ABB BALDOR RELIANCE

# Customer information packet

## CEM3313T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3742M, OPSB, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **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** | 10.000 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** | NEMA PREMIUM (OLD LOGO) |
| | 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** | 26.000 A @ 208.0 V |
| | 25.000 A @ 230.0 V |
| | 12.500 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | W |
| **Type** | AC |
| **Mech. spec.** | 37B102 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGT853 |
| **Layout** | 37LYB102 |
| **Eff. date** | 06-24-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 07-30-2010 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 12.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3742M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 18.19 IN |
| **Power Factor** | 82 |
| **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 Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No 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**

| NP3553LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3313T | | | | | | | | |
| **SPEC.** | 37B102T853G1 | | | | | | | | |
| **HP** | 10 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 25/12.5 | | | | | | | | |
| **RPM** | 1770 | | | | | | | | |
| **FRAME** | 215TC | **HZ** | 60 | | | **PH** | 3 | | |
| **SF** | 1.15 | **CODE** | H | **DES** | B | **CLASS** | F | | |
| **NEMA NOM. EFF** | 91.7 | **PF** | 82 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | OPSB | **SN** | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | | |
| **VPWM INVERTER READY** | SFA 27.72/13.86 | | | | | | | | |
| **CT30-60(2:1) VT3-60(20:1)** | | | | | | | | | |
| **USABLE AT** | 50HZ 7.5HP 190/380V 26.8/14.4A | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 53404
Typical performance - not guaranteed values

| **Winding:** 37WGT853-R026 | **Type:** 3742M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 10 | **Full Load Torque** | 29.7 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 25/12.5 | **Breakdown Torque** | 87.58 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 44.18 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 51.57 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | H | **Starting Current** | 86.72 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.91 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 1.18 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 34°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 43°C |
| | | | | **Locked-rotor Power Factor** | 37.9 |
| | | | | **Rotor inertia** | 1.03 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 48 | 70 | 80 | 84 | 86 | 86 | 83 |
| **Efficiency** | 87.7 | 91.8 | 92.2 | 91.7 | 90.8 | 89.5 | 91.4 |
| **Speed** | 1793 | 1785 | 1777 | 1769 | 1759 | 1749 | 1763 |
| **Line amperes** | 5.6 | 7.31 | 9.53 | 12.15 | 15 | 18.24 | 14.2 |

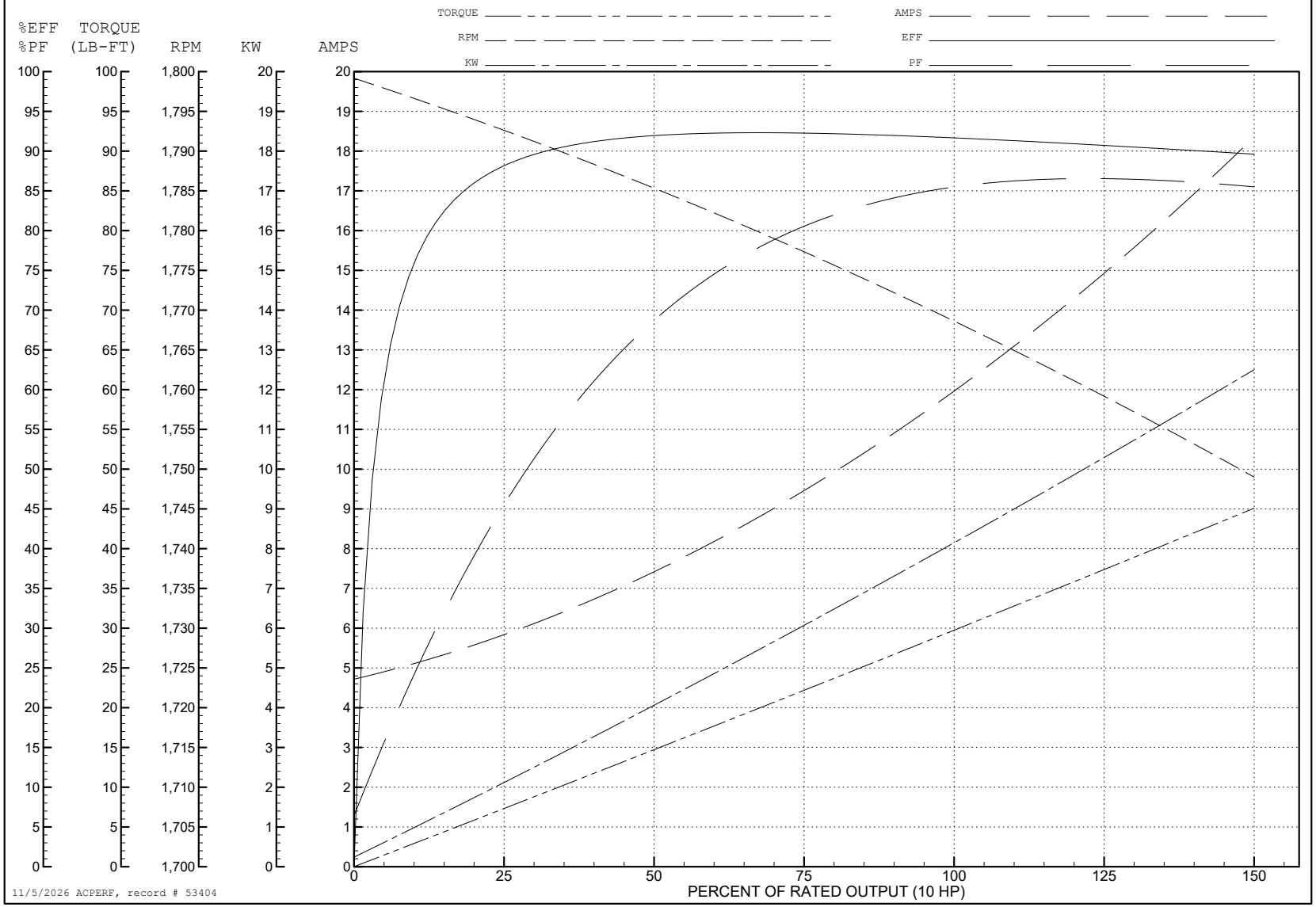
ABB Motors and Mechanical Inc.

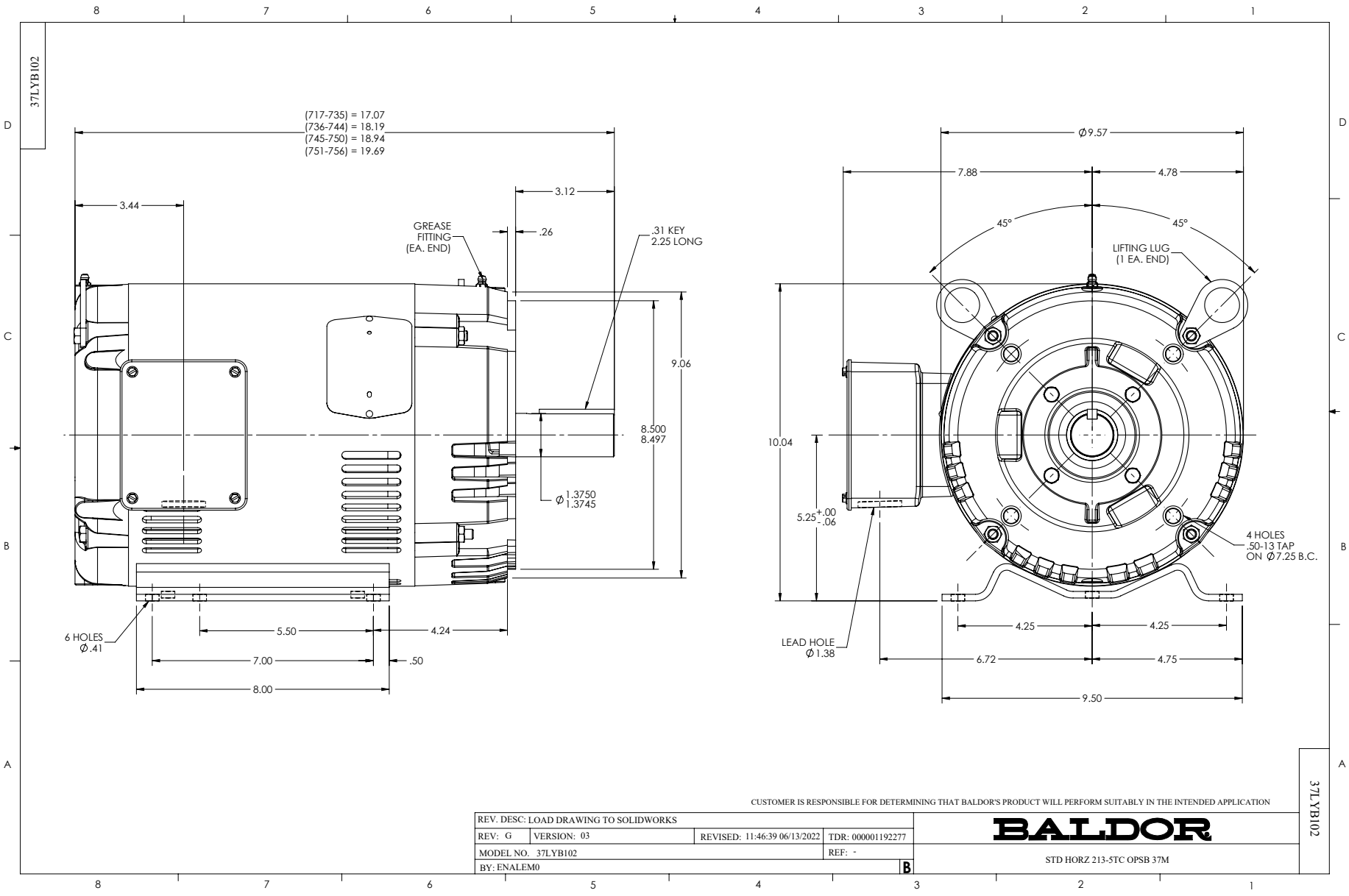
WINDING # 37WGT853

10 HP 3 PH 60 HZ 1770 RPM 460 V 3742M

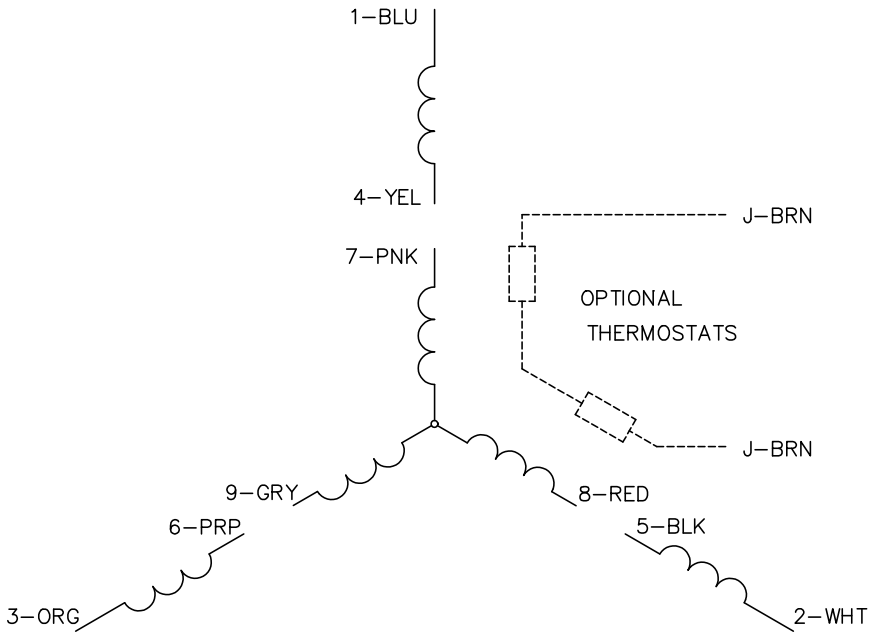
Typical performance - not guaranteed values.

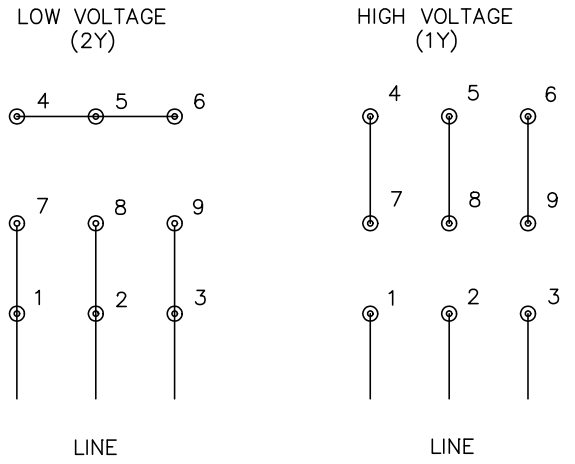
TORQUES(LB-FT): PO=87.58 PU=44.18 LR=51.57 LRA=86.72




37LYB102
(717-735) = 17.07
(736-744) = 18.19
(745-750) = 18.94
(751-756) = 19.69
3.44
3.12
.26
GREASE FITTING (EA. END)
.31 KEY 2.25 LONG
9.06
8.500
8.497
Ø1.3750
Ø1.3745
6 HOLES Ø.41
5.50
4.24
7.00
.50
8.00
Ø9.57
7.88
4.78
45°
45°
LIFTING LUG (1 EA. END)
10.04
5.25 +.00 -.06
4 HOLES .50-13 TAP ON Ø7.25 B.C.
LEAD HOLE Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: G
VERSION: 03
REVISED: 11:46:39 06/13/2022
TDR: 000001192277
MODEL NO. 37LYB102
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ 213-5TC OPSB 37M
37LYB102

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 |