

# ABB BALDOR RELIANCE III

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## Customer information packet

### FDEM3711T

10HP, 3490RPM, 3PH, 60HZ, 215T, 3728M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                     |
| <b>Frame</b>                          | 215T                                     |
| <b>Frame Material</b>                 | Steel                                    |
| <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>  | 3600 RPM @ 60 HZ                         |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | NEMA PREMIUM<br>CURUSEEV                 |
| <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>              | 12.000 A @ 460.0 V<br>24.100 A @ 230.0 V |
| <b>Design Code</b>                    | B                                        |
| <b>Drip Cover</b>                     | No Drip Cover                            |
| <b>Duty Rating</b>                    | CONT                                     |
| <b>Efficiency @ 100% Load</b>         | 90.2 %                                   |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                |
| <b>Feedback Device</b>                | NO FEEDBACK                              |
| <b>Front Shaft Indicator</b>          | None                                     |
| <b>Heater Indicator</b>               | No Heater                                |
| <b>High Voltage Full Load Amps</b>    | 12.0 a                                   |
| <b>Insulation Class</b>               | F                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37N377     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGZ712   |
| <b>Layout</b>       | 37LYN377   |
| <b>Eff. date</b>    | 11-24-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-10-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | G                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing     |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 14 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3728M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 2                     |
| <b>Overall Length</b>                | 17.89 IN              |
| <b>Power Factor</b>                  | 85                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing        |
| <b>Pulley Face Code</b>              | Standard              |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.375 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 3490 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**

| NP3126L      |              |      |     |      |   |    |   |    |   |  |  |
|--------------|--------------|------|-----|------|---|----|---|----|---|--|--|
| CAT.NO.      | FDEM3711T    |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 37N377Z712G1 |      |     |      |   |    |   |    |   |  |  |
| HP           | 10           |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 230/460      |      |     |      |   |    |   |    |   |  |  |
| AMP          | 24.1/12      |      |     |      |   |    |   |    |   |  |  |
| RPM          | 3490         |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 215T         |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15         | CODE | G   | DES  | B | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 90.2         | PF   | 85  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A         |      |     |      |   |    |   |    |   |  |  |
| DE           | 6307         |      | ODE | 6206 |   |    |   |    |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |    |   |    |   |  |  |
|              | IP44         |      |     |      |   |    |   |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 115764

Typical performance - not guaranteed values

| Winding: 37WGZ712-R001 |    |              | Type: 3728M  |                                          | Enclosure: TEFC       |                |          |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                |          |
| Rated Output (HP)      |    | 10           |              | Full Load Torque                         |                       | 15 LB-FT       |          |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line |          |
| Full Load Amps         |    | 24.1/12      |              | Breakdown Torque                         |                       | 58.7 LB-FT     |          |
| R.P.M.                 |    | 3490         |              | Pull-up Torque                           |                       | 24.8 LB-FT     |          |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 27.4 LB-FT     |          |
| NEMA Design Code       |    | B            | KVA Code     | G                                        | Starting Current      |                | 77.5 A   |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 4.12 A         |          |
| NEMA Nom. Eff.         |    | 90.2         | Power Factor | 85                                       | Line-line Res. @ 25°C |                | 1.0708 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 81°C           |          |
| S.F. Amps              |    | 27.6/13.8    |              | Temp. Rise @ S.F. Load                   |                       | 104°C          |          |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 34.2           |          |

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

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 52     | 75     | 83     | 87     | 88     | 89     | 88   |
| Efficiency      | 88.3   | 91.6   | 91.6   | 90.6   | 89     | 87.1   | 89.6 |
| Speed           | 3572.3 | 3544.9 | 3515.4 | 3482.5 | 3445.4 | 3404.5 | 3460 |
| Line amperes    | 4.96   | 6.75   | 9.13   | 11.8   | 14.8   | 18.1   | 13.6 |

ABB Motors and Mechanical Inc.

WINDING # 37WGZ712

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3728M

TORQUES (LB-FT) : PO=58.7 PU=24.8 LR=27.4 LRA=77.5





