ABB BALDOR RELIANCE

# Customer information packet

## CEM3708T

5HP, 1165RPM, 3PH, 60HZ, 215TC, 3746M, TEFC, F1
Class - None
Division - Not Applicable

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11/13/2026 11:52:00 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215TC |
| **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** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| **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** | 15.600 A @ 208.0 V |
| | 15.600 A @ 230.0 V |
| | 7.800 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 7.8 a |

## Part Detail

| | |
|---|---|
| **Revision** | - |
| **Type** | AC |
| **Mech. spec.** | 37G814 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGZ714 |
| **Layout** | 37LYG814 |
| **Eff. date** | 11-24-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 11-05-2025 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3746M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 20.50 IN |
| **Power Factor** | 67 |
| **Product Family** | General Purpose |
| **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** | 1.375 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1165 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**

| NP3441LUA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3708T | | | | | | | | | | | |
| **SPEC** | 37G814Z714 | | | | | | | | | | | |
| **HP** | 5 | | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | | |
| **AMPS** | 15.6/7.8 | | | | | | | | | | | |
| **RPM** | 1165 | | | | | | | | | | | |
| **FRAME** | 215TC | | **HZ** | 60 | | | **PH** | 3 | | | | |
| **SF** | 1.15 | **CODE** | K | **DES** | A | **CLASS** | F | | | | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 67 | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | | | |
| **DE** | 6307 | | **ODE** | 6206 | | | | | | | | |
| **VPWM INVERTER READY** | | SFA 17.3/8.64 | | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 113577
Preliminary Data Sheet

| **Winding:** 37WGZ714-R001 | **Type:** 3746M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 22.45 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 15.6/7.8 | **Breakdown Torque** | 86.4 LB-FT |
| **R.P.M.** | | | 1165 | **Pull-up Torque** | 57.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 62.6 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | K | **Starting Current** | 59.4 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.66 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 67 | **Line-line Res. @ 25ºC** | 1.59 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 61°C |
| **S.F. Amps** | | | 17.3/8.64 | **Temp. Rise @ S.F. Load** | 74°C |
| | | | | **Locked-rotor Power Factor** | 22.7 |
| | | | | **Rotor inertia** | 1.14 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 29 | 47 | 59 | 67 | 71 | 74 | 69 |
| **Efficiency** | 83 | 88.6 | 89.7 | 89.5 | 88.5 | 87.2 | 88.9 |
| **Speed** | 1192 | 1184 | 1176 | 1166 | 1156 | 1144 | 1160 |
| **Line amperes** | 4.92 | 5.65 | 6.58 | 7.8 | 9.21 | 10.83 | 8.65 |

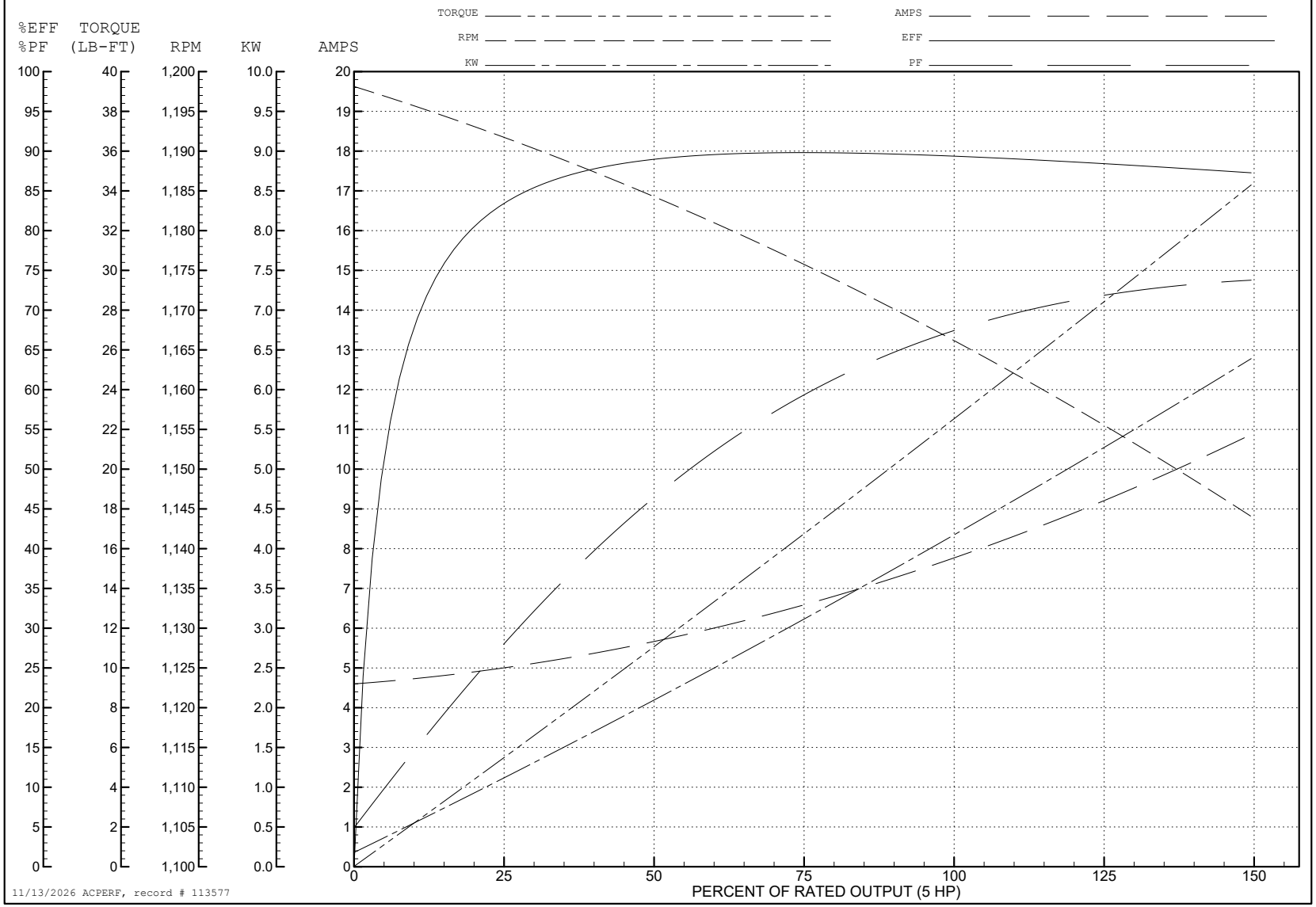
ABB Motors and Mechanical Inc.

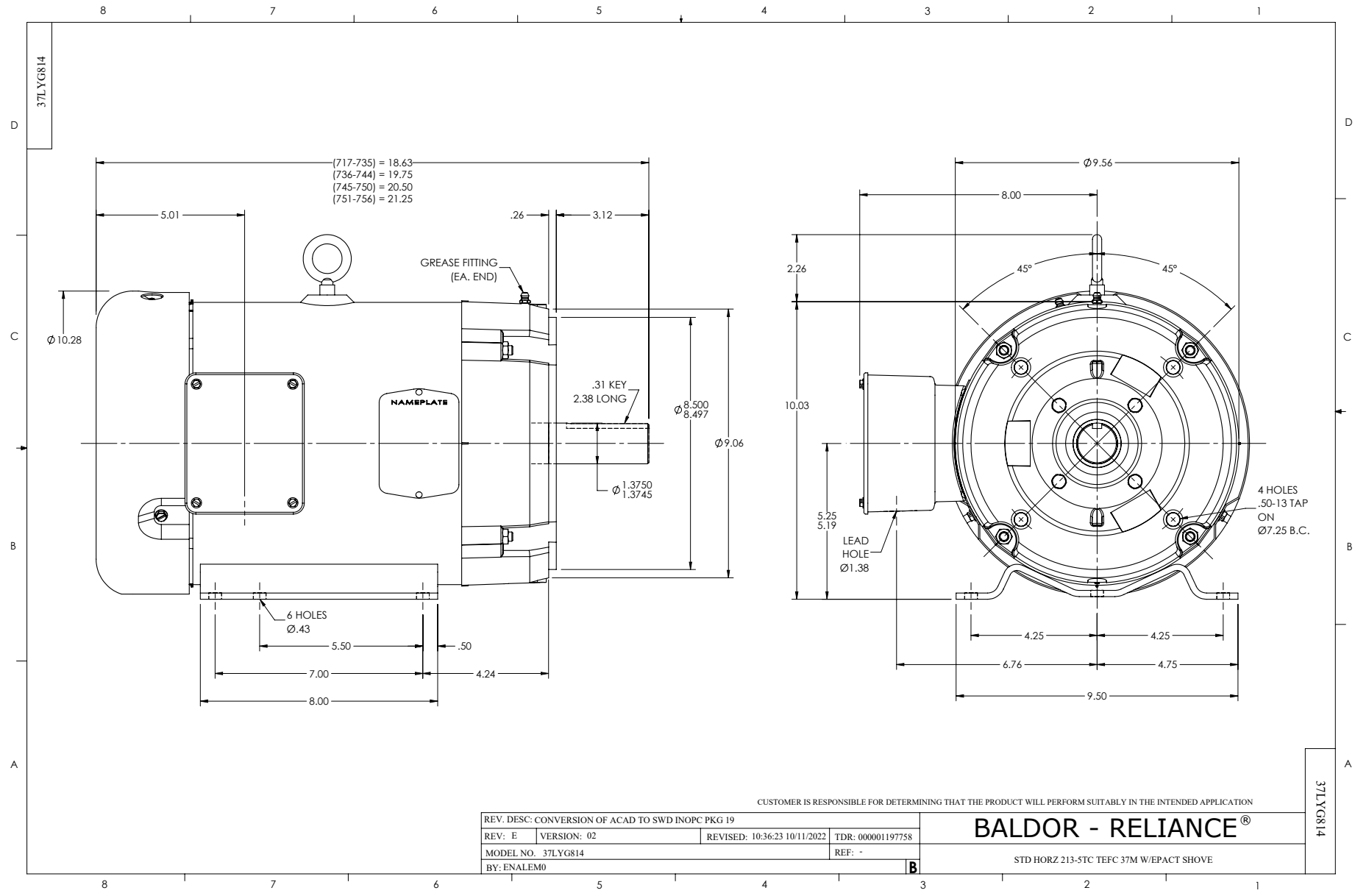
WINDING # 37WGZ714

5 HP 3 PH 60 HZ 1165 RPM 460 V 3746M

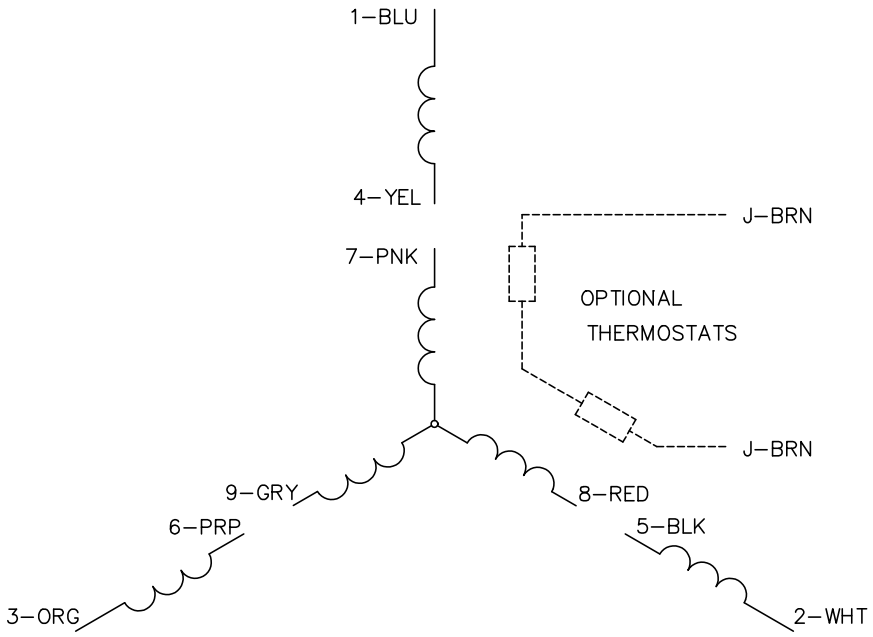
Typical performance - not guaranteed values.

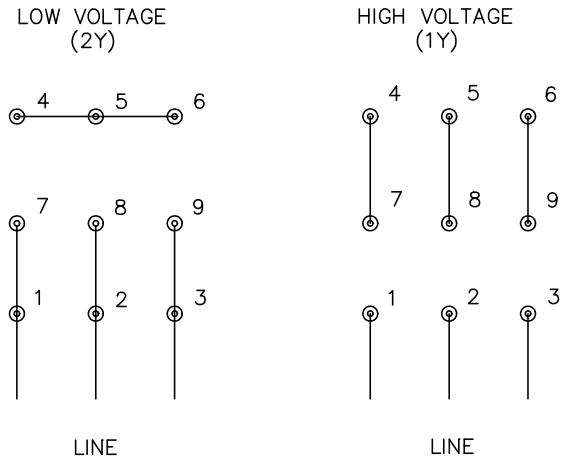
TORQUES(LB-FT): PO=86.4 PU=57.4 LR=62.6 LRA=59.4




37LYG814
(717-735) = 18.63
(736-744) = 19.75
(745-750) = 20.50
(751-756) = 21.25
5.01
.26
3.12
GREASE FITTING
(EA. END)
Ø 10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø 8.500
8.497
Ø9.06
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
4.24
8.00
Ø9.56
8.00
2.26
45°
45°
10.03
5.25
5.19
LEAD
HOLE
Ø1.38
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.76
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: E
VERSION: 02
REVISED: 10:36:23 10/11/2022
TDR: 000001197758
MODEL NO. 37LYG814
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC 37M W/EPACT SHOVE
37LYG814

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 |