

# ABB BALDOR RELIANCE III

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## Customer information packet

### VEWDM3714T

10HP, 1768RPM, 3PH, 60HZ, 215TC, 3750M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 215TC                                                          |
| <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>  | 1800 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CURUSEEV<br>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>                 | No Mounting                                                    |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                        |
| <b>Blower</b>                         | None                                                           |
| <b>Current @ Voltage</b>              | 12.400 A @ 460.0 V<br>24.800 A @ 230.0 V<br>27.000 A @ 208.0 V |
| <b>Design Code</b>                    | A                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 91.7 %                                                         |
| <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>    | 12.4 a                                                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37H875     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGZ711   |
| <b>Layout</b>       | 37LYH875   |
| <b>Eff. date</b>    | 03-12-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-05-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | K                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | 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>                    | 3750M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 20.51 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>              | C-Face                |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <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>                         | 1768 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**

| NP1669L      |               |      |     |      |   |       |    |   |  |
|--------------|---------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | VEWDM3714T    |      |     |      |   |       |    |   |  |
| SPEC.        | 37H875Z711    |      |     |      |   |       |    |   |  |
| HP           | 10            |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460       |      |     |      |   |       |    |   |  |
| AMP          | 24.8/12.4     |      |     |      |   |       |    |   |  |
| RPM          | 1768          |      |     |      |   |       |    |   |  |
| FRAME        | 215TC         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15          | CODE | K   | DES  | A | CLASS | F  |   |  |
| NEMA-NOM-EFF | 91.7          | PF   | 85  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |       |    |   |  |
| CC           | 010A          |      |     |      |   |       |    |   |  |
| DE           | 6307          |      | ODE | 6206 |   |       |    |   |  |
| ENCL         | TEFC          | SN   |     |      |   |       |    |   |  |
| BLANK        | SFA 28.2/14.1 |      |     |      |   |       |    |   |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA443067      | SA 37H875Z711                            | 1.000 ea |
| RA435563      | RA 37H875Z711                            | 1.000 ea |
| HW3200A01     | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| 37CB3005A04W  | CASTING W/.75 NPT@6(MACH WHITE)          | 1.000 ea |
| 37GS1025      | 37 MOLDED GASKET W/LIP, LEAD SEAL        | 1.000 ea |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HA5027A01     | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 ea |
| 37EP3101A94MW | FRONT TEFC L&M 206 BRG W/O GRSR (WHITE)  | 1.000 ea |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 ea |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| 37EP3300A23MW | WHITE EPOXY EP MACH COMPL                | 1.000 ea |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 ea |
| HW4600B51     | SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB | 1.000 ea |
| 10XN2520S30   | 1/4-20 X 1 7/8 HEX HEAD SS               | 4.000 ea |
| XY3118S12     | 5/16-18 HEX NUT, STAINLESS STEEL         | 4.000 ea |
| 07FH4011      | WASHDOWN IEC FH W/PRIMED                 | 1.000 ea |
| 11XW1032S06   | SCREW, HXWSHR HD SLDTYF 410 SS           | 3.000 ea |
| HW4600B74     | V-RING SLINGER 1.125 X 1.445 X .24 VITON | 1.000 ea |
| HW4600B31SP   | V-RING SLINGER 1.438 X 1.758 X .24 VITON | 1.000 ea |
| 37CB4512      | CONDUIT BOX LID FOR WASHDOWN 37 FRAME    | 1.000 ea |
| 37GS1008A02   | 37 GS FOR CB LID - WHITE NEOPRENE        | 1.000 ea |
| 59XW0832S07   | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW2502F21     | #303 SS,SQ KEY 5/16 X 2.375              | 1.000 ea |
| HA7000A02     | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| MJ5001A27     | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1164        | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 51XB1214A20   | 12-14X1.25 HXWSSLD SERTYB                | 1.000 ea |
| 37FN3002C01   | EXFN, PLASTIC, 6.00 OD, 1.155 ID         | 1.000 ea |

|           |                                          |          |
|-----------|------------------------------------------|----------|
| MG1025Z02 | ACTIVATOR WILKOFAS 060.02HF 55 GALLON    | 0.010 ga |
| MG1025W01 | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.028 ga |
| HA3104S18 | THRU BOLT STAINLESS ST. .31-18 UNC-2A X  | 4.000 ea |
| LC0005    | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP1669L   | SS WD SUPER-E UL PREM REV MTG            | 1.000 ea |
| 37PA1074  | PALLET PACK GRP, PRINT BOX PK1026A06     | 1.000 ea |
| PK3082    | STYROFOAM CRADLE                         | 1.000 ea |
| MN416A01  | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1624    | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 115760

Typical performance - not guaranteed values

| Winding: 37WGZ711-R001 |    |           | Type: 3750M                              |                     | Enclosure: TEFC         |            |          |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------|----------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |          |
| Rated Output (HP)      |    | 10        | Full Load Torque                         |                     | 29.79 LB-FT             |            |          |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |            |          |
| Full Load Amps         |    | 24.8/12.4 | Breakdown Torque                         |                     | 93.4 LB-FT              |            |          |
| R.P.M.                 |    | 1768      | Pull-up Torque                           |                     | 44.7 LB-FT              |            |          |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 55.5 LB-FT |          |
| NEMA Design Code       |    | A         | KVA Code                                 | K                   | Starting Current        |            | 90.5 A   |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 5.11 A                  |            |          |
| NEMA Nom. Eff.         |    | 91.7      | Power Factor                             | 85                  | Line-line Res. @ 25°C   |            | 1.1801 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 77°C     |
| S.F. Amps              |    | 28.2/14.1 | Temp. Rise @ S.F. Load                   |                     | 108°C                   |            |          |
|                        |    |           | Locked-rotor Power Factor                |                     | 37.2                    |            |          |

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

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor    | 45     | 68   | 78     | 82     | 85     | 85     | 84   |
| Efficiency      | 89.9   | 92.6 | 92.6   | 91.8   | 90.5   | 88.9   | 91   |
| Speed           | 1792.4 | 1785 | 1776.3 | 1767.2 | 1756.7 | 1745.2 | 1756 |
| Line amperes    | 5.83   | 7.54 | 9.79   | 12.4   | 15.3   | 18.6   | 14.2 |

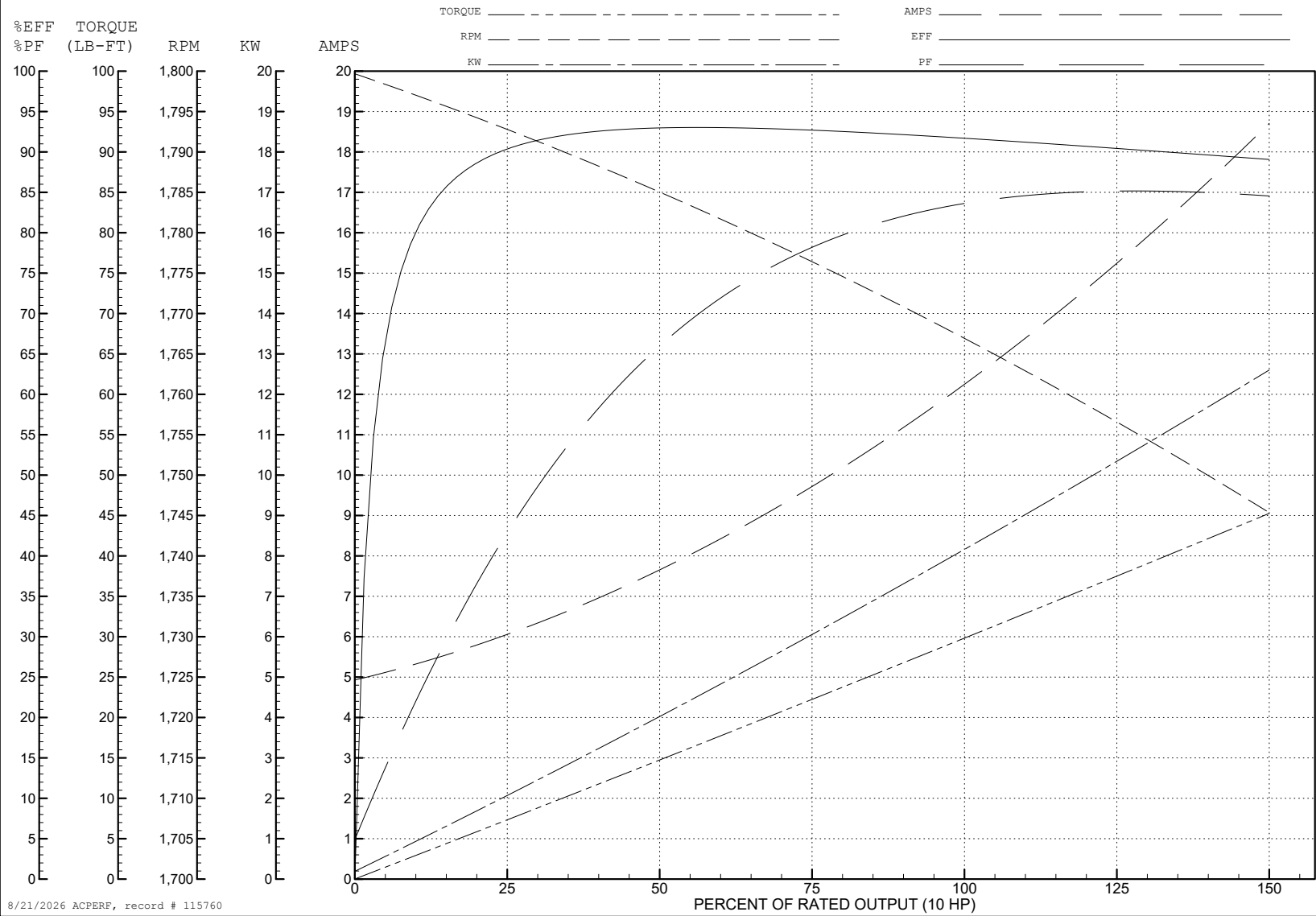
ABB Motors and Mechanical Inc.

WINDING # 37WGZ711

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1768 RPM 460 V 3750M

TORQUES (LB-FT): PO=93.4 PU=44.7 LR=55.5 LRA=90.5



8/21/2026 ACPERF, record # 115760



