

# ABB BALDOR RELIANCE III

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## Customer information packet

VFSWDM3714T-5E

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Enclosure</b>                      | TEFC                      |
| <b>Frame</b>                          | 215TC                     |
| <b>Frame Material</b>                 | Stainless 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>            | 575.0 V @ 60 HZ           |
| <b>Agency Approvals</b>               | UR<br>CSA                 |
| <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>              | 10.100 A @ 575.0 V        |
| <b>Design Code</b>                    | B                         |
| <b>Drip Cover</b>                     | No Drip Cover             |
| <b>Duty Rating</b>                    | CONT                      |
| <b>Efficiency @ 100% Load</b>         | 92.4 %                    |
| <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>    | 10.1 a                    |
| <b>Insulation Class</b>               | H                         |
| <b>Inverter Code</b>                  | Inverter Duty             |
| <b>KVA Code</b>                       | K                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | H          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37Q227     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGS360   |
| <b>Layout</b>       | 37LYQ227   |
| <b>Eff. date</b>    | 09-22-2023 |
| <b>CD Diagram</b>   | CD0006     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 3#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-22-2019 |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b>      |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>             |
| <b>Max Speed</b>                     | <b>4500 rpm</b>                   |
| <b>Motor Lead Quantity/Wire Size</b> | <b>3 @ 14 AWG</b>                 |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>               |
| <b>Motor Standards</b>               | <b>NEMA</b>                       |
| <b>Motor Type</b>                    | <b>3756M</b>                      |
| <b>Mounting Arrangement</b>          | <b>F1</b>                         |
| <b>Number of Poles</b>               | <b>4</b>                          |
| <b>Overall Length</b>                | <b>22.12 IN</b>                   |
| <b>Power Factor</b>                  | <b>81</b>                         |
| <b>Product Family</b>                | <b>WD All SD Non-Encapsulated</b> |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>             |
| <b>Pulley Face Code</b>              | <b>C-Face</b>                     |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>                   |
| <b>Rodent Screen</b>                 | <b>None</b>                       |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>             |
| <b>Service Factor</b>                | <b>1.00</b>                       |
| <b>Shaft Diameter</b>                | <b>1.375 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>No Slinger</b>                 |
| <b>Speed</b>                         | <b>1770 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**

| NP4427AAA02      |                |         |    |      |    |     |         |               |       |       |   |      |  |  |  |  |
|------------------|----------------|---------|----|------|----|-----|---------|---------------|-------|-------|---|------|--|--|--|--|
| CAT #            | VFSWDM3714T-5E |         |    |      |    |     | WGT     |               | LBS   |       |   |      |  |  |  |  |
| SPEC             | 37Q227S360G2   |         |    |      |    |     | ENCL    | TEFC          |       |       |   |      |  |  |  |  |
| SER #            |                |         |    |      |    |     | CC      | 010A          | IP    | 69    |   |      |  |  |  |  |
| HP               | 10             | MAG CUR |    |      |    | 4.5 |         |               |       |       |   |      |  |  |  |  |
| VOLTS            | 575            |         |    |      |    |     |         | NEMA NOM. EFF |       |       |   | 92.4 |  |  |  |  |
| AMPS             | 10.1           |         |    |      |    |     |         | PF            | 81    |       |   |      |  |  |  |  |
| RATING           | 40C AMB-CONT   |         |    |      |    |     |         |               |       |       |   |      |  |  |  |  |
| RPM              | 1770           |         |    |      |    |     | MAX RPM |               | 4500  |       |   |      |  |  |  |  |
| FRAME            | 215TC          | HZ      | 60 |      |    |     | CODE    | K             | CLASS | H     |   |      |  |  |  |  |
| SER.F.           | 1.00           | SF AMP  |    |      |    |     |         | PH            | 3     | DES   | B |      |  |  |  |  |
| DE               | 6307           | ODE     |    | 6307 |    |     |         |               |       |       |   |      |  |  |  |  |
| LUBRICATION      | POLYREX EM     |         |    |      |    |     |         |               |       |       |   |      |  |  |  |  |
| ID LOGO          | INVERTER TYPE  |         |    | VPWM |    | CHP | 60      | TO            | 90    | 1.5:1 |   |      |  |  |  |  |
| ID LOGO          | WK2            | 1.38    | CT | 15   | TO | 60  | 4:1     |               |       |       |   |      |  |  |  |  |
| ID LOGO          | SL HZ          | 1       | VT | 6    | TO | 60  | 10:1    |               |       |       |   |      |  |  |  |  |
| 1.15 SF SINEWAVE |                |         |    |      |    |     |         |               |       |       |   |      |  |  |  |  |
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**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA365553     | SA 37Q227S360G2                          | 1.000 ea |
| RA354946     | RA 37Q227S360G2                          | 1.000 ea |
| 35CB1017B01  | 37 MID SECT - 3 PC. CONDUIT BOX 1.00 NPT | 1.000 ea |
| RM1070A81    | O-RING, -043 VITON/FKM .070CS X 3.489ID  | 1.000 ea |
| HA3424S64    | STUD - M6X1.0 THDS X 4.00"               | 1.000 ea |
| 11XW1032G08  | 10-32 X .50, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01    | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 37EP1920A03  | FREP, TEFC MACH - 307 BRG WD11/12 (STAIN | 1.000 ea |
| RM1070A48    | O-RING, .070 C.S. X 8.656 ID, VITON      | 1.000 ea |
| HW4600F35    | 35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V | 1.000 ea |
| HW4600F34    | 35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED | 1.000 ea |
| HW4500S33    | 1/8 NPT STAINLESS #304 SS PLUG           | 4.000 ea |
| HW4500S33    | 1/8 NPT STAINLESS #304 SS PLUG           | 4.000 ea |
| HW5100A08    | W3118-035 WVY WSHR (WB)                  | 1.000 ea |
| 37EP1925A01  | PUEP, MACH - 307 BRG WD11/12 (STAINLESS) | 1.000 ea |
| RM1070A48    | O-RING, .070 C.S. X 8.656 ID, VITON      | 1.000 ea |
| HW4600F35    | 35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V | 1.000 ea |
| HW4600F34    | 35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED | 1.000 ea |
| RM1070A47    | O-RING, -011 VITON/FKM .070CS X .301ID   | 4.000 ea |
| 11XB1214S16  | 12-14X1.00 HXWSSLD TYP B STAINLESS       | 1.000 ea |
| 37FH4000A45  | STAINLESS FAN COVER, NO GREASER SLOT (FO | 1.000 ea |
| 10XN1032FS06 | HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF | 3.000 ea |
| 35CB1513A01  | 35-36-37 MACH. LID - 3 PC. CONDUIT BOX   | 1.000 ea |
| RM1070A81    | O-RING, -043 VITON/FKM .070CS X 3.489ID  | 1.000 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  | 0.005 qt |
| MJ5004A93    | FOOD GRADE (H1 RATED) ANTISEIZE THRD COM | 0.005 ea |
| HA1025A21    | WSHR,FELT .125" THK                      | 1.000 ea |
| HA5027A09    | DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL    | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |

|               |                                         |          |
|---------------|-----------------------------------------|----------|
| 37FN3002A01SP | EXFN, PLASTIC, 9.00 OD, 1.155 ID        | 1.000 ea |
| WD5603A02     | KIT, CLOSED-END LEAD SPLICE (18-14GA)   | 1.000 ea |
| HA3104FS31    | THRUBOLT, 5/16-18 X 15.875 SS FOOD SAFE | 4.000 ea |
| 37PA1074      | PALLET PACK GRP, PRINT BOX PK1026A06    | 1.000 ea |
| PK3082        | STYROFOAM CRADLE                        | 2.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| FE-0000016    | ZTRG FE ASSEMBLY                        | 1.000 ea |
| PE-0000010    | ZRTG PE ASSEMBLY                        | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 24424

Typical performance - not guaranteed values

| Winding: 37WGS360-R001 |    |              | Type: 3756M                           |                           | Enclosure: TEFC |             |
|------------------------|----|--------------|---------------------------------------|---------------------------|-----------------|-------------|
| Nameplate Data         |    |              | 575 V, 60 Hz:<br>Single Voltage Motor |                           |                 |             |
| Rated Output (HP)      |    | 10           | Full Load Torque                      |                           | 29.9 LB-FT      |             |
| Volts                  |    | 575          | Start Configuration                   |                           | direct on line  |             |
| Full Load Amps         |    | 10.1         | Breakdown Torque                      |                           | 104 LB-FT       |             |
| R.P.M.                 |    | 1770         | Pull-up Torque                        |                           | 54.9 LB-FT      |             |
| Hz                     | 60 | Phase        | 3                                     | Locked-rotor Torque       |                 | 75.9 LB-FT  |
| NEMA Design Code       |    | B            | KVA Code                              |                           | K               |             |
| Service Factor (S.F.)  |    | 1            | Starting Current                      |                           | 86.1 A          |             |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor                          |                           | 81              |             |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load   |                 | 77°C        |
|                        |    |              |                                       | Locked-rotor Power Factor |                 | 32          |
|                        |    |              |                                       | Rotor inertia             |                 | 1.38 LB-FT2 |

**Load Characteristics 575 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 42   | 64   | 75   | 81   | 83   | 84   |
| Efficiency      | 87.8 | 92.2 | 92.9 | 92.8 | 92.1 | 91.6 |
| Speed           | 1793 | 1786 | 1778 | 1770 | 1763 | 1753 |
| Line amperes    | 5.07 | 6.34 | 8.08 | 10.1 | 12.3 | 14.7 |

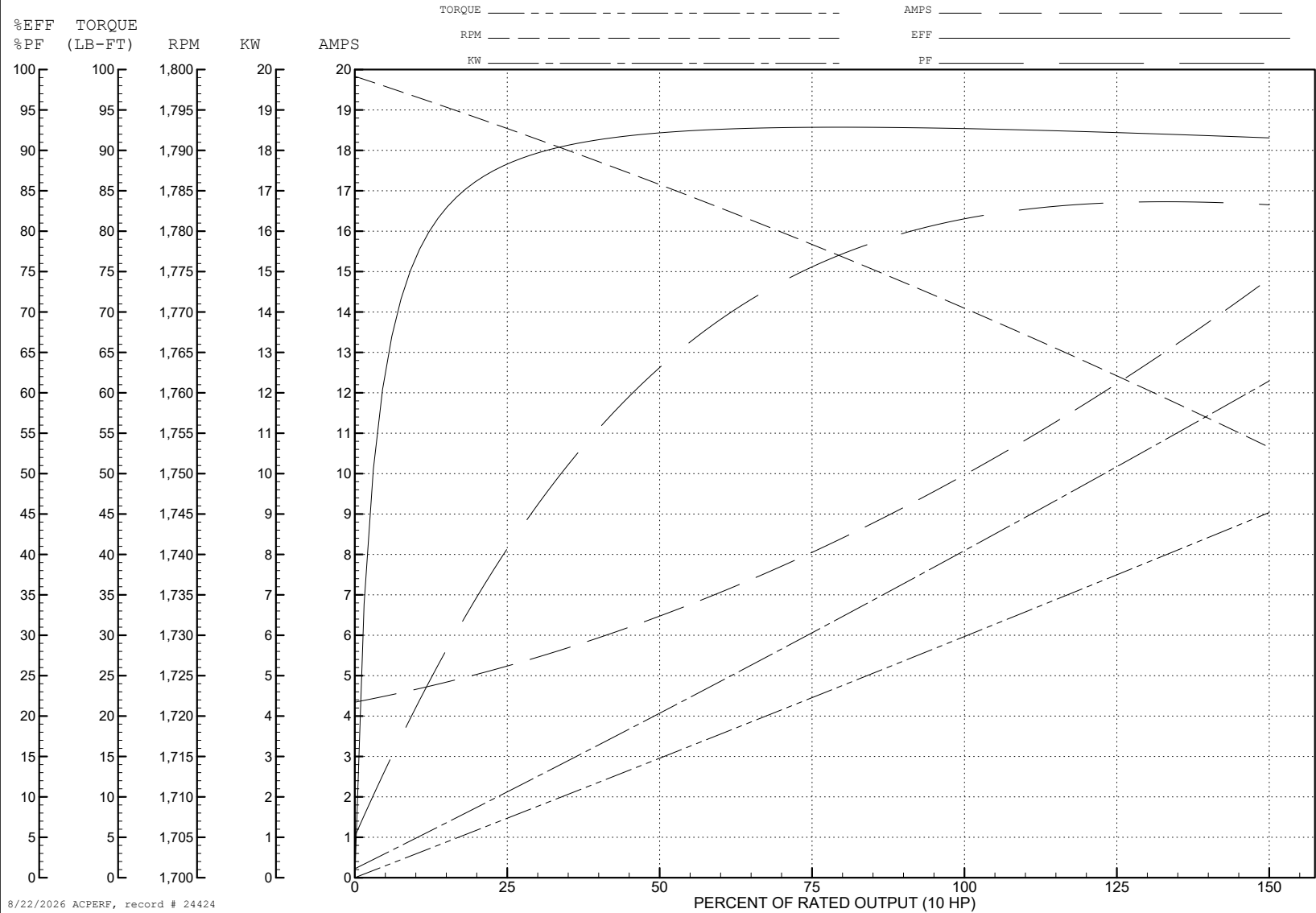
ABB Motors and Mechanical Inc.

WINDING # 37WGS360

Typical performance - not guaranteed values.

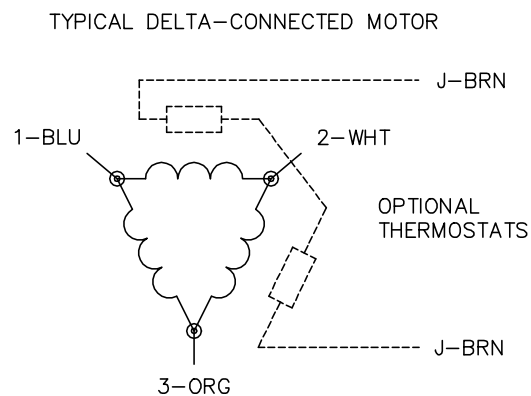
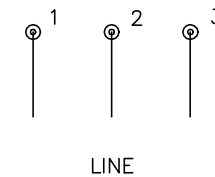
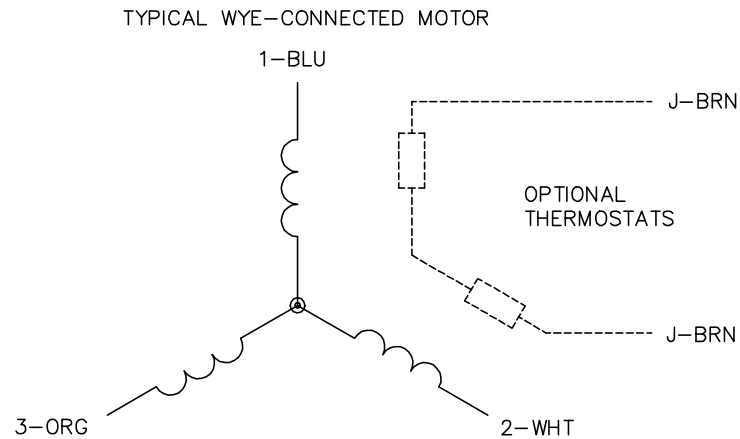
10 HP 3 PH 60 HZ 1770 RPM 575 V 3756M

TORQUES (LB-FT): PO=104 PU=54.9 LR=75.9 LRA=86.1



8/22/2026 ACPERF, record # 24424

CD0006


**NOTES:**

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —


**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1