# Customer information packet

## CSWDM3537-5

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 5:16:37 PM

## 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 |

| | |
|---|---|
| **Motor Lead Quantity/Wire Size** | 3 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3512M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 11.06 IN |
| **Power Factor** | 76 |
| **Product Family** | Wash Down Paint Free |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | 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: 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. @ 25ºC** | 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-FT2 |

**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 |

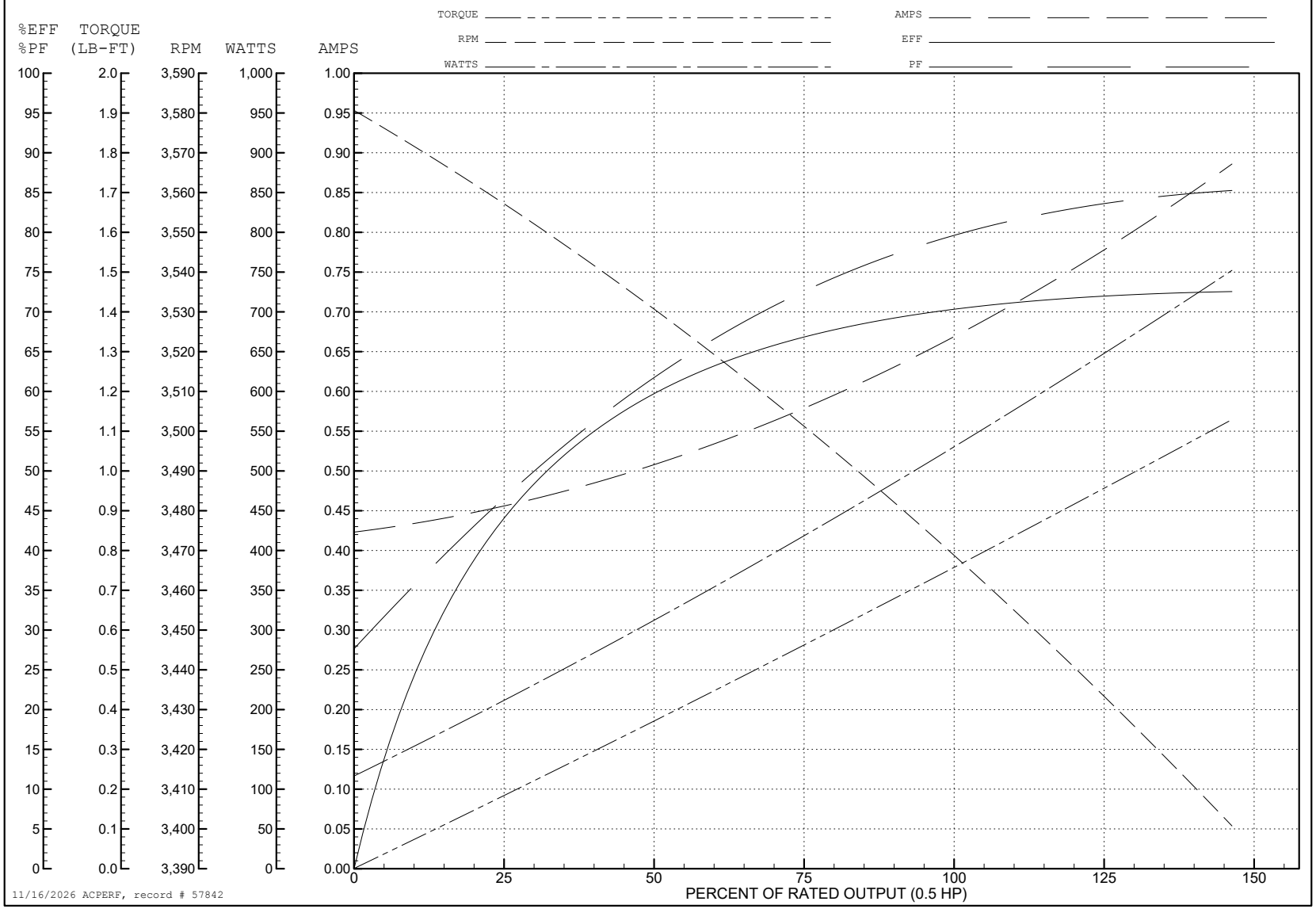
ABB Motors and Mechanical Inc.

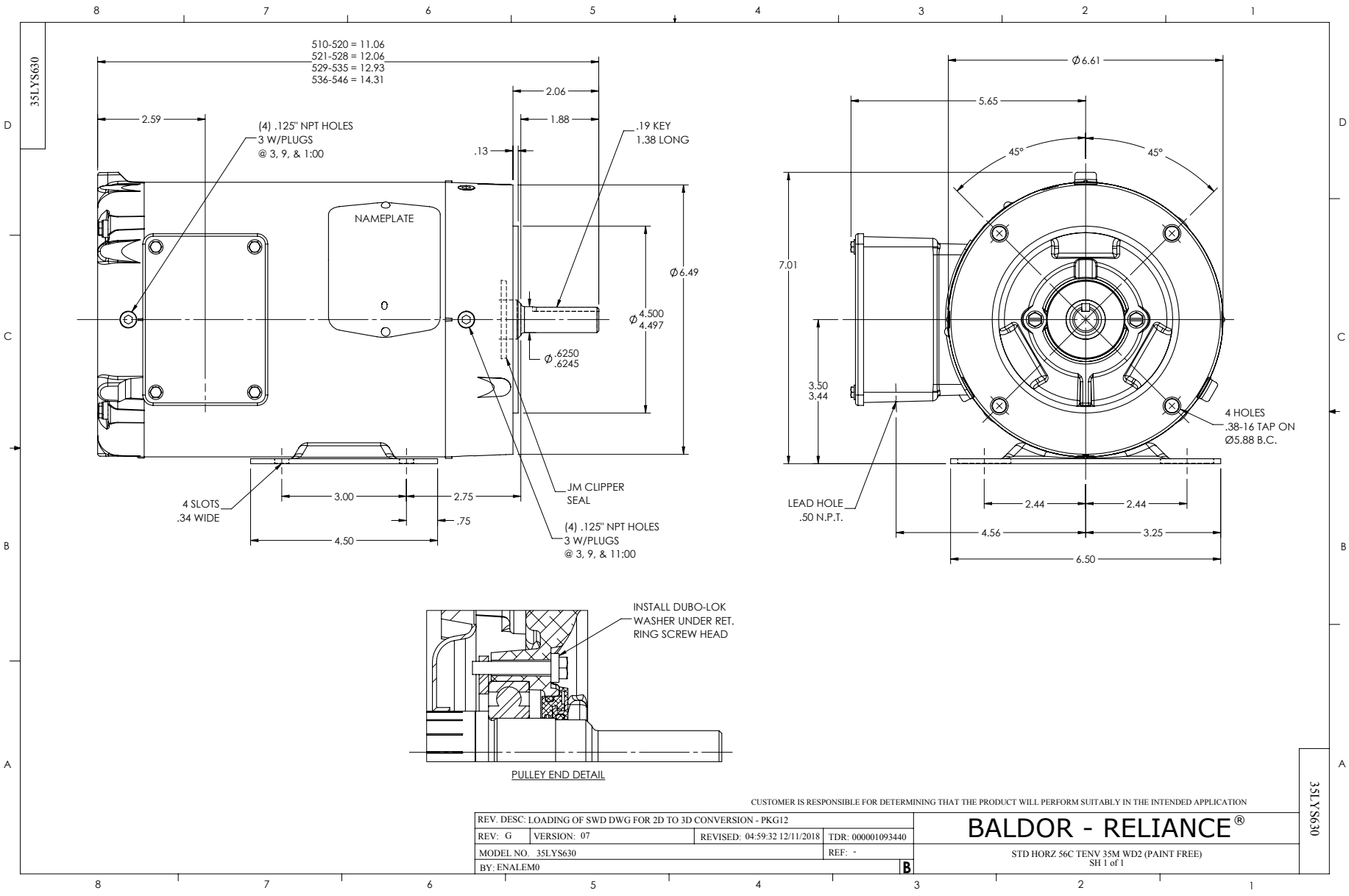
WINDING # 35WGW038

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

Typical performance - not guaranteed values.

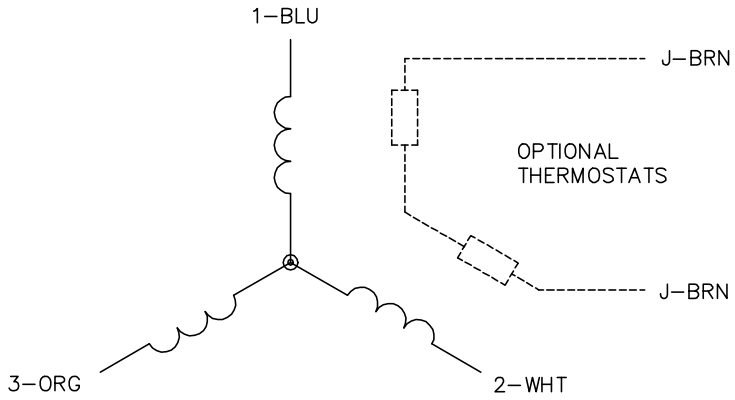
TORQUES(LB-FT): PO=3.06 PU=2.14 LR=2.43 LRA=4.57

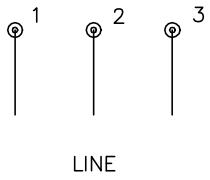



35LYS630
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
2.06
2.59
1.88
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.75
4.50
JM CLIPPER
SEAL
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
Ø6.61
5.65
45°
45°
7.01
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.44
2.44
4.56
3.25
6.50
INSTALL DUBO-LOK
WASHER UNDER RET.
RING SCREW HEAD
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG12
REV: G
VERSION: 07
REVISED: 04:59:32 12/11/2018
TDR: 000001093440
MODEL NO. 35LYS630
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 56C TENV 35M WD2 (PAINT FREE)
SH 1 of 1
35LYS630

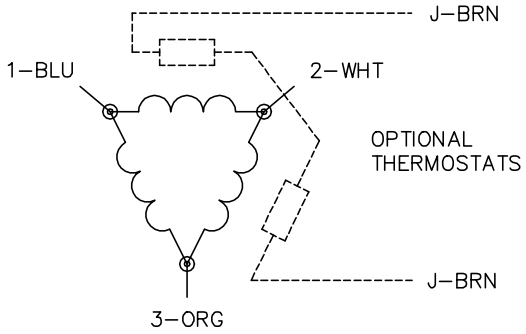
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

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

SH 1 of 1