

# ABB BALDOR RELIANCE III

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## Customer information packet

JPL1508T

5HP, 1725RPM, 1PH, 60HZ, 213JP, 3727L, OPSB, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | OPSB                      |
| Frame                          | 213JP                     |
| 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             | 5.000 HP @ 60 HZ          |
| Phase                          | 1                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 230.0 V @ 60 HZ           |
| Agency Approvals               | UR<br>CSA                 |
| 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              | 27.000 A @ 230.0 V        |
| Design Code                    | L                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 77.0 %                    |
| 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    | 27.0 a                    |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |

**Part Detail**

|              |                     |
|--------------|---------------------|
| Revision     | Y                   |
| Type         | AC                  |
| Mech. spec.  | 37K239              |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 37WGT912            |
| Layout       | 37LYK239            |
| Eff. date    | 05-13-2024          |
| CD Diagram   | CD0017A01           |
| Poles        | 04                  |
| Leads        | 2#10 A PH,2#14 B PH |
| Proprietary  | False               |
| Created date | 06-23-2006          |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | <b>G</b>            |
| <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 @ 10 AWG, A PH    |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3727L               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 22.07 IN            |
| <b>Power Factor</b>                  | 78                  |
| <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>        | Standard            |
| <b>Rodent Screen</b>                 | Included            |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 1.375 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>       | No Slinger          |
| <b>Speed</b>                         | 1725 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.      | JPL1508T     |      |     |      |   |       |    |   |  |
| SPEC.        | 37K239T912   |      |     |      |   |       |    |   |  |
| HP           | 5            |      |     |      |   |       |    |   |  |
| VOLTS        | 230          |      |     |      |   |       |    |   |  |
| AMP          | 27           |      |     |      |   |       |    |   |  |
| RPM          | 1725         |      |     |      |   |       |    |   |  |
| FRAME        | 213JP        |      | HZ  | 60   |   |       | PH | 1 |  |
| SER.F.       | 1.15         | CODE | G   | DES  | L | CLASS | F  |   |  |
| NEMA-NOM-EFF | 77           | PF   | 78  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6309         |      | ODE | 6206 |   |       |    |   |  |
| ENCL         | OPSB         | SN   |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 61328

Typical performance - not guaranteed values

| Winding: 37WGT912-R002 |    |              | Type: 3727L                           |                         | Enclosure: OPSB  |                       |       |                             |
|------------------------|----|--------------|---------------------------------------|-------------------------|------------------|-----------------------|-------|-----------------------------|
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>Single Voltage Motor |                         |                  |                       |       |                             |
| Rated Output (HP)      |    | 5            | Full Load Torque                      |                         | 15.3 LB-FT       |                       |       |                             |
| Volts                  |    | 230          | Start Configuration                   |                         | direct on line   |                       |       |                             |
| Full Load Amps         |    | 27           | Breakdown Torque                      |                         | 43 LB-FT         |                       |       |                             |
| R.P.M.                 |    | 1725         | Pull-up Torque                        |                         | 30.8 LB-FT       |                       |       |                             |
| Hz                     | 60 | Phase        | 1                                     | Locked-rotor Torque     |                  | 46.9 LB-FT            |       |                             |
| NEMA Design Code       |    | L            | KVA Code                              | G                       | Starting Current |                       | 132 A |                             |
| Service Factor (S.F.)  |    | 1.15         |                                       | No-load Current         |                  | 14.3 A                |       |                             |
| NEMA Nom. Eff.         |    | 77           | Power Factor                          |                         | 78               | Line-line Res. @ 25°C |       | 0.352 Ω A Ph<br>1.48 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load |                  | 68°C                  |       |                             |
| S.F. Amps              |    |              |                                       | Temp. Rise @ S.F. Load  |                  | 88°C                  |       |                             |

**Load Characteristics 230 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 38   | 58   | 71   | 78   | 81   | 82   | 80   |
| Efficiency      | 71.1 | 79.4 | 78   | 77.1 | 74.1 | 67.1 | 75.3 |
| Speed           | 1781 | 1766 | 1749 | 1728 | 1699 | 1653 | 1711 |
| Line amperes    | 14.9 | 17.5 | 21.9 | 27.1 | 33.9 | 44.4 | 31.2 |

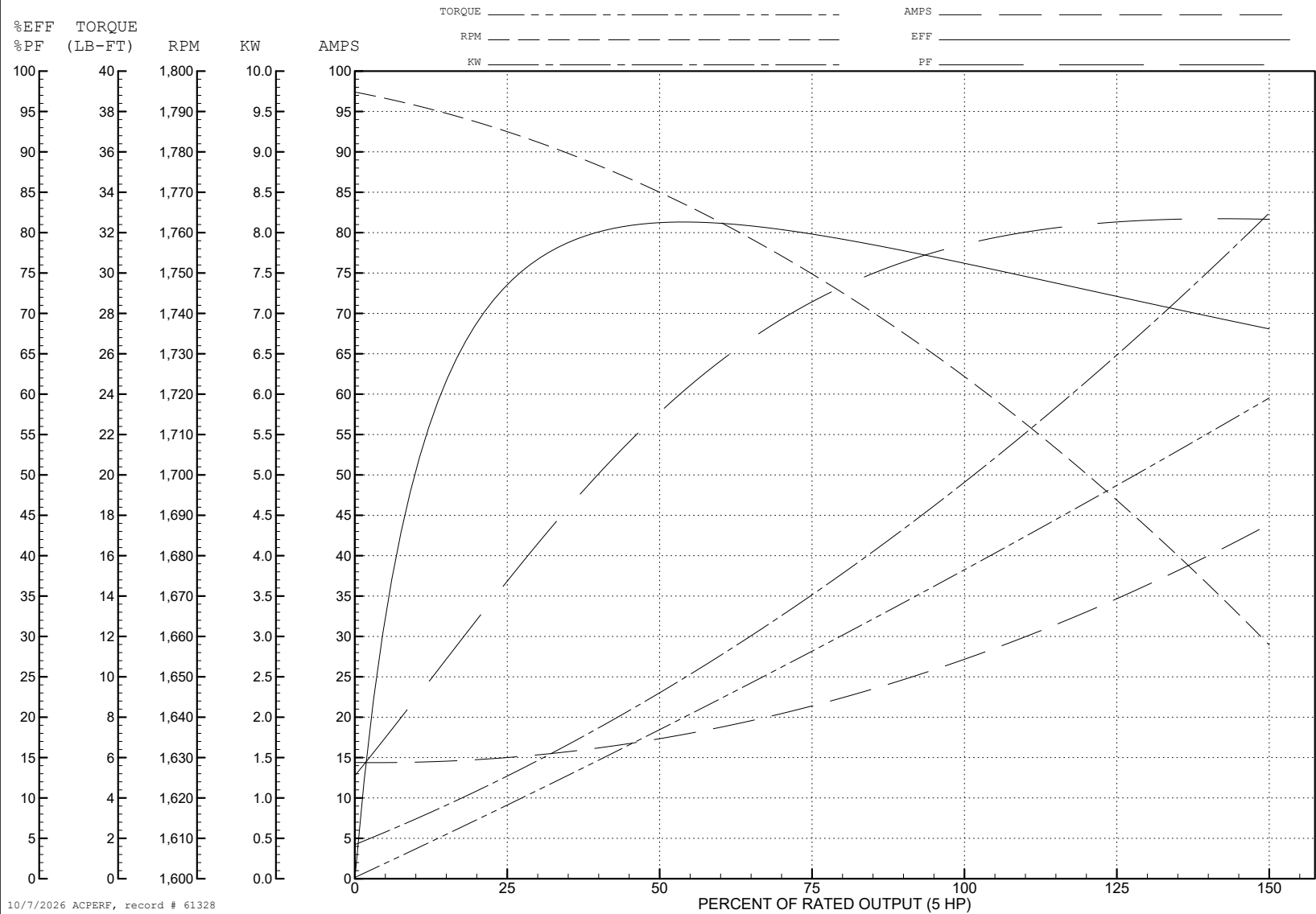
ABB Motors and Mechanical Inc.

WINDING # 37WGT912

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3727L

TORQUES (LB-FT): PO=43 PU=30.8 LR=46.9 LRA=132



|                                                   |             |                              |                  |
|---------------------------------------------------|-------------|------------------------------|------------------|
| REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19 |             |                              |                  |
| REV: C                                            | VERSION: 03 | REVISED: 11:48:48 10/11/2022 | TDR: 00000119775 |
| MODEL NO. 37LYK239                                |             |                              | REF: -           |
| BY: ENALEM0                                       |             |                              |                  |

STD HORZ NEMA 213T-5JP OPSB 37L-LC

CD0017A01

