ABB BALDOR RELIANCE

# Customer information packet

## CFSWDM41904T

30HP, 1775RPM, 3PH, 60HZ, 284TC, 4074M, TEFC, F

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 286TC |
| **Frame Material** | Stainless Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 30.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | NEMA PREMIUM |
| | 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** | 37.000 A @ 460.0 V |
| | 74.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 93.6 % |
| **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** | 37.0 a |
| **Insulation Class** | H |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | 40E429 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 40WGX291 |
| **Layout** | 40LYE429 |
| **Eff. date** | 11-14-2023 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 06-14-2017 |

| | |
|---|---|
| **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 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4074M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 28.14 IN |
| **Power Factor** | 82 |
| **Product Family** | WD All SD Non-Encapsulated |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1775 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**

| NP4427AAA05 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | CFSWDM41904T | | | **WGT** | | **LBS** | | | | | | |
| **SPEC** | 40E429X291G1 | | | **ENCL** | TEFC | | | | | | | |
| **SER #** | | | | **CC** | 010A | **IP** | 69 | | | | | |
| **HP** | 30 | | **MAG CUR** | 31.8/15.9 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | **NEMA NOM. EFF** | 93.6 | | | | | |
| **AMPS** | 74/37 | | | | **PF** | 82 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1775 | | | **MAX RPM** | 2700 | | | | | | | |
| **FRAME** | 286TC | **HZ** | 60 | **CODE** | H | **CLASS** | H | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | | **PH** | 3 | **DES** | A | | | | | |
| **DE** | 6311 | | **ODE** | 6311 | | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | **INV TYPE:** | | **VPWM** | **CHP** | 60 | **TO** | 90 | | 1.5:1 | | | |
| **ID LOGO** | **WK2** | 5.89 | **CT** | 20 | **TO** | 60 | | 3:1 | | | | |
| **ID LOGO** | **SL HZ** | 0.8 | **VT** | 6 | **TO** | 60 | | 10:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | **QR** | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 68511
Typical performance - not guaranteed values

| **Winding:** 40WGX291-R001 | **Type:** 4074M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 30 | **Full Load Torque** | 88.96 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 74/37 | **Breakdown Torque** | 336 LB-FT |
| **R.P.M.** | | | 1775 | **Pull-up Torque** | 132 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 173 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 267 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 15.9 A |
| **NEMA Nom. Eff.** | 93.6 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 0.18115 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 73°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 85°C |
| | | | | **Locked-rotor Power Factor** | 29.8 |
| | | | | **Rotor inertia** | 5.89 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 30 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 66 | 77 | 82 | 84 | 85 | 83 |
| **Efficiency** | 88.3 | 92.6 | 93.7 | 93.8 | 93.6 | 93 | 93.7 |
| **Speed** | 1793.4 | 1787.8 | 1782.2 | 1776.1 | 1769.6 | 1761.9 | 1772 |
| **Line amperes** | 18.2 | 23 | 29.4 | 36.7 | 44.5 | 53.2 | 41.4 |

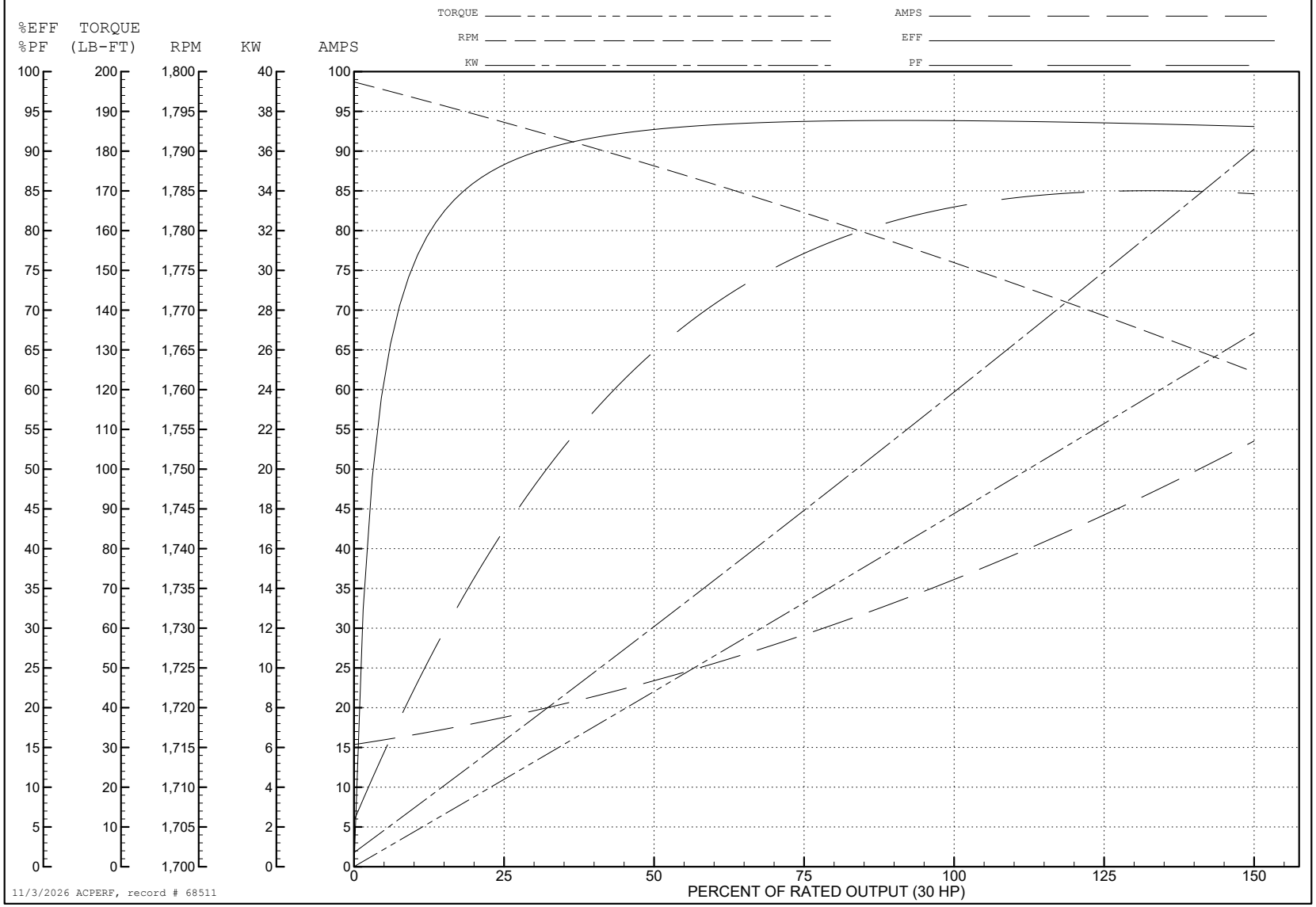
ABB Motors and Mechanical Inc.

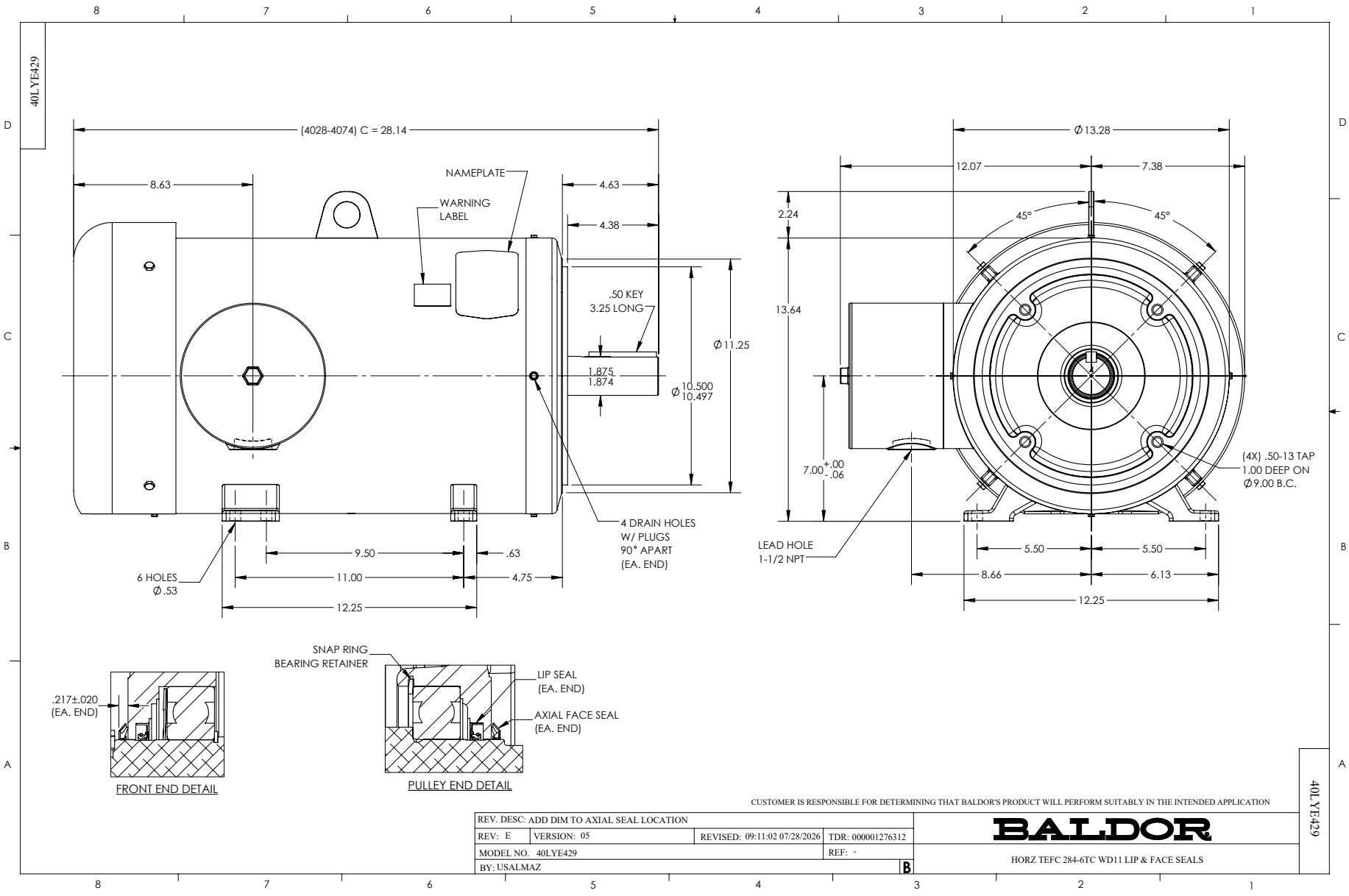
WINDING # 40WGX291

30 HP 3 PH 60 HZ 1775 RPM 460 V 4074M

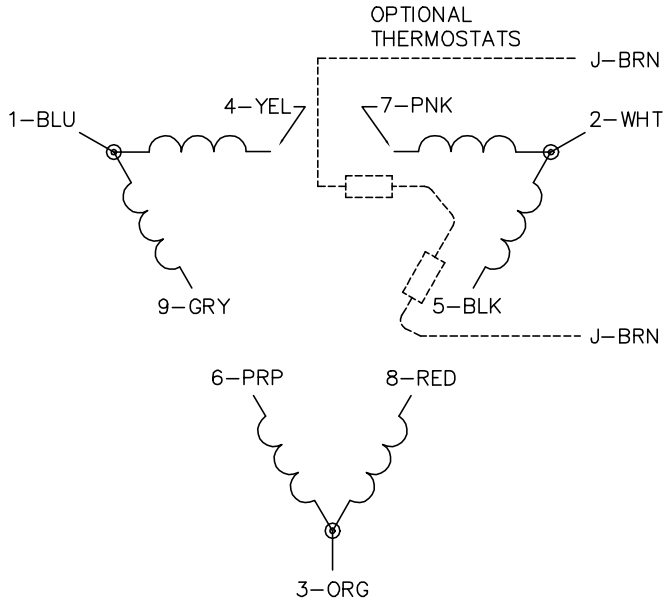
Typical performance - not guaranteed values.

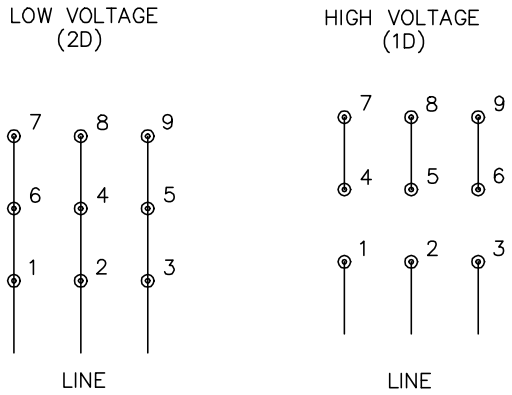
TORQUES(LB-FT): PO=336 PU=132 LR=173 LRA=267




40LYE429
(4028-4074) C = 28.14
8.63
NAMEPLATE
WARNING LABEL
4.63
4.38
.50 KEY
3.25 LONG
Ø11.25
1.875
1.874
Ø10.500
10.497
4 DRAIN HOLES
W/ PLUGS
90° APART
(EA. END)
6 HOLES
Ø.53
9.50
.63
11.00
4.75
12.25
Ø13.28
12.07
7.38
2.24
45°
45°
13.64
7.00 +.00 -.06
(4X) .50-13 TAP
1.00 DEEP ON
Ø9.00 B.C.
LEAD HOLE
1-1/2 NPT
5.50
5.50
8.66
6.13
12.25
SNAP RING
BEARING RETAINER
LIP SEAL
(EA. END)
AXIAL FACE SEAL
(EA. END)
.217±.020
(EA. END)
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: E
VERSION: 05
REVISED: 09:11:02 07/28/2026
TDR: 000001276312
MODEL NO. 40LYE429
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 284-6TC WD11 LIP & FACE SEALS
40LYE429

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