ABB BALDOR RELIANCE

# Customer information packet

## CEM2555T

100HP, 1780RPM, 3PH, 60HZ, 404TC, 4484M, OPSB

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 404TC |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 100.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| | NEMA PREMIUM (OLD LOGO) |
| **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** | 236.000 A @ 230.0 V |
| | 248.000 A @ 208.0 V |
| | 118.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 95.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 118.0 a |

## Part Detail

| | |
|---|---|
| **Revision** | U |
| **Type** | AC |
| **Mech. spec.** | 44E013 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 44WGW308 |
| **Layout** | 44LYE013 |
| **Eff. date** | 11-19-2024 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#4 |
| **Proprietary** | False |
| **Created date** | 07-29-2010 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 4 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4484M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 36.97 IN |
| **Power Factor** | 83 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.875 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1780 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**

| NP2138LUA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM2555T | | | **P/N** | | | | **ENCLOSURE** | OPSB | | | |
| **SPEC.** | 44E013W308G1 | **CC** | 010A | | **FRAME** | 404TC | | **S/N** | | | | |
| **HP** | 100 | | | **CLASS** | F | | **HZ** | 60 | | | | |
| **RPM** | 1780 | | | **PH** | 3 | | **DES** | A | | | | |
| **VOLT** | 230/460 | | | | **KVA-CODE** | H | | **ODE BRG** | 6312 | **DE BRG** | 6316 | |
| **AMP** | 236/118 | | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | **GREASE** | POLYREX EM | | | | | | |
| **NEMA-NOM-EFF** | 95.4 | **PF** | 83 | **SER.F.** | 1.15 | | | | | | | |
| | 50Hz 100Hp 190/380V 280/140A | | | | | | SF 1.0 | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | | | | | | | | |

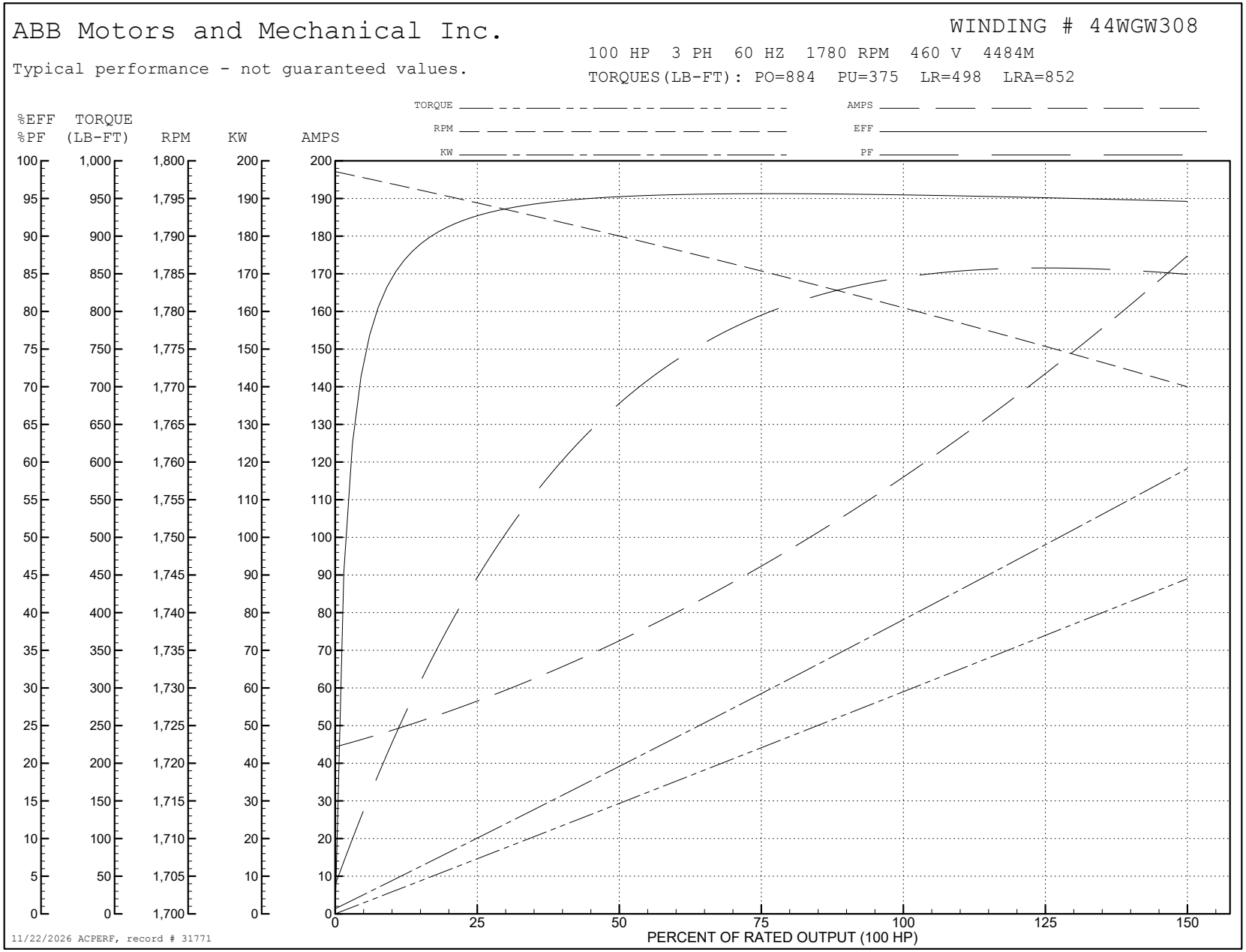
**AC Induction Motor Performance Data**
Record # 31771
Typical performance - not guaranteed values

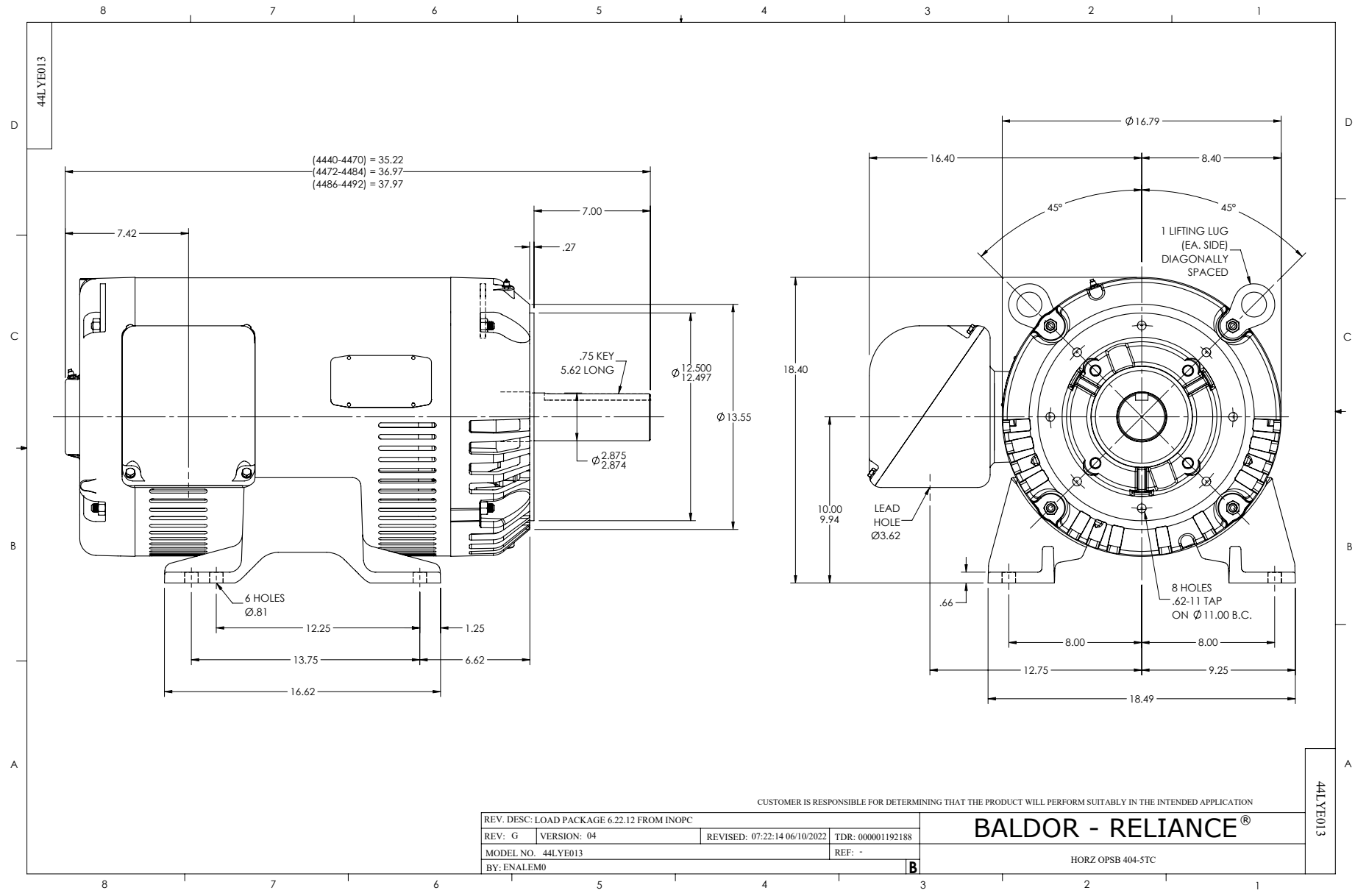
| **Winding:** 44WGW308-R001 | **Type:** 4484M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 100 | **Full Load Torque** | 295 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 236/118 | **Breakdown Torque** | 884 LB-FT |
| **R.P.M.** | | | 1780 | **Pull-up Torque** | 375 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 498 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 852 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 46.4 A |
| **NEMA Nom. Eff.** | 95.4 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 0.045551 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 47°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 57°C |
| | | | | **Locked-rotor Power Factor** | 25.3 |
| | | | | **Rotor inertia** | 15.9 LB-FT2 |

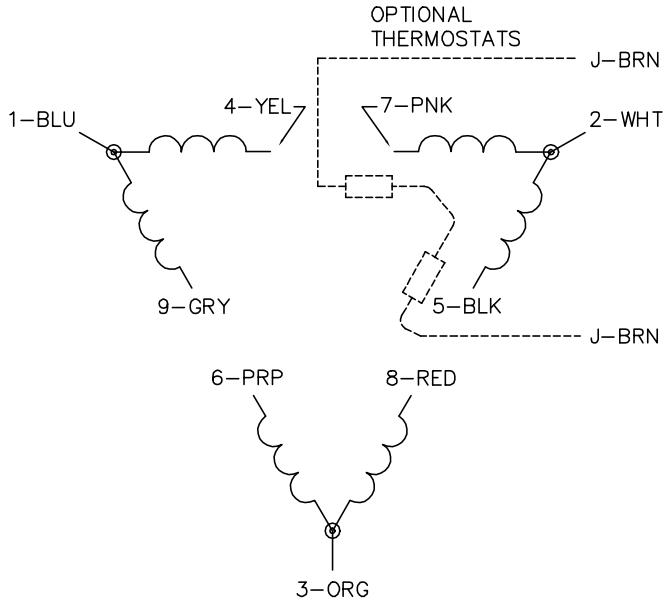
**Load Characteristics 460 V, 60 Hz, 100 HP**

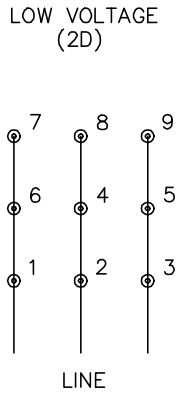
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 46 | 70 | 79 | 83 | 85 | 86 | 84 |
| **Efficiency** | 92.6 | 95.3 | 95.7 | 95.6 | 95.2 | 94.6 | 95.4 |
| **Speed** | 1794 | 1789.8 | 1785.5 | 1780.7 | 1775.5 | 1769.8 | 1778 |
| **Line amperes** | 54.2 | 70.6 | 92.8 | 118 | 145 | 173 | 134 |

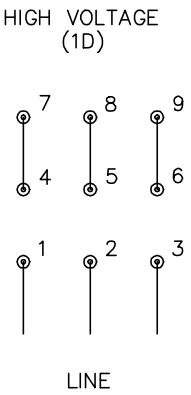

ABB Motors and Mechanical Inc.
WINDING # 44WGW308
100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M
TORQUES(LB-FT): PO=884 PU=375 LR=498 LRA=852
Typical performance - not guaranteed values.
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (100 HP)
11/22/2026 ACPERF, record # 31771


44LYE013
(4440-4470) = 35.22
(4472-4484) = 36.97
(4486-4492) = 37.97
7.42
7.00
.27
.75 KEY
5.62 LONG
Ø12.500
12.497
Ø13.55
Ø2.875
2.874
6 HOLES
Ø.81
12.25
1.25
13.75
6.62
16.62
Ø16.79
16.40
8.40
45°
45°
1 LIFTING LUG
(EA. SIDE)
DIAGONALLY
SPACED
18.40
10.00
9.94
LEAD
HOLE
Ø3.62
.66
8 HOLES
.62-11 TAP
ON Ø11.00 B.C.
8.00
8.00
12.75
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PACKAGE 6.22.12 FROM INOPC
REV: G
VERSION: 04
REVISED: 07:22:14 06/10/2022
TDR: 000001192188
MODEL NO. 44LYE013
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 404-5TC
44LYE013

CD0180




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1