LRA=123



9/4/2026 ACPERF, record # 75708

