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# Customer information packet

## CSWDM3537-5

.5HP, 3450RPM, 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  | 3600 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| 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              | .650 A @ 575.0 V          |
| Design Code                    | B                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 70.0 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 0.7 a                     |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |
| KVA Code                       | L                         |
| Lifting Lugs                   | No Lifting Lugs           |
| Locked Bearing Indicator       | Locked Bearing            |

## Part detail

|              |            |
|--------------|------------|
| Revision     | F          |
| Type         | AC         |
| Mech. spec.  | 35S630     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGW038   |
| Layout       | 35LYS630   |
| Eff. date    | 09-11-2023 |
| CD Diagram   | CD0006     |
| Poles        | 02         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 05-23-2018 |

|                                      |                      |
|--------------------------------------|----------------------|
| <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>               | 2                    |
| <b>Overall Length</b>                | 11.06 IN             |
| <b>Power Factor</b>                  | 76                   |
| <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>RoHS Status</b>                   | ROHS COMPLIANT       |
| <b>Service Factor</b>                | 1.00                 |
| <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>                         | 3450 rpm             |
| <b>Speed Code</b>                    | Single Speed         |
| <b>Starting Method</b>               | Direct on line       |
| <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.      | CSWDM3537-5  |      |     |      |   |       |   |  |  |
| SPEC.        | 35S630W038G3 |      |     |      |   |       |   |  |  |
| HP           | .5           |      |     |      |   |       |   |  |  |
| VOLTS        | 575          |      |     |      |   |       |   |  |  |
| AMP          | .65          |      |     |      |   |       |   |  |  |
| RPM          | 3450         |      |     |      |   |       |   |  |  |
| FRAME        | 56C          |      | HZ  | 60   |   | PH    | 3 |  |  |
| SER.F.       | 1.00         | CODE | L   | DES  | B | CLASS | F |  |  |
| NEMA-NOM-EFF | 70           | PF   | 76  |      |   |       |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |   |  |  |
| CC           |              |      |     |      |   |       |   |  |  |
| DE           | 6205         |      | ODE | 6203 |   |       |   |  |  |
| ENCL         | TENV         | SN   |     |      |   |       |   |  |  |
|              |              |      |     |      |   |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 57842

Typical performance - not guaranteed values

| Winding: 35WGW038-R010 |    |       |              | Type: 3512M                           |   | Enclosure: TENV         |                  |                           |
|------------------------|----|-------|--------------|---------------------------------------|---|-------------------------|------------------|---------------------------|
| Nameplate Data         |    |       |              | 575 V, 60 Hz:<br>Single Voltage Motor |   |                         |                  |                           |
| Rated Output (HP)      |    | .5    |              | Full Load Torque                      |   | 0.752 LB-FT             |                  |                           |
| Volts                  |    | 575   |              | Start Configuration                   |   | direct on line          |                  |                           |
| Full Load Amps         |    | .65   |              | Breakdown Torque                      |   | 3.06 LB-FT              |                  |                           |
| R.P.M.                 |    | 3450  |              | Pull-up Torque                        |   | 2.14 LB-FT              |                  |                           |
| Hz                     | 60 | Phase | 3            | Locked-rotor Torque                   |   | 2.43 LB-FT              |                  |                           |
| NEMA Design Code       |    | B     |              | KVA Code                              | L |                         | Starting Current | 4.57 A                    |
| Service Factor (S.F.)  |    | 1     |              | No-load Current                       |   |                         |                  | 0.425 A                   |
| NEMA Nom. Eff.         |    | 70    | Power Factor | 76                                    |   | Line-line Res. @ 25°C   |                  | 51.3 Ω                    |
| Rating - Duty          |    | 40C   |              | AMB-CONT                              |   | Temp. Rise @ Rated Load |                  | 63°C                      |
|                        |    |       |              | Locked-rotor Power Factor             |   |                         |                  | 65.9                      |
|                        |    |       |              | Rotor inertia                         |   |                         |                  | 0.0332 LB-FT <sup>2</sup> |

**Load Characteristics 575 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25    | 50    | 75    | 100  | 125   | 150   |
|-----------------|-------|-------|-------|------|-------|-------|
| Power Factor    | 47    | 63    | 73    | 79   | 83    | 86    |
| Efficiency      | 43.9  | 59.7  | 66.9  | 70.5 | 72.1  | 72.4  |
| Speed           | 3557  | 3529  | 3501  | 3470 | 3437  | 3400  |
| Line amperes    | 0.455 | 0.507 | 0.578 | 0.67 | 0.772 | 0.883 |

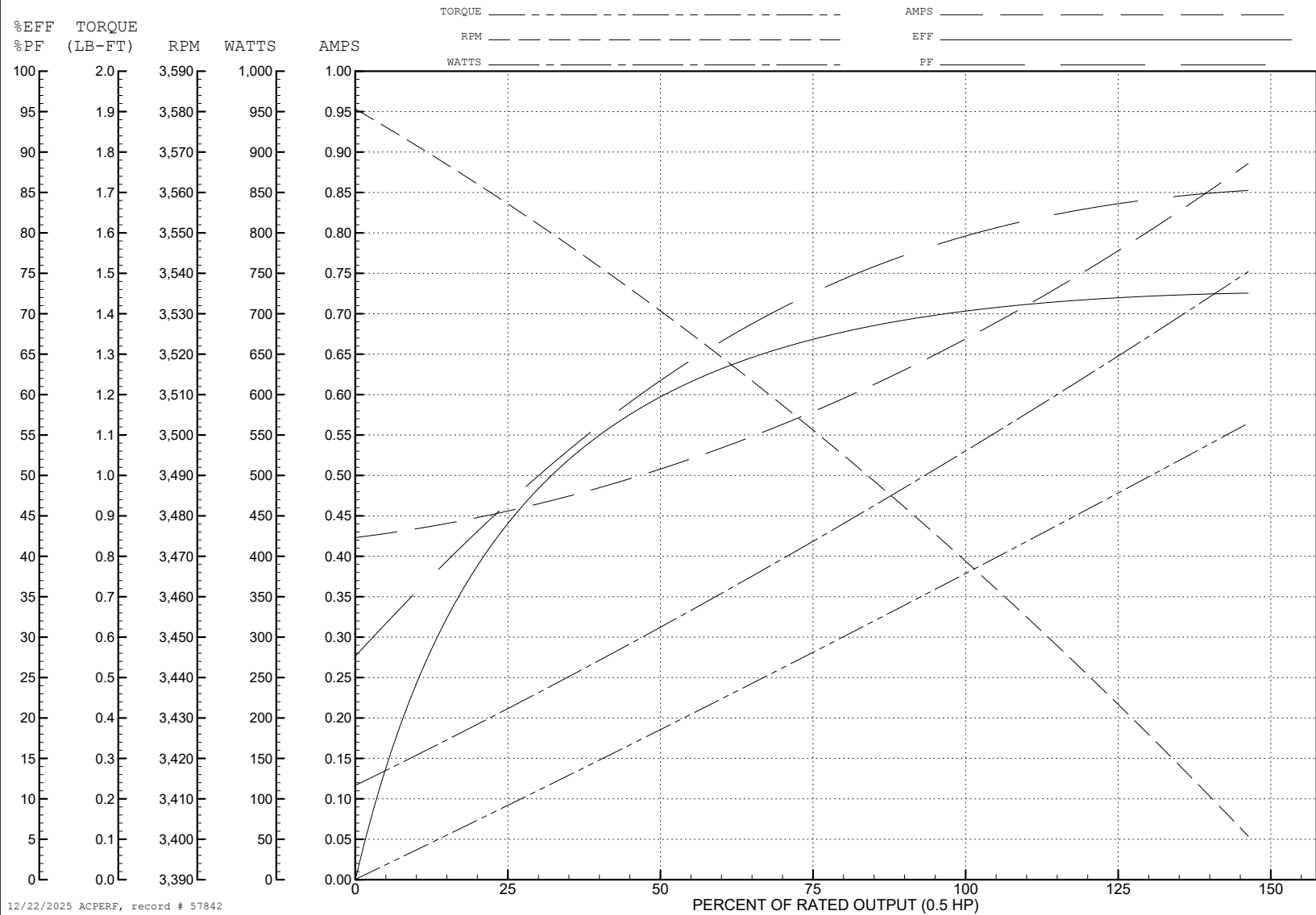
ABB Motors and Mechanical Inc.

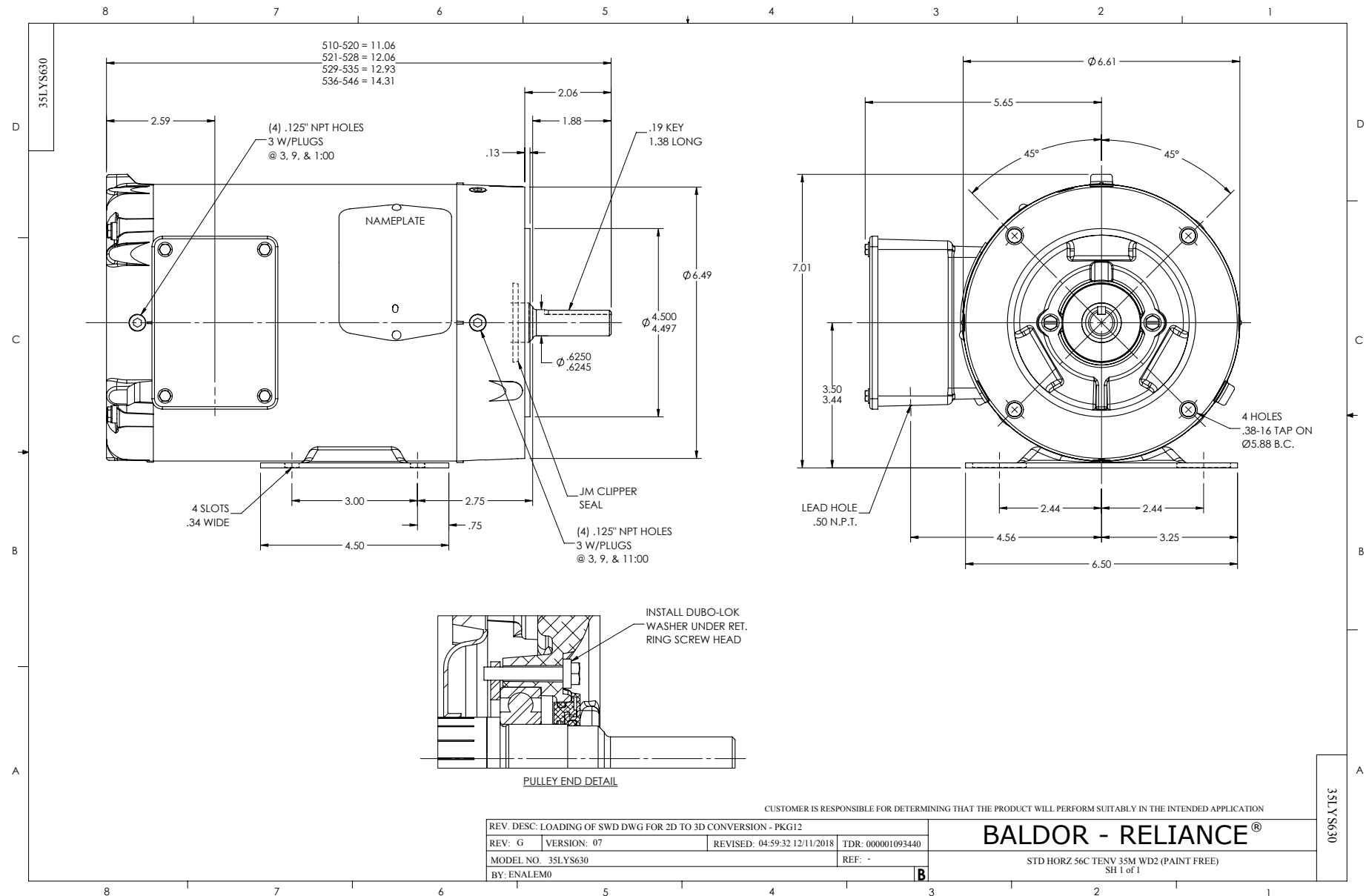
WINDING # 35WGW038

Typical performance - not guaranteed values.

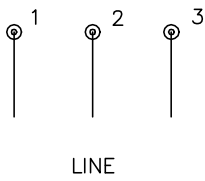
0.5 HP 3 PH 60 HZ 3450 RPM 575 V 3512M

TORQUES (LB-FT): PO=3.06 PU=2.14 LR=2.43 LRA=4.57





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