ABB BALDOR RELIANCE

# Customer information packet

## ECP4104T-5

30HP, 1770RPM, 3PH, 60HZ, 286T, 1060M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 286T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 30.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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 |
| **Constant Torque Speed Range** | 0.8 |
| **Current @ Voltage** | 29.000 A @ 575.0 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 |

## Part Detail

| | |
|---|---|
| **Revision** | AJ |
| **Type** | AC |
| **Mech. spec.** | 10H292 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGX453 |
| **Layout** | 10LYH292 |
| **Eff. date** | 09-29-2025 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#10 |
| **Proprietary** | False |
| **Created date** | 01-09-2013 |

| | |
|---|---|
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 29.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1060M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 28.00 IN |
| **Power Factor** | 83 |
| **Product Family** | Super-E Chemical Processing |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **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** | Shaft Slinger |
| **Speed** | 1770 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**

**NP3241**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECP4104T-5 | | | **P/N** | | | | **ENCLOSURE** | TEFC | | | | |
| **SPEC.** | 10H292X453 | **CC** | 010A | **FRAME** | 286T | | | **S/N** | | | | | |
| **HP** | 30 | | | **CLASS** | F | **HZ** | 60 | **DES** | A | | | | |
| **RPM** | 1770 | | | **RPM MAX** | 2700 | | | **PH** | 3 | **KVA-CODE** | H | | |
| **VOLT** | 575 | | | | | **MOTOR WEIGHT** | 485 | | | | | | |
| **AMP** | 29 | | | **SER.F.** | 1.15 | **PF** | 83 | **ODE BRG** | 6311 | **DE BRG** | 6311 | | |
| **RATING** | 40C AMB-CONT | | | | | **NEMA-NOM-EFF** | 93.6 | **GREASE** | POLYREX EM | | | | |
| | | | | | | | | **INV.TYPE** | PWM | | | | |
| **TEMP CODE** | T3C | | | **INVERTER-TEMP-CODE** | 180 | | | | | | | | |
| **TEMP =** | 160 | **C HP FR** | 60 | | | **C HP TO** | 90 | | | | | | |
| **CT HZ FROM** | 0.8 | | | **CT HZ TO** | 60 | | | | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | | **HTR-WATTS** | | **MAX. SPACE HEATER TEMP.** | | | | **VT HZ FROM** | O **VT HZ TO** 60 |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 10-1305ECP | C FACE KIT (C-FACE SWAP FOR ECP MOTOR) | A8 |

**AC Induction Motor Performance Data**
Record # 47184
Typical performance - not guaranteed values

| **Winding:** 10WGX453-R018 | **Type:** 1060M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 30 | **Full Load Torque** | 89 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 29 | **Breakdown Torque** | 284 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 135 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 154 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 197 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 12.8 A |
| **NEMA Nom. Eff.** | 93.6 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 0.317 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 55°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 67°C |
| | | | | **Locked-rotor Power Factor** | 31.9 |
| | | | | **Rotor inertia** | 4.77 LB-FT2 |

**Load Characteristics 575 V, 60 Hz, 30 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 44 | 66 | 75 | 83 | 83 | 83 | 83 |
| **Efficiency** | 90.7 | 93.8 | 94.4 | 94.3 | 93.8 | 93.1 | 94 |
| **Speed** | 1794 | 1788 | 1782 | 1775 | 1768 | 1759 | 1771 |
| **Line amperes** | 14.4 | 18.4 | 24 | 28.8 | 36 | 43.2 | 33.1 |

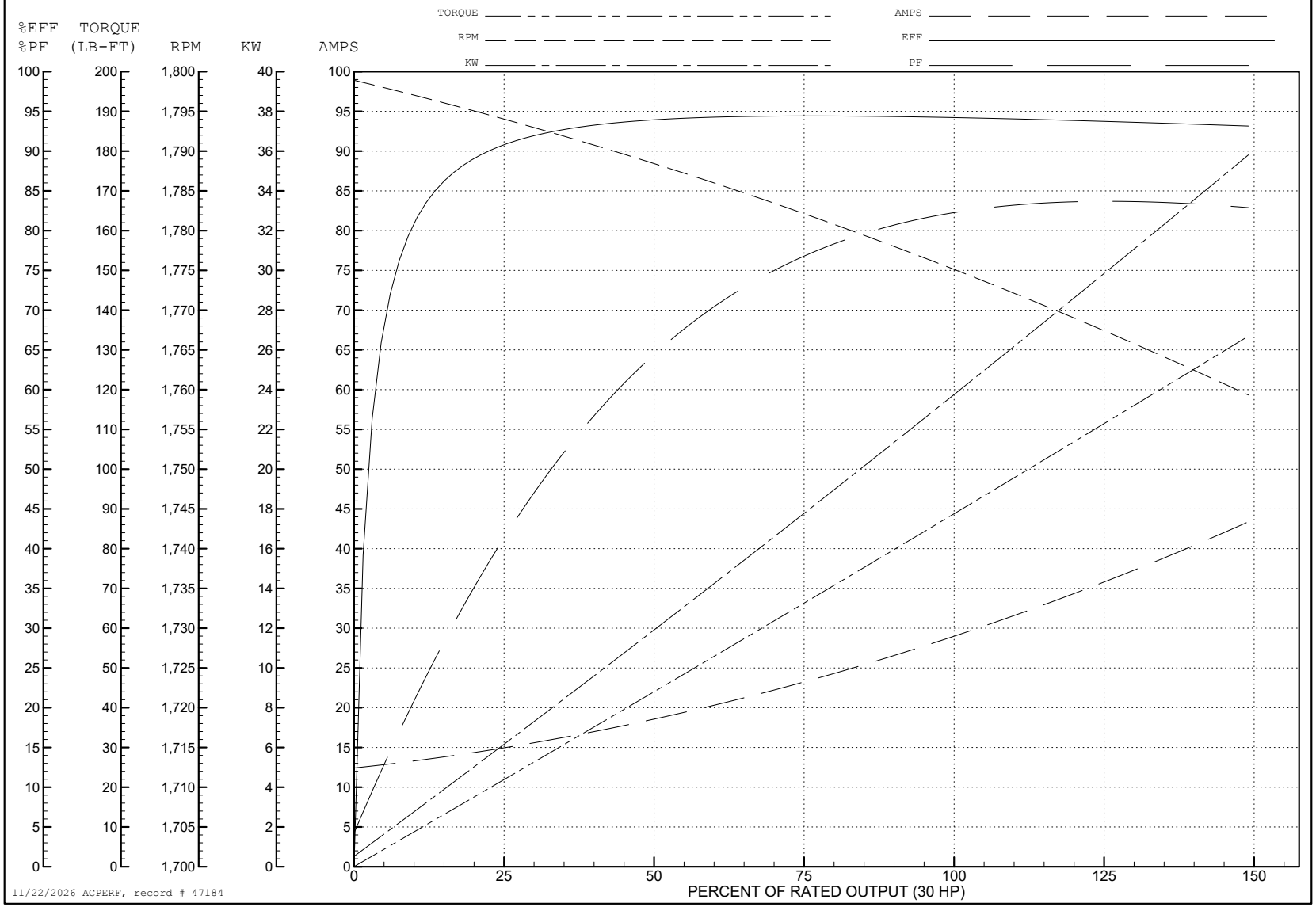
ABB Motors and Mechanical Inc.

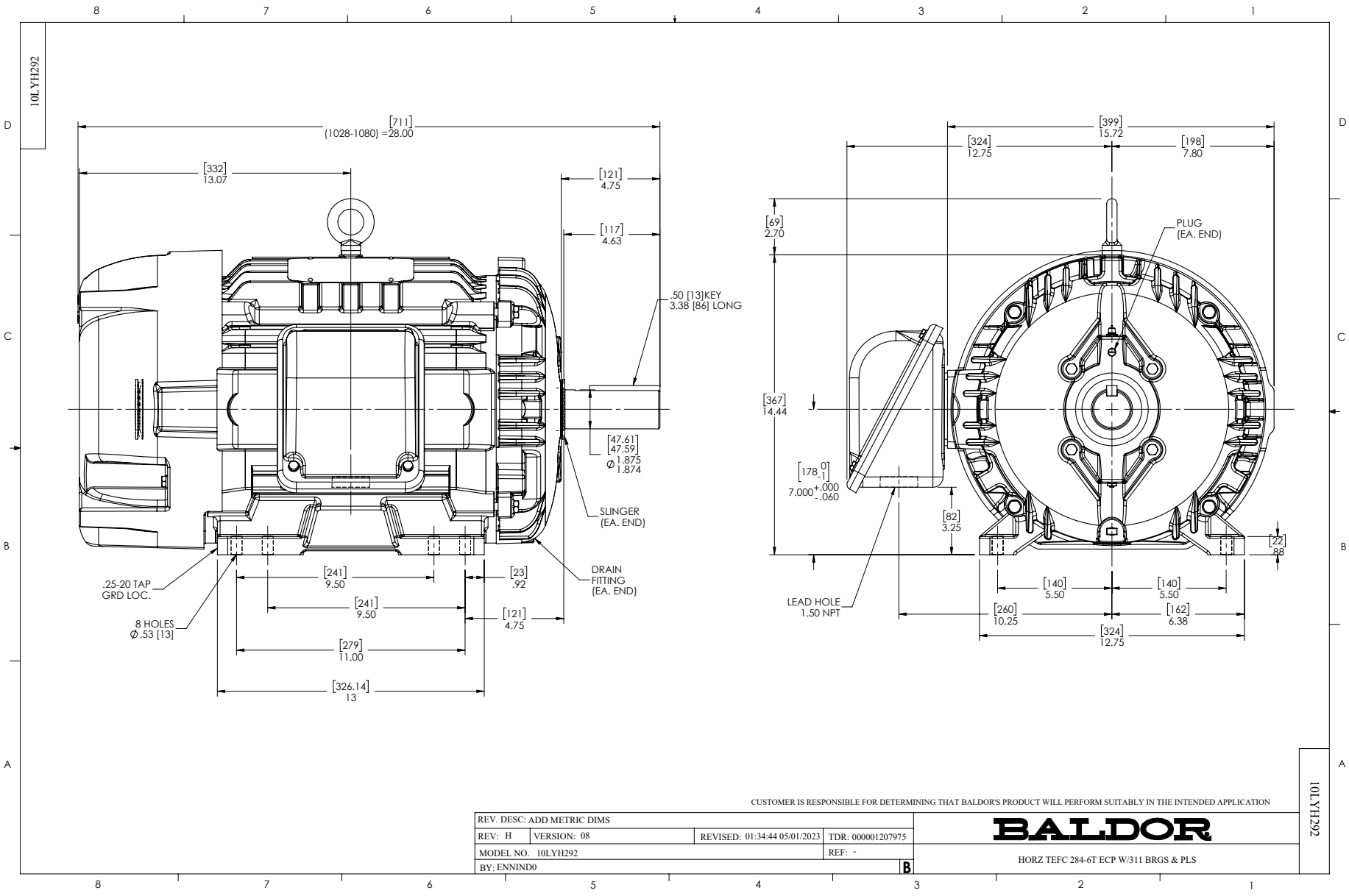
WINDING # 10WGX453

30 HP 3 PH 60 HZ 1770 RPM 575 V 1060M

TORQUES(LB-FT): PO=284 PU=135 LR=154 LRA=197

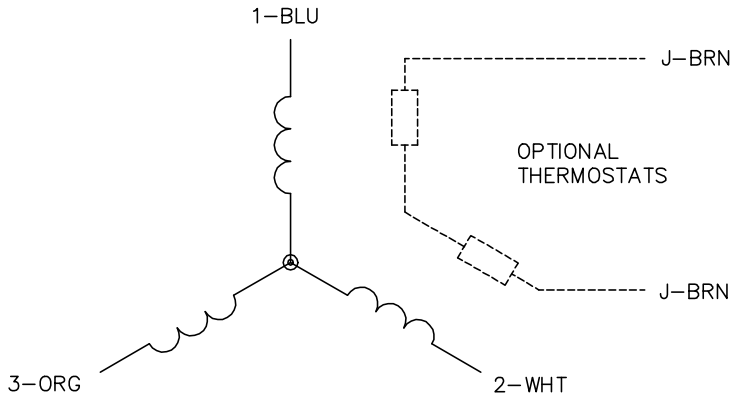
Typical performance - not guaranteed values.

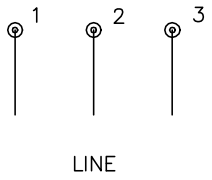



10LYH292
[711]
(1028-1080) =28.00
[332]
13.07
[121]
4.75
[117]
4.63
.50 [13]KEY
3.38 [86] LONG
[47.61]
[47.59]
Ø 1.875
Ø 1.874
SLINGER
(EA. END)
DRAIN
FITTING
(EA. END)
.25-20 TAP
GRD LOC.
8 HOLES
Ø .53 [13]
[241]
9.50
[23]
.92
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9.50
[121]
4.75
[279]
11.00
[326.14]
13
[399]
15.72
[324]
12.75
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7.80
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2.70
PLUG
(EA. END)
[367]
14.44
[178.0 -1]
7.000 +.000 -.060
[82]
3.25
[22]
.88
LEAD HOLE
1.50 NPT
[140]
5.50
[140]
5.50
[260]
10.25
[162]
6.38
[324]
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMS
REV: H
VERSION: 08
REVISED: 01:34:44 05/01/2023
TDR: 000001207975
MODEL NO. 10LYH292
REF: -
BY: ENNIND0
B
BALDOR
HORZ TEFC 284-6T ECP W/311 BRGS & PLS
10LYH292

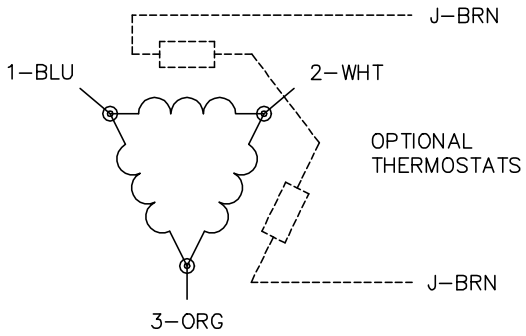
CD0006

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 |
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| MTL: – | | |

BALDOR - RELIANCE®

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

SH 1 of 1