

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEWDM3615T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3642M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Enclosure</b>                      | TEFC                      |
| <b>Frame</b>                          | 184TC                     |
| <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>             | 5.000 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<br>CSA EEV      |
| <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>              | 5.300 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>         | 89.5 %                    |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated |
| <b>Feedback Device</b>                | NO FEEDBACK               |
| <b>Front Face Code</b>                | Standard                  |
| <b>Front Shaft Indicator</b>          | None                      |
| <b>Heater Indicator</b>               | No Heater                 |
| <b>High Voltage Full Load Amps</b>    | 5.3 a                     |
| <b>Insulation Class</b>               | F                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | Q          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36K190     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGS551   |
| <b>Layout</b>       | 36LYK190   |
| <b>Eff. date</b>    | 10-17-2025 |
| <b>CD Diagram</b>   | CD0006     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 3#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 08-03-2010 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Inverter Code</b>                 | Inverter Ready      |
| <b>KVA Code</b>                      | J                   |
| <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> | 3 @ 16 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3642M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 18.04 IN            |
| <b>Power Factor</b>                  | 78                  |
| <b>Product Family</b>                | Wash Down           |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <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>                | 1.125 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>                         | 1750 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.      | CEWDM3615T-5 |      |     |      |   |       |    |   |  |
| SPEC.        | 36K190S551G1 |      |     |      |   |       |    |   |  |
| HP           | 5            |      |     |      |   |       |    |   |  |
| VOLTS        | 575          |      |     |      |   |       |    |   |  |
| AMP          | 5.3          |      |     |      |   |       |    |   |  |
| RPM          | 1750         |      |     |      |   |       |    |   |  |
| FRAME        | 184TC        |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15         | CODE | J   | DES  | B | CLASS |    | F |  |
| NEMA-NOM-EFF | 89.5         | PF   | 78  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           | 010A         |      |     |      |   |       |    |   |  |
| DE           | 6206         |      | ODE | 6205 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |
| BLANK        | SFA 6        |      |     |      |   |       |    |   |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA200848      | SA 36K190S551G1                          | 1.000 ea |
| RA188159      | RA 36K190S551G1                          | 1.000 ea |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID          | 1.000 ea |
| 36CB3005A03W  | 36 CB .75 NPT @ 6 W/WHITE EPOXY          | 1.000 ea |
| 35GS1022A03   | GASKET BOX .125 THK WHITE NEOPRENE       | 1.000 ea |
| 51XB1016A08   | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| HA5027A01     | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 36EP3104A03MW | FREP MACH (RAISED FH PADS) WHITE EPOXY   | 1.000 ea |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 ea |
| HW5100A05     | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36PE3301A27MW | PUEP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 ea |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 ea |
| HW4600B50     | SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB | 1.000 ea |
| 10XN2520S26   | 1/4-20X 1 5/8 HEX HD SS                  | 4.000 ea |
| 36FH4010A08   | IEC FH NO GREASER - W/PRIMER             | 1.000 ea |
| 11XW1032S06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 3.000 ea |
| 36CB4518      | 36 LIPPED CB LID PRIMED                  | 1.000 ea |
| 37GS3010SP    | 1/16"WHITE LID GASKET                    | 1.000 ea |
| 59XW0832S07   | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW4600B32SP   | V-RING SLINGER 1.000 X 1.540 X .24 VITON | 1.000 ea |
| HW4600B36SP   | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| HW2502E16     | #303 SS,SQ KEY 1/4 X 1.750               | 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 |
| HW3200A01     | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| MG1025Z02     | ACTIVATOR WILKOFAS 060.02HF 55 GALLON    | 0.010 ga |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| MG1025W01     | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.022 ga |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID          | 1.000 ea |
| HA3101S28     | THRUBOLT- 1/4-20 X 12.50 SS              | 4.000 ea |
| LC0006        | CONNECTION LABEL                         | 1.000 ea |
| NP1669L       | SS WD SUPER-E UL PREM REV MTG            | 1.000 ea |
| G0PA1000      | PKG GRP, PRINT PK1026A06                 | 1.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| MJ5001A02     | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.028 ea |
| FE-0000001    | ZRTG FE ASSEMBLY                         | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 32022

Typical performance - not guaranteed values

| Winding: 36WGS551-R001 |    |       | Type: 3642M                           |                     | Enclosure: TEFC         |          |        |
|------------------------|----|-------|---------------------------------------|---------------------|-------------------------|----------|--------|
| Nameplate Data         |    |       | 575 V, 60 Hz:<br>Single Voltage Motor |                     |                         |          |        |
| Rated Output (HP)      |    | 5     | Full Load Torque                      |                     | 14.9 LB-FT              |          |        |
| Volts                  |    | 575   | Start Configuration                   |                     | direct on line          |          |        |
| Full Load Amps         |    | 5.3   | Breakdown Torque                      |                     | 52.2 LB-FT              |          |        |
| R.P.M.                 |    | 1750  | Pull-up Torque                        |                     | 31.6 LB-FT              |          |        |
| Hz                     | 60 | Phase | 3                                     | Locked-rotor Torque |                         | 35 LB-FT |        |
| NEMA Design Code       |    | B     | KVA Code                              | J                   | Starting Current        |          | 39.3 A |
| Service Factor (S.F.)  |    | 1.15  | No-load Current                       |                     | 2.6 A                   |          |        |
| NEMA Nom. Eff.         |    | 89.5  | Power Factor                          | 78                  | Line-line Res. @ 25°C   |          | 3.57 Ω |
| Rating - Duty          |    | 40C   | AMB-CONT                              |                     | Temp. Rise @ Rated Load |          | 77°C   |
| S.F. Amps              |    |       | Temp. Rise @ S.F. Load                |                     | 94°C                    |          |        |
|                        |    |       | Locked-rotor Power Factor             |                     | 40                      |          |        |
|                        |    |       | Rotor inertia                         |                     | 0.391 LB-FT2            |          |        |

**Load Characteristics 575 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 38   | 60   | 72   | 78   | 83   | 83   | 81   |
| Efficiency      | 84.8 | 89.6 | 90.5 | 89.5 | 88.5 | 86.9 | 88.9 |
| Speed           | 1789 | 1776 | 1762 | 1750 | 1733 | 1714 | 1740 |
| Line amperes    | 2.85 | 3.45 | 4.35 | 5.33 | 6.36 | 7.72 | 5.95 |

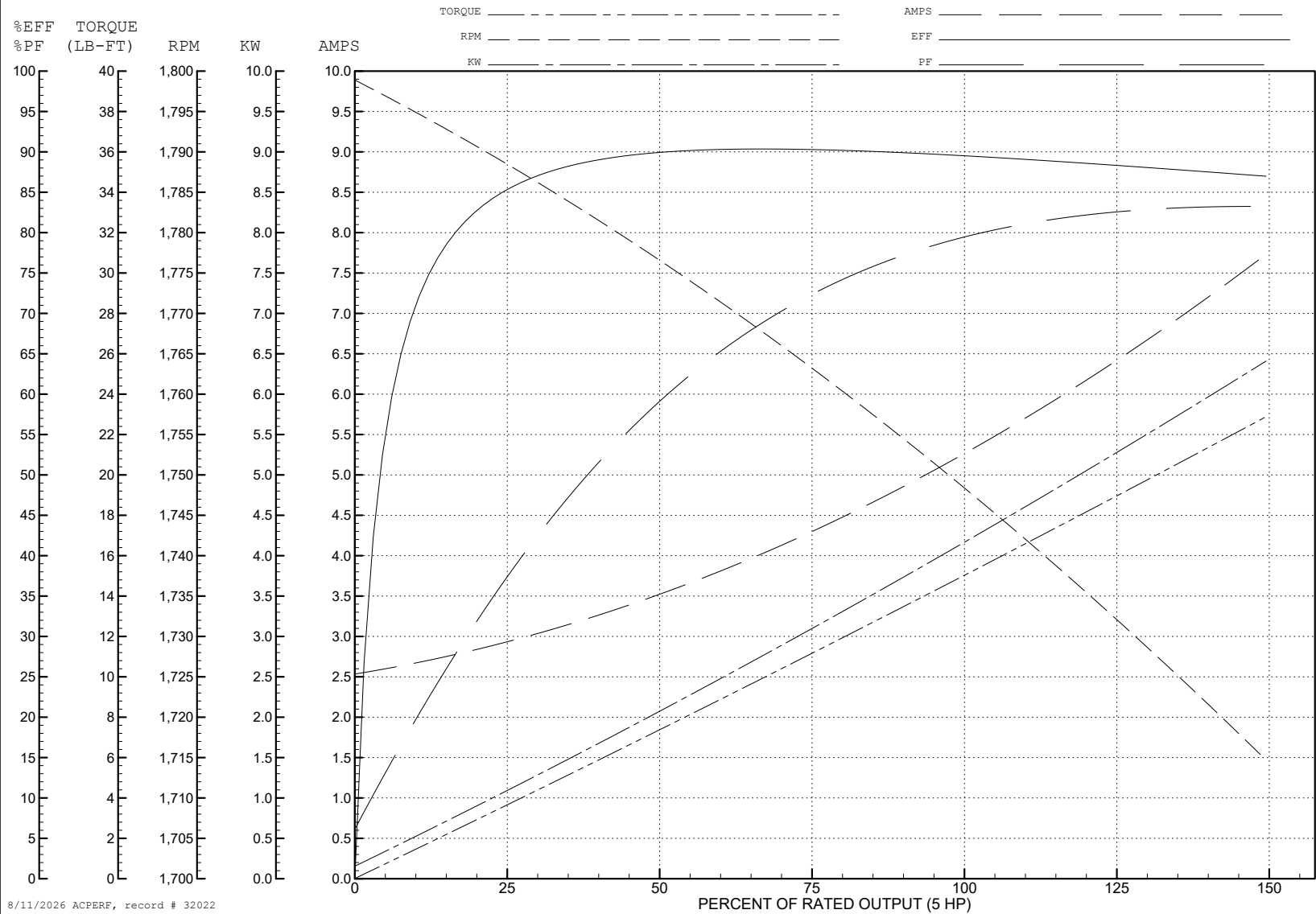
ABB Motors and Mechanical Inc.

WINDING # 36WGS551

Typical performance - not guaranteed values.

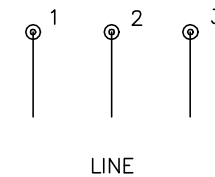
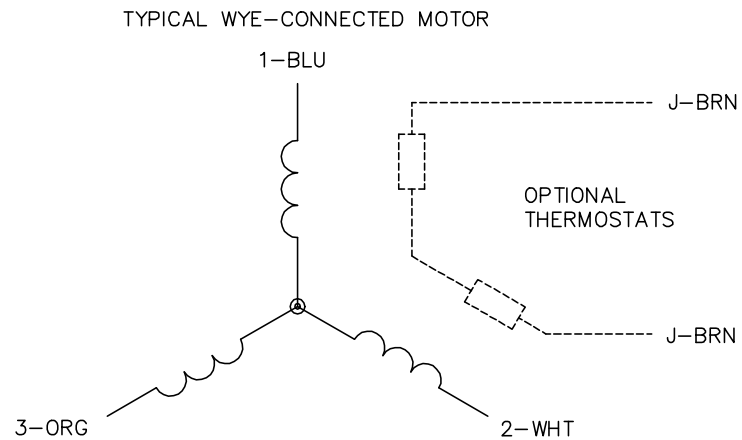
5 HP 3 PH 60 HZ 1750 RPM 575 V 3642M

TORQUES (LB-FT) : PO=52.2 PU=31.6 LR=35 LRA=39.3





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