ABB BALDOR RELIANCE

# Customer information packet

## VHECP2333T

15HP, 1765RPM, 3PH, 60HZ, 254HP, 0944M, TEFC, F
Class - None
Division - Not Applicable

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11/3/2026 4:54:17 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 254HP |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 15.000 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 |
| | CSA EEV |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 36.200 A @ 230.0 V |
| | 38.000 A @ 208.0 V |
| | 18.100 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | X |
| **Type** | AC |
| **Mech. spec.** | 09G604 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGZ910 |
| **Layout** | 09LYG604 |
| **Eff. date** | 04-09-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#12 |
| **Proprietary** | False |
| **Created date** | 11-09-2012 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 18.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 12 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0944M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 25.72 IN |
| **Power Factor** | 83 |
| **Product Family** | Super-E Chemical Processing |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | P-Base |
| **Pulley Shaft Indicator** | P-Base Groove & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1765 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**

| NP1260 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VHECP2333T | | | | | | | |
| **SPEC.** | 09G604Z910 | | | | | | | |
| **HP** | 15 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 36.2/18.1 | | | | | | | |
| **RPM** | 1765 | | | | | | | |
| **FRAME** | 254HP | **HZ** | 60 | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | A | **CL** | F | |
| **NEMA-NOM-EFF** | 92.4 | **PF** | 83 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | | | | | | | |
| **DE** | 6311 | **ODE** | 6208 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |

**AC Induction Motor Performance Data**
Record # 40347
Typical performance - not guaranteed values

| **Winding:** 09WGZ910-R001 | **Type:** 0944M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 15 | **Full Load Torque** | 44.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 36.2/18.1 | **Breakdown Torque** | 153 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 69.5 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 86.5 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 127 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 7.56 A |
| **NEMA Nom. Eff.** | 92.4 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 0.59555 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 54°C |
| **S.F. Amps** | | | 20.8 | **Temp. Rise @ S.F. Load** | 67°C |
| | | | | **Locked-rotor Power Factor** | 33.1 |
| | | | | **Rotor inertia** | 1.92 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 69 | 79 | 83 | 85 | 87 | 84 |
| **Efficiency** | 88.2 | 92.2 | 92.7 | 92.4 | 91.5 | 90.4 | 91.9 |
| **Speed** | 1791.3 | 1783.1 | 1774 | 1765.2 | 1754.6 | 1743.1 | 1759 |
| **Line amperes** | 8.62 | 11 | 14.5 | 18.1 | 22.6 | 26.9 | 20.8 |

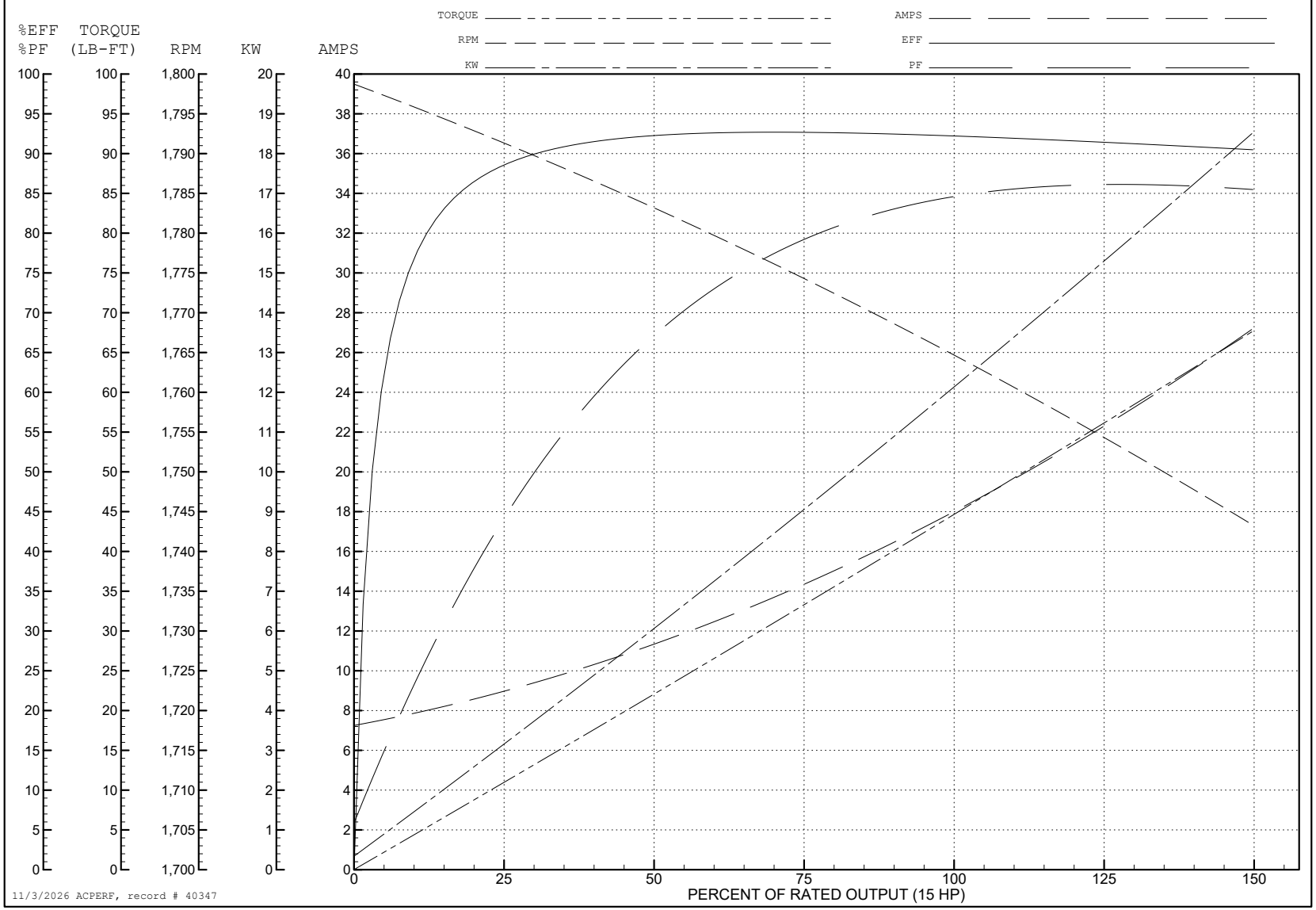
ABB Motors and Mechanical Inc.

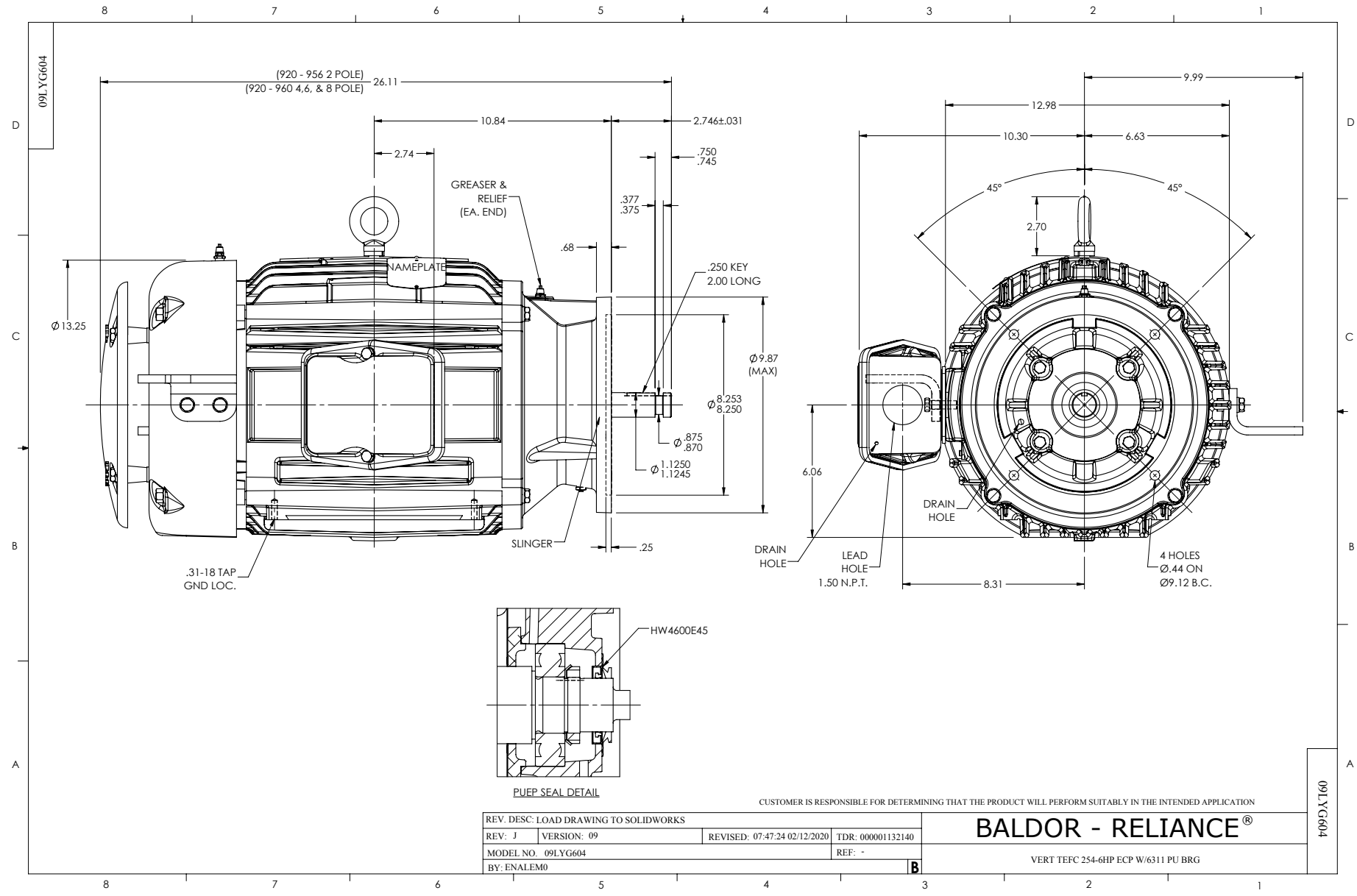
WINDING # 09WGZ910

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

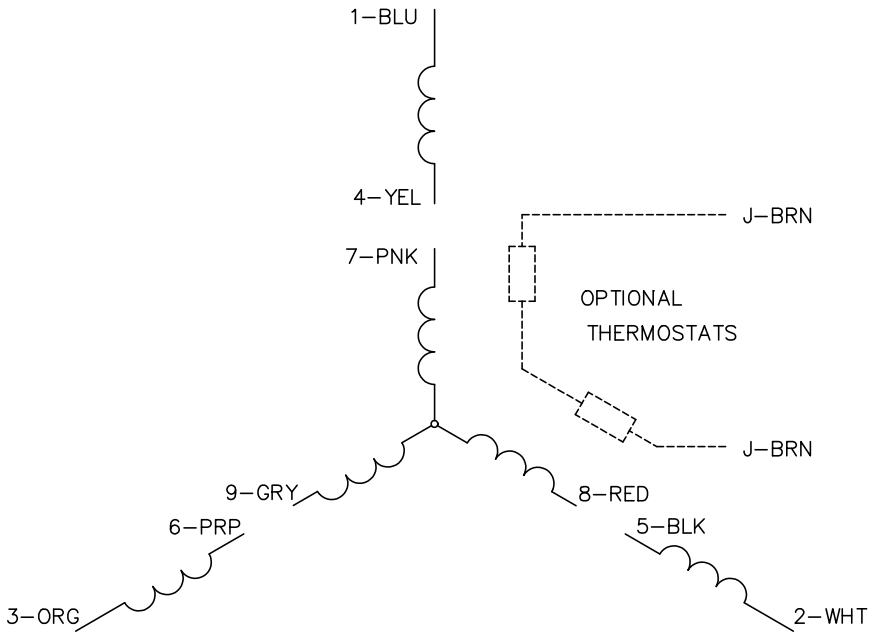
Typical performance - not guaranteed values.

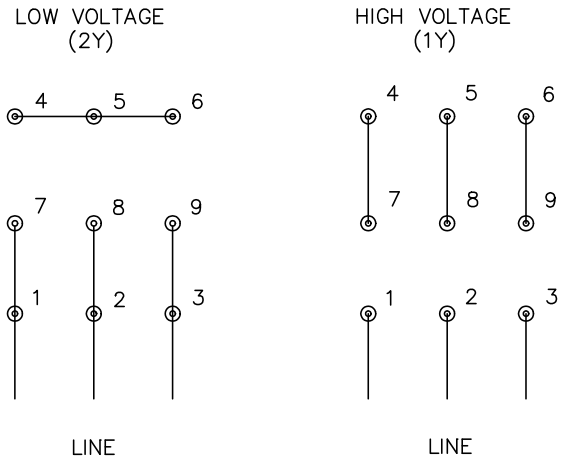
TORQUES(LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127




09LYG604
(920 - 956 2 POLE)
(920 - 960 4,6, & 8 POLE)
26.11
10.84
2.746±.031
2.74
.750
.745
GREASER &
RELIEF
(EA. END)
.377
.375
.68
NAMEPLATE
.250 KEY
2.00 LONG
Ø13.25
Ø9.87
(MAX)
Ø8.253
8.250
Ø.875
.870
Ø1.1250
1.1245
SLINGER
.25
.31-18 TAP
GND LOC.
9.99
12.98
10.30
6.63
45°
45°
2.70
6.06
DRAIN
HOLE
DRAIN
HOLE
LEAD
HOLE
1.50 N.P.T.
8.31
4 HOLES
Ø.44 ON
Ø9.12 B.C.
HW4600E45
PUEP SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: J
VERSION: 09
REVISED: 07:47:24 02/12/2020
TDR: 000001132140
MODEL NO. 09LYG604
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6HP ECP W/6311 PU BRG
09LYG604

CD0005




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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |