ABB BALDOR RELIANCE

# Customer information packet

## CWDM3561TP-5

3HP, 1655RPM, 3PH, 60HZ, 145TC, 3540M, TEFC, F3
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.
11/18/2026 5:46:42 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TC |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | C UR US |
| **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** | 3.400 A @ 575.0 V |
| **Design Code** | D |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 81.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.4 a |
| **Insulation Class** | H |
| **Inverter Code** | Not Inverter |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |

## Part Detail

| | |
|---|---|
| **Revision** | A |
| **Type** | AC |
| **Mech. spec.** | 35E2678 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG300 |
| **Layout** | 35LYE2678 |
| **Eff. date** | 08-07-2024 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#18 |
| **Proprietary** | False |
| **Created date** | 09-20-2023 |

| | |
|---|---|
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 3 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3540M |
| **Mounting Arrangement** | F3 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.54 IN |
| **Power Factor** | 80 |
| **Product Family** | Wash Down |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1655 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1496L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CWDM3561TP-5 | | | | | | | |
| **SPEC.** | 35E2678G300G1 | | | | | | | |
| **HP** | 3 | | | | | | | |
| **VOLTS** | 575 | | | | | | | |
| **AMP** | 3.4 | | | | | | | |
| **RPM** | 1655 | | | | | | | |
| **FRAME** | 145TC | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.00 | **CODE** | J | **DES** | D | **CLASS** | H | |
| **NEMA-NOM-EFF** | 81.5 | **PF** | 80 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |

**AC Induction Motor Performance Data**
Record # 86944
Preliminary Data Sheet

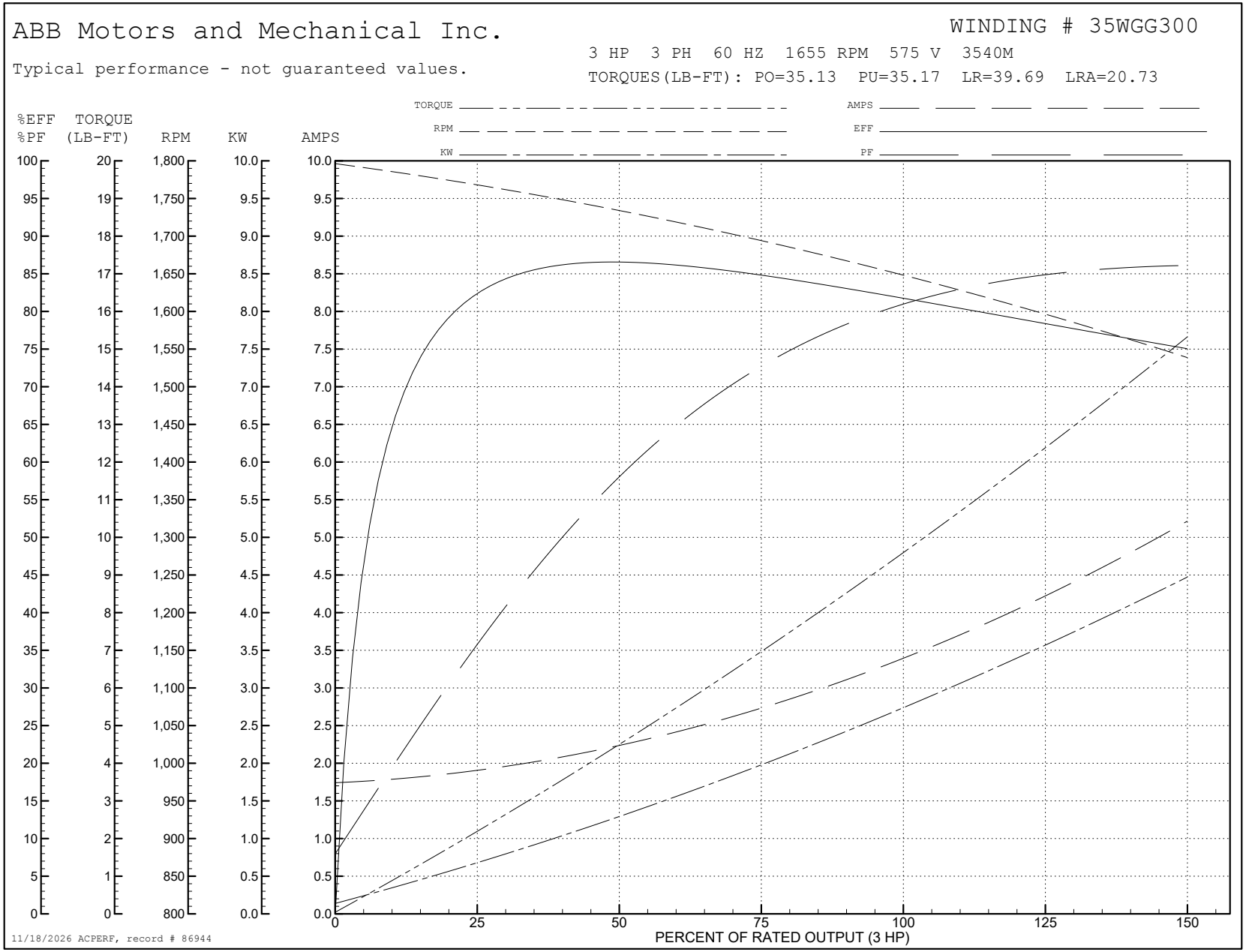
| **Winding:** 35WGG300-R001 | **Type:** 3540M | **Enclosure:** TEFC |
|---|---|---|

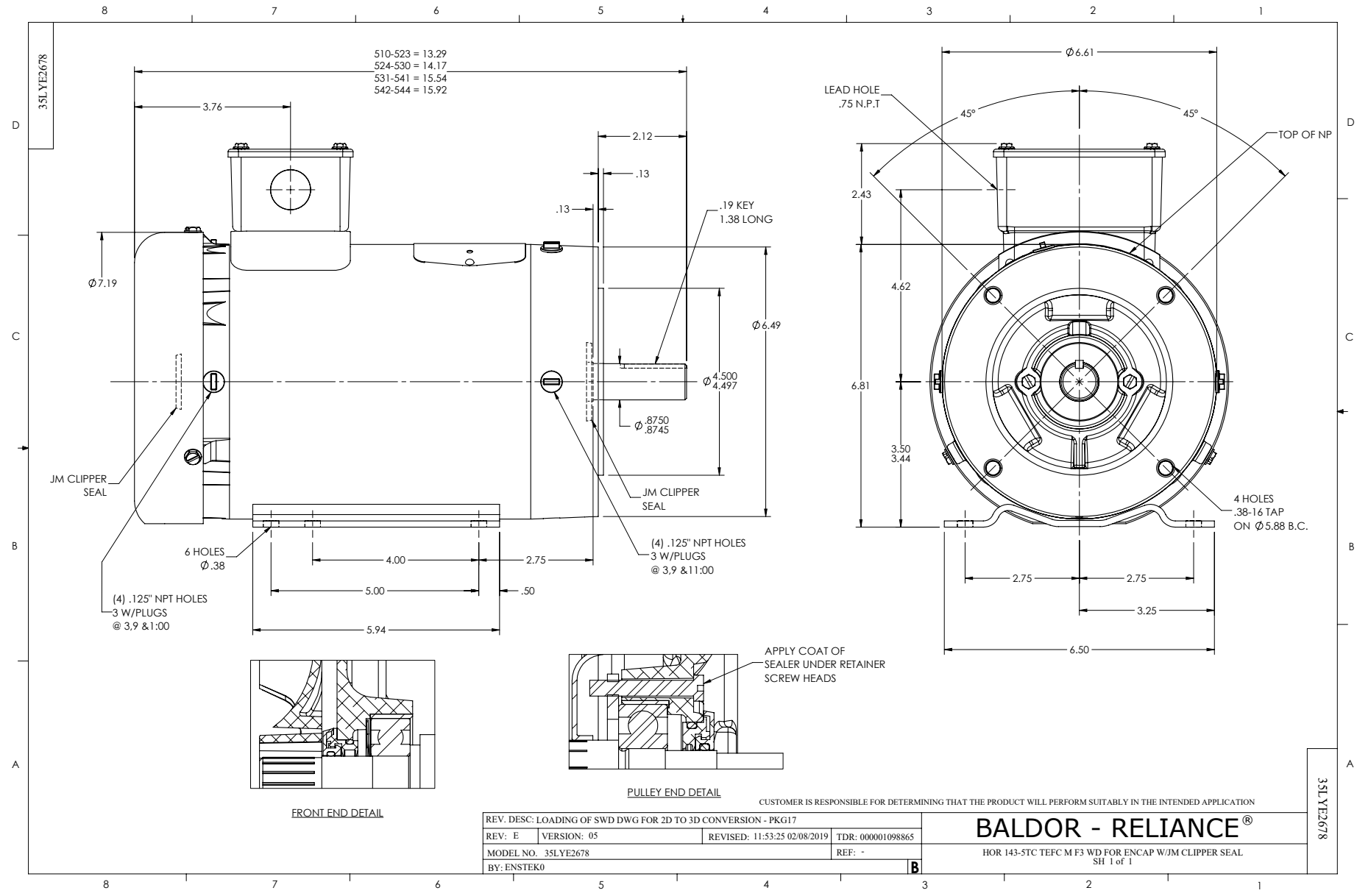
| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 3 |
| **Volts** | | | 575 |
| **Full Load Amps** | | | 3.4 |
| **R.P.M.** | | | 1655 |
| **Hz** | 60 | **Phase** | 3 |
| **NEMA Design Code** | D | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 81.5 | **Power Factor** | 80 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **575 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 9.59 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 35.13 LB-FT |
| **Pull-up Torque** | 35.17 LB-FT |
| **Locked-rotor Torque** | 39.69 LB-FT |
| **Starting Current** | 20.73 A |
| **No-load Current** | 1.76 A |
| **Line-line Res. @ 25ºC** | 8.88 Ω |
| **Temp. Rise @ Rated Load** | 118°C |
| **Locked-rotor Power Factor** | 71.3 |
| **Rotor inertia** | 0.289 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 3 HP**

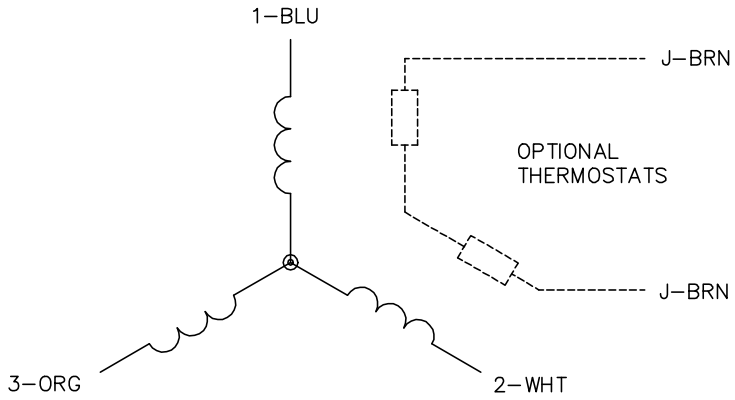
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 38 | 60 | 72 | 80 | 84 | 87 |
| **Efficiency** | 80.1 | 85 | 84.7 | 82.3 | 79 | 74.6 |
| **Speed** | 1766 | 1732 | 1694 | 1649 | 1598 | 1537 |
| **Line amperes** | 1.88 | 2.23 | 2.75 | 3.42 | 4.22 | 5.21 |

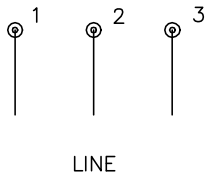

ABB Motors and Mechanical Inc.
WINDING # 35WGG300
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1655 RPM 575 V 3540M
TORQUES(LB-FT): PO=35.13 PU=35.17 LR=39.69 LRA=20.73
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/18/2026 ACPERF, record # 86944


35LYE2678
510-523 = 13.29
524-530 = 14.17
531-541 = 15.54
542-544 = 15.92
3.76
2.12
.13
.13
.19 KEY
1.38 LONG
Ø7.19
Ø6.49
Ø4.500
4.497
Ø.8750
.8745
JM CLIPPER SEAL
JM CLIPPER SEAL
6 HOLES
Ø.38
4.00
2.75
5.00
.50
5.94
(4) .125" NPT HOLES
3 W/PLUGS
@ 3,9 &1:00
(4) .125" NPT HOLES
3 W/PLUGS
@ 3,9 &11:00
Ø6.61
LEAD HOLE
.75 N.P.T
45°
45°
TOP OF NP
2.43
4.62
6.81
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
2.75
2.75
3.25
6.50
APPLY COAT OF
SEALER UNDER RETAINER
SCREW HEADS
FRONT END DETAIL
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 - PKG17
REV: E
VERSION: 05
REVISED: 11:53:25 02/08/2019
TDR: 000001098865
MODEL NO. 35LYE2678
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HOR 143-5TC TEFC M F3 WD FOR ENCAP W/JM CLIPPER SEAL
SH 1 of 1
35LYE2678

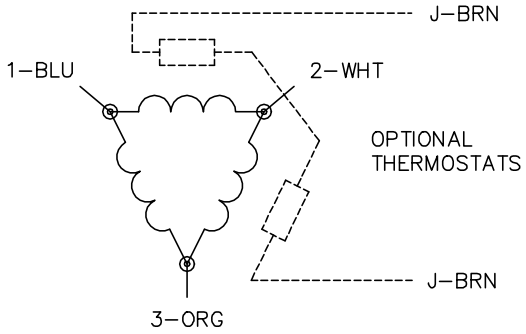
CD0006

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