

# ABB BALDOR RELIANCE III

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## Customer information packet

JMEWDM3713T

44M 2P TEFC HOR 215JM WD SUPER E

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                     |
| <b>Frame</b>                          | 215JM                                    |
| <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>             | 15.000 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                             |
| <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>              | 17.700 A @ 460.0 V<br>35.500 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>         | 91.0 %                                   |
| <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>    | 17.7 a                                   |
| <b>Insulation Class</b>               | F                                        |
| <b>Inverter Code</b>                  | Inverter Ready                           |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37H883     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGZ713   |
| <b>Layout</b>       | 37LYH883   |
| <b>Eff. date</b>    | 04-21-2026 |
| <b>CD Diagram</b>   | CD0180     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-13-2026 |

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>KVA Code</b>                      | <b>H</b>                     |
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b> |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>        |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 14 AWG</b>            |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>          |
| <b>Motor Standards</b>               | <b>NEMA</b>                  |
| <b>Motor Type</b>                    | <b>3744M</b>                 |
| <b>Mounting Arrangement</b>          | <b>F1</b>                    |
| <b>Number of Poles</b>               | <b>2</b>                     |
| <b>Overall Length</b>                | <b>16.63 IN</b>              |
| <b>Power Factor</b>                  | <b>86</b>                    |
| <b>Product Family</b>                | <b>Wash Down</b>             |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                  |
| <b>Pulley Face Code</b>              | <b>C-Face</b>                |
| <b>Pulley Shaft Indicator</b>        | <b>Tapped &amp; Key</b>      |
| <b>Rodent Screen</b>                 | <b>None</b>                  |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>        |
| <b>Service Factor</b>                | <b>1.15</b>                  |
| <b>Shaft Diameter</b>                | <b>0.875 IN</b>              |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>    |
| <b>Shaft Rotation</b>                | <b>Reversible</b>            |
| <b>Shaft Slinger Indicator</b>       | <b>Shaft Slinger</b>         |
| <b>Speed</b>                         | <b>3495 rpm</b>              |
| <b>Speed Code</b>                    | <b>Single Speed</b>          |
| <b>Starting Method</b>               | <b>Direct on line</b>        |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                  |
| <b>Thermal Device - Winding</b>      | <b>None</b>                  |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b>   |
| <b>Winding Thermal 1</b>             | <b>None</b>                  |
| <b>Winding Thermal 2</b>             | <b>None</b>                  |

Nameplate

| NP1669L      |                        |      |     |      |   |       |    |   |  |
|--------------|------------------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | JMEWDM3713T            |      |     |      |   |       |    |   |  |
| SPEC.        | 37H883Z713             |      |     |      |   |       |    |   |  |
| HP           | 15                     |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460                |      |     |      |   |       |    |   |  |
| AMP          | 35.5/17.7              |      |     |      |   |       |    |   |  |
| RPM          | 3495                   |      |     |      |   |       |    |   |  |
| FRAME        | 215JM                  |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15                   | CODE | J   | DES  | A | CLASS |    | F |  |
| NEMA-NOM-EFF | 91                     | PF   | 86  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT           |      |     |      |   |       |    |   |  |
| CC           | 010A                   |      |     |      |   |       |    |   |  |
| DE           | 6309                   |      | ODE | 6206 |   |       |    |   |  |
| ENCL         | TEFC                   | SN   |     |      |   |       |    |   |  |
| BLANK        | 10:1CT, 20:1VT, 1.00SF |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 116703

Typical performance - not guaranteed values

| Winding: 37WGZ713-R002 |    |           | Type: 3744M                              |                     | Enclosure: TEFC         |                       |       |           |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|-----------------------|-------|-----------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |       |           |
| Rated Output (HP)      |    | 15        | Full Load Torque                         |                     | 22.44 LB-FT             |                       |       |           |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |                       |       |           |
| Full Load Amps         |    | 35.5/17.7 | Breakdown Torque                         |                     | 119 LB-FT               |                       |       |           |
| R.P.M.                 |    | 3495      | Pull-up Torque                           |                     | 38 LB-FT                |                       |       |           |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 54.1 LB-FT            |       |           |
| NEMA Design Code       |    | A         | KVA Code                                 | J                   | Starting Current        |                       | 146 A |           |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 6.2 A                   |                       |       |           |
| NEMA Nom. Eff.         |    | 91        | Power Factor                             |                     | 86                      | Line-line Res. @ 25°C |       | 0.53818 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 87°C  |           |
| S.F. Amps              |    | 40.4/20.2 | Temp. Rise @ S.F. Load                   |                     | 114°C                   |                       |       |           |
|                        |    |           | Locked-rotor Power Factor                |                     | 32.1                    |                       |       |           |
|                        |    |           | Rotor inertia                            |                     | 0.401 lb-ft²            |                       |       |           |

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

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor    | 54     | 75   | 84     | 88     | 90     | 90     | 89   |
| Efficiency      | 87.7   | 91.6 | 92.1   | 91.6   | 90.6   | 89.3   | 91   |
| Speed           | 3575.5 | 3553 | 3529.7 | 3502.4 | 3472.3 | 3441.9 | 3484 |
| Line amperes    | 7.4    | 10.1 | 13.5   | 17.4   | 21.6   | 26.1   | 19.9 |

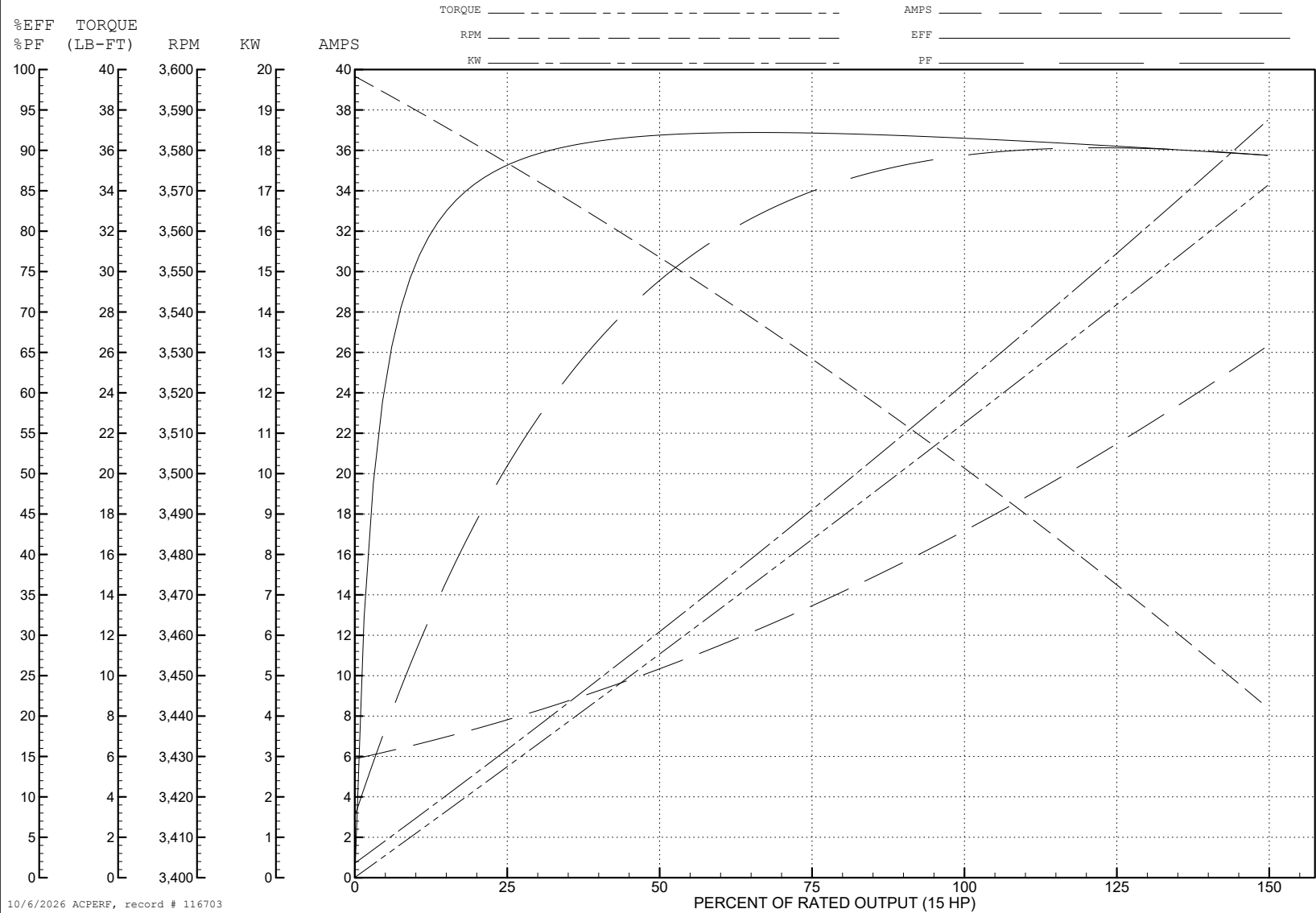
ABB Motors and Mechanical Inc.

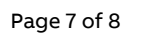
WINDING # 37WGZ713

Typical performance - not guaranteed values.

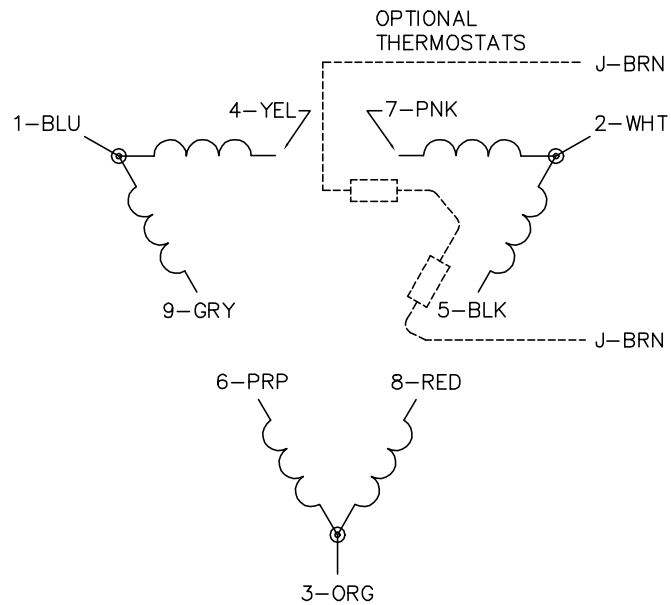
15 HP 3 PH 60 HZ 3495 RPM 460 V 3744M

TORQUES (LB-FT): PO=119 PU=38 LR=54.1 LRA=146

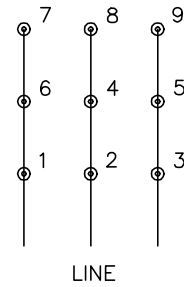




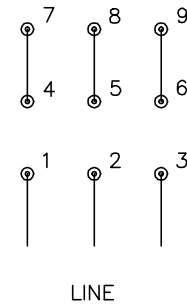
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



**NOTES:**

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

|                                   |                                |                   |
|-----------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 |                                |                   |
| REV. LTR: D                       | VERSION: 01                    | TDR: 000001099922 |
| FILE: \AAA\00005\148              | REVISED: 10: 25: 29 02/19/2019 | BY: ENBRIRO       |
| MTL: —                            |                                |                   |

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1