

# ABB BALDOR RELIANCE III

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## Customer information packet

### CSWDM3538-5

0.5HP, 1770RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TENV                      |
| Frame                          | 56C                       |
| Frame Material                 | Stainless Steel           |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Three Phase               |
| Output @ Frequency             | .500 HP @ 60 HZ           |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | CSA<br>UR                 |
| Ambient Temperature            | 40 °C                     |
| Auxiliary Box                  | NO AUXILLARY BOX          |
| Auxiliary Box Lead Termination | None                      |
| Base Indicator                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | .770 A @ 575.0 V          |
| Design Code                    | B                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 80.0 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 0.8 a                     |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |
| KVA Code                       | M                         |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35S630     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG200   |
| Layout       | 35LYS630   |
| Eff. date    | 09-11-2023 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                                      |                      |
|--------------------------------------|----------------------|
| <b>Lifting Lugs</b>                  | No Lifting Lugs      |
| <b>Locked Bearing Indicator</b>      | Locked Bearing       |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 18 AWG           |
| <b>Motor Lead Termination</b>        | Flying Leads         |
| <b>Motor Standards</b>               | NEMA                 |
| <b>Motor Type</b>                    | 3512M                |
| <b>Mounting Arrangement</b>          | F1                   |
| <b>Number of Poles</b>               | 4                    |
| <b>Overall Length</b>                | 11.06 IN             |
| <b>Power Factor</b>                  | 62                   |
| <b>Product Family</b>                | Wash Down Paint Free |
| <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>                | 1.25                 |
| <b>Shaft Diameter</b>                | 0.625 IN             |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding   |
| <b>Shaft Rotation</b>                | Reversible           |
| <b>Shaft Slinger Indicator</b>       | No Slinger           |
| <b>Speed</b>                         | 1770 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**

| NP1496L      |              |  |      |      |     |   |  |       |   |  |  |
|--------------|--------------|--|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | CSWDM3538-5  |  |      |      |     |   |  |       |   |  |  |
| SPEC.        | 35S630G200G1 |  |      |      |     |   |  |       |   |  |  |
| HP           | 0.5          |  |      |      |     |   |  |       |   |  |  |
| VOLTS        | 575          |  |      |      |     |   |  |       |   |  |  |
| AMP          | 0.77         |  |      |      |     |   |  |       |   |  |  |
| RPM          | 1770         |  |      |      |     |   |  |       |   |  |  |
| FRAME        | 56C          |  | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.25         |  | CODE | M    | DES | B |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 80           |  | PF   | 62   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |  |       |   |  |  |
| CC           |              |  |      |      |     |   |  |       |   |  |  |
| DE           | 6205         |  | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | TENV         |  | SN   |      |     |   |  |       |   |  |  |
|              | SFA .8       |  |      |      |     |   |  |       |   |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA409157     | SA 35S630G200G1                          | 1.000 ea |
| RA400703     | RA 35S630G200G1                          | 1.000 ea |
| NS2512A01    | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB5001A03  | CONDUIT BOX KIT, FOR SUPER II WASHDOWN   | 1.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122D00U | MASTER ODE,203 BRG,.125NPT DRNS(BALL BUR | 1.000 ea |
| HW4500S33    | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW5100A03    | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3307E00U | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 1.000 ea |
| HW4500S33    | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW4606A02    | JM CLIPPER/SEAL (LWE-0938-1624-AL23)     | 1.000 ea |
| 12XN1032S20  | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| HA1049A01    | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 2.000 ea |
| HA1049A01    | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 4.000 ea |
| HW2502D13    | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A04    | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| MJ5001A02    | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 ea |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1164       | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| HA5027A02    | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3100S12    | THRUBOLT 7.625 LENGTH 1.250 TH LENGTH SS | 4.000 ea |
| LC0006       | CONNECTION LABEL                         | 1.000 ea |
| NP1496L      | SS WD UL CC                              | 1.000 ea |
| 35PA1066     | PKG GRP, PRINT PK1008A07                 | 1.000 ea |
| MN416A01     | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| PE-0000001   | ZRTG PE ASSEMBLY                         | 1.000 ea |
| FE-0000001   | ZRTG FE ASSEMBLY                         | 1.000 ea |

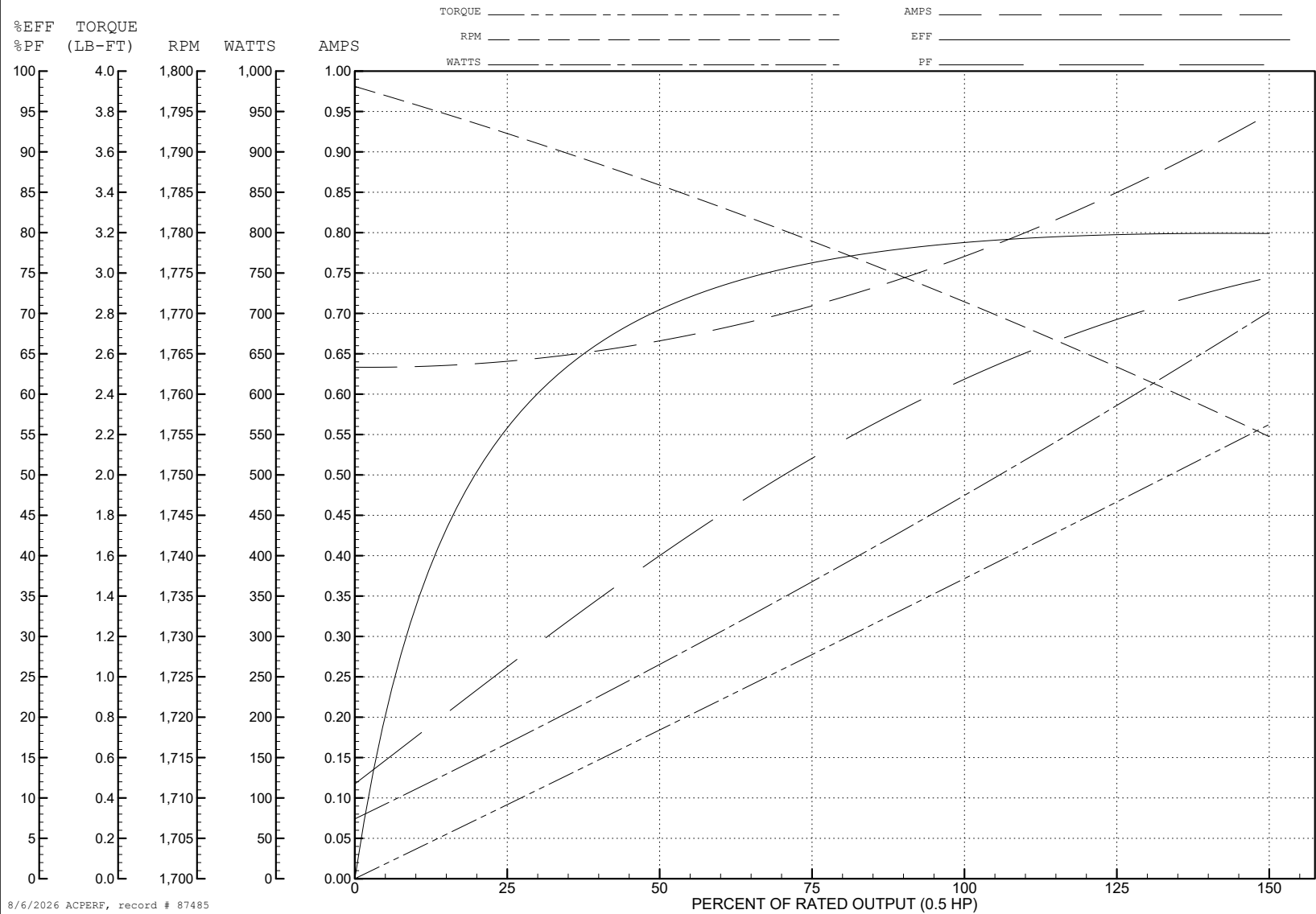
ABB Motors and Mechanical Inc.

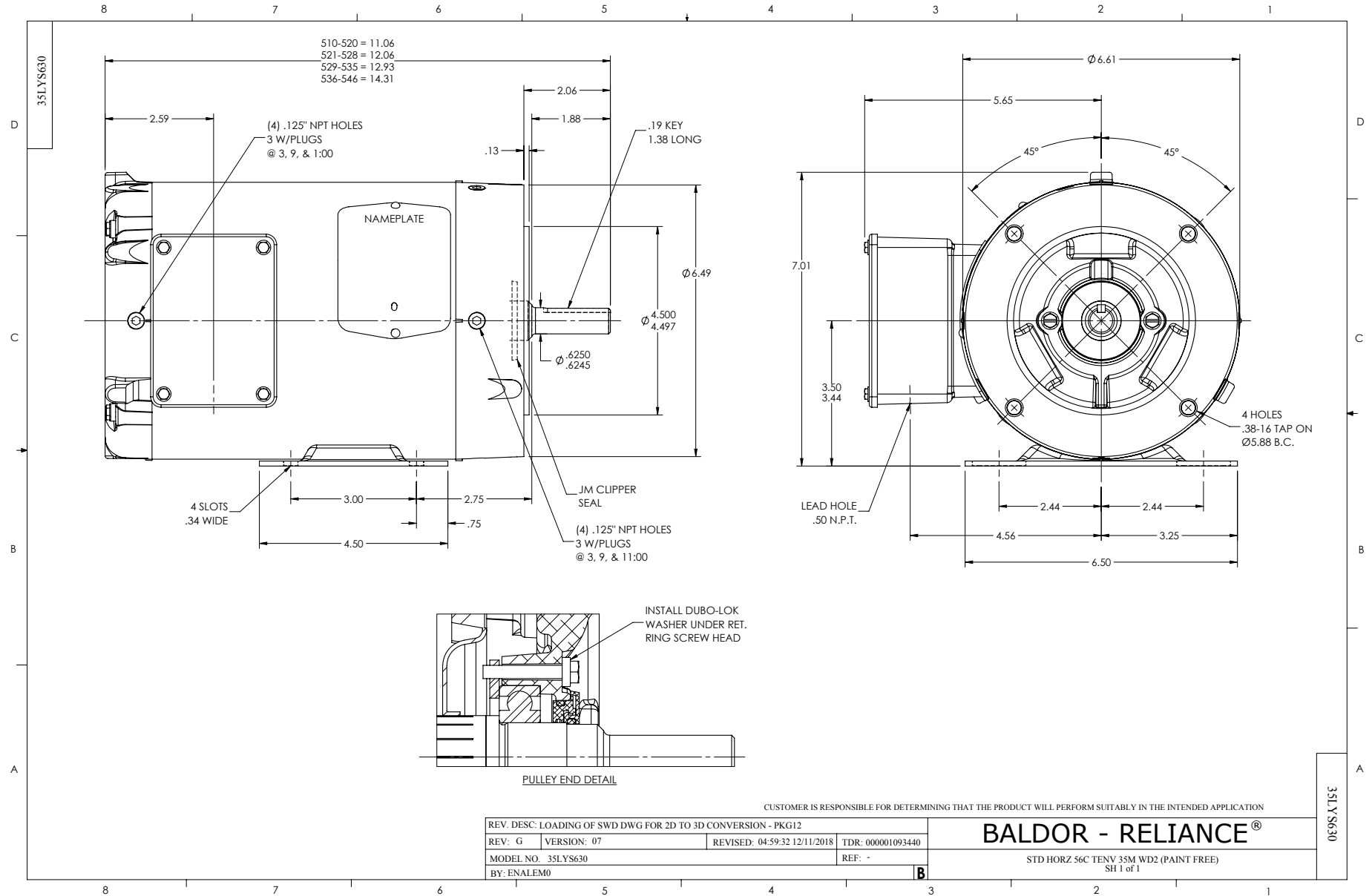
WINDING # 35WGG200

Typical performance - not guaranteed values.

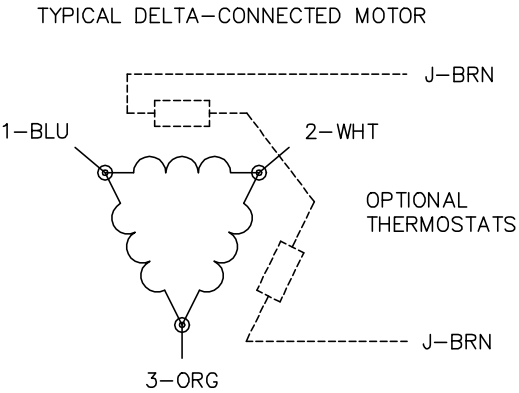
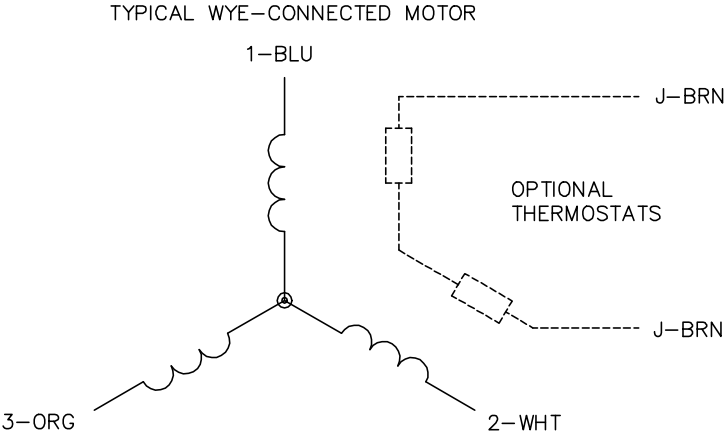
0.5 HP 3 PH 60 HZ 1770 RPM 575 V 3512M

TORQUES (LB-FT): PO=6.26 PU=3.25 LR=4.02 LRA=5.36





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