

# ABB BALDOR RELIANCE III

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## Customer information packet

JML1511T

10HP, 3450RPM, 1PH, 60HZ, 215JM, 3740L, OPEN, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPEN                                     |
| Frame                          | 215JM                                    |
| Frame Material                 | Steel                                    |
| Frequency                      | 60.00 Hz                                 |
| Haz Area Class and Group       | None                                     |
| Haz Area Division              | Not Applicable                           |
| Motor Letter Type              | Cap Start, Induction Run                 |
| Output @ Frequency             | 10.000 HP @ 60 HZ                        |
| Phase                          | 1                                        |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ                          |
| Agency Approvals               | CSA<br>UR                                |
| Ambient Temperature            | 40 °C                                    |
| Auxiliary Box                  | NO AUXILLARY BOX                         |
| Auxiliary Box Lead Termination | None                                     |
| Base Indicator                 | Rigid                                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                  |
| Blower                         | None                                     |
| Current @ Voltage              | 48.000 A @ 208.0 V<br>46.000 A @ 230.0 V |
| Design Code                    | L                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 83.0 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Face Code                | Standard                                 |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 46.0 a                                   |
| Insulation Class               | F                                        |

**Part Detail**

|              |                    |
|--------------|--------------------|
| Revision     | V                  |
| Type         | AC                 |
| Mech. spec.  | 37K266             |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | 37WGX047           |
| Layout       | 37LYK266           |
| Eff. date    | 05-13-2024         |
| CD Diagram   | CD0017A01          |
| Poles        | 02                 |
| Leads        | 2#8 A PH,2#14 B PH |
| Proprietary  | False              |
| Created date | 03-08-2007         |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Inverter Code</b>                 | Not Inverter        |
| <b>KVA Code</b>                      | G                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Motor Lead Exit</b>               | Ko Box              |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 8 AWG, A PH     |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3740L               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 2                   |
| <b>Overall Length</b>                | 19.31 IN            |
| <b>Power Factor</b>                  | 86                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | C-Face              |
| <b>Pulley Shaft Indicator</b>        | Tapped & Key        |
| <b>Rodent Screen</b>                 | Included            |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 1.000 IN            |
| <b>Shaft Extension Location</b>      | Pulley End          |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger       |
| <b>Speed</b>                         | 3450 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>      | None                |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor |
| <b>Winding Thermal 1</b>             | None                |
| <b>Winding Thermal 2</b>             | None                |

**Nameplate**

| NP1256L      |              |  |      |      |     |   |       |   |  |
|--------------|--------------|--|------|------|-----|---|-------|---|--|
| CAT.NO.      | JML1511T     |  |      |      |     |   |       |   |  |
| SPEC.        | 37K266X047G1 |  |      |      |     |   |       |   |  |
| HP           | 10           |  |      |      |     |   |       |   |  |
| VOLTS        | 230          |  |      |      |     |   |       |   |  |
| AMP          | 46           |  |      |      |     |   |       |   |  |
| RPM          | 3450         |  |      |      |     |   |       |   |  |
| FRAME        | 215JM        |  | HZ   | 60   |     |   | PH    | 1 |  |
| SER.F.       | 1.15         |  | CODE | G    | DES | L | CLASS | F |  |
| NEMA-NOM-EFF | 83           |  | PF   | 86   |     |   |       |   |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |       |   |  |
| CC           |              |  |      |      |     |   |       |   |  |
| DE           | 6309         |  | ODE  | 6206 |     |   |       |   |  |
| ENCL         | OPEN         |  | SN   |      |     |   |       |   |  |

**AC Induction Motor Performance Data**

Record # 11971

Typical performance - not guaranteed values

| Winding: 37WGX047-R001 |    |       | Type: 3740L                           |                     | Enclosure: OPEN         |                       |       |                              |
|------------------------|----|-------|---------------------------------------|---------------------|-------------------------|-----------------------|-------|------------------------------|
| Nameplate Data         |    |       | 230 V, 60 Hz:<br>Single Voltage Motor |                     |                         |                       |       |                              |
| Rated Output (HP)      |    | 10    | Full Load Torque                      |                     | 15 LB-FT                |                       |       |                              |
| Volts                  |    | 230   | Start Configuration                   |                     | direct on line          |                       |       |                              |
| Full Load Amps         |    | 46    | Breakdown Torque                      |                     | 46.4 LB-FT              |                       |       |                              |
| R.P.M.                 |    | 3450  | Pull-up Torque                        |                     | 27.6 LB-FT              |                       |       |                              |
| Hz                     | 60 | Phase | 1                                     | Locked-rotor Torque |                         | 30.6 LB-FT            |       |                              |
| NEMA Design Code       |    | L     | KVA Code                              | G                   | Starting Current        |                       | 280 A |                              |
| Service Factor (S.F.)  |    | 1.15  | No-load Current                       |                     | 19.3 A                  |                       |       |                              |
| NEMA Nom. Eff.         |    | 83    | Power Factor                          |                     | 86                      | Line-line Res. @ 25°C |       | 0.163 Ω A Ph<br>0.728 Ω B Ph |
| Rating - Duty          |    | 40C   | AMB-CONT                              |                     | Temp. Rise @ Rated Load |                       | 100°C |                              |
| S.F. Amps              |    |       | Temp. Rise @ S.F. Load                |                     | 115°C                   |                       |       |                              |

**Load Characteristics 230 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 56   | 72   | 82   | 86   | 88   | 87   | 87   |
| Efficiency      | 63   | 79.3 | 81.1 | 83.7 | 82.8 | 80.7 | 83.2 |
| Speed           | 3587 | 3570 | 3552 | 3536 | 3512 | 3482 | 3522 |
| Line amperes    | 23.5 | 29   | 37.2 | 45.5 | 55.6 | 68.6 | 51.6 |

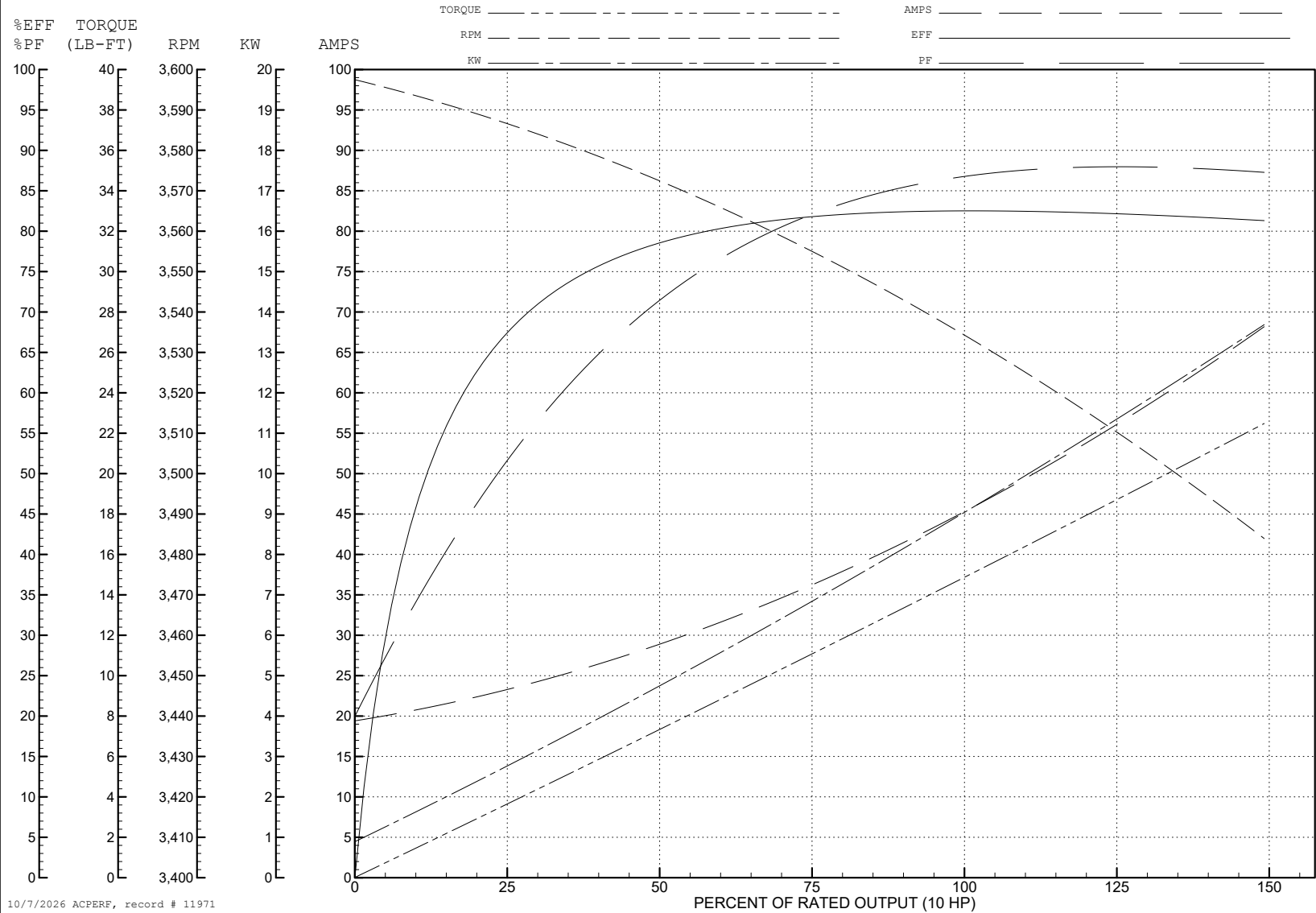
ABB Motors and Mechanical Inc.

WINDING # 37WG047

Typical performance - not guaranteed values.

10 HP 1 PH 60 HZ 3450 RPM 230 V 3740L

TORQUES (LB-FT) : PO=46.4 PU=27.6 LR=30.6 LRA=280





CD0017A01

