ABB BALDOR RELIANCE

# Customer information packet

## CEWDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3738M, TEFC
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213TC |
| **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** | 7.500 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** | CSA |
| | CSA EEV |
| | 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** | 9.500 A @ 460.0 V |
| | 20.000 A @ 208.0 V |
| | 19.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | 37H887 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGL864 |
| **Layout** | 37LYH887 |
| **Eff. date** | 02-14-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 02-02-2021 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **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** | 3738M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 19.78 IN |
| **Power Factor** | 80 |
| **Product Family** | Wash Down |
| **Pulley End Bearing Type** | Sealed Bearing |
| **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** | 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**

| | NP1669L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEWDM3710T | | | | | | | |
| **SPEC.** | 37H887L864G1 | | | | | | | |
| **HP** | 7.5 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 19/9.5 | | | | | | | |
| **RPM** | 1770 | | | | | | | |
| **FRAME** | 213TC | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | A | **CLASS** | F | |
| **NEMA-NOM-EFF** | 91.7 | **PF** | 80 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| **BLANK** | 20:1CT, 20:1VT | | | | | | | |

**AC Induction Motor Performance Data**
Record # 85467
Preliminary Data Sheet

| **Winding:** 37WGL864-R001 | **Type:** 3738M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 |
| **Volts** | | | 230/460 |
| **Full Load Amps** | | | 19.0/9.5 |
| **R.P.M.** | | | 1770 |
| **Hz** | 60 | **Phase** | 3 |
| **NEMA Design Code** | A | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 80 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | 21.4/10.7 |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 22.2 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 69.8 LB-FT |
| **Pull-up Torque** | 31.5 LB-FT |
| **Locked-rotor Torque** | 41 LB-FT |
| **Starting Current** | 70.7 A |
| **No-load Current** | 4.32 A |
| **Line-line Res. @ 25ºC** | 1.48 Ω |
| **Temp. Rise @ Rated Load** | 64°C |
| **Temp. Rise @ S.F. Load** | 84°C |
| **Locked-rotor Power Factor** | 41.9 |
| **Rotor inertia** | 0.934 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 75 | 80 | 83 | 84 | 83 |
| **Efficiency** | 87.1 | 91.4 | 92 | 91.7 | 90.7 | 89.6 | 90.7 |
| **Speed** | 1793 | 1786 | 1778 | 1770 | 1760 | 1750 | 1761 |
| **Line amperes** | 4.83 | 6.03 | 7.64 | 9.5 | 11.6 | 13.9 | 10.7 |

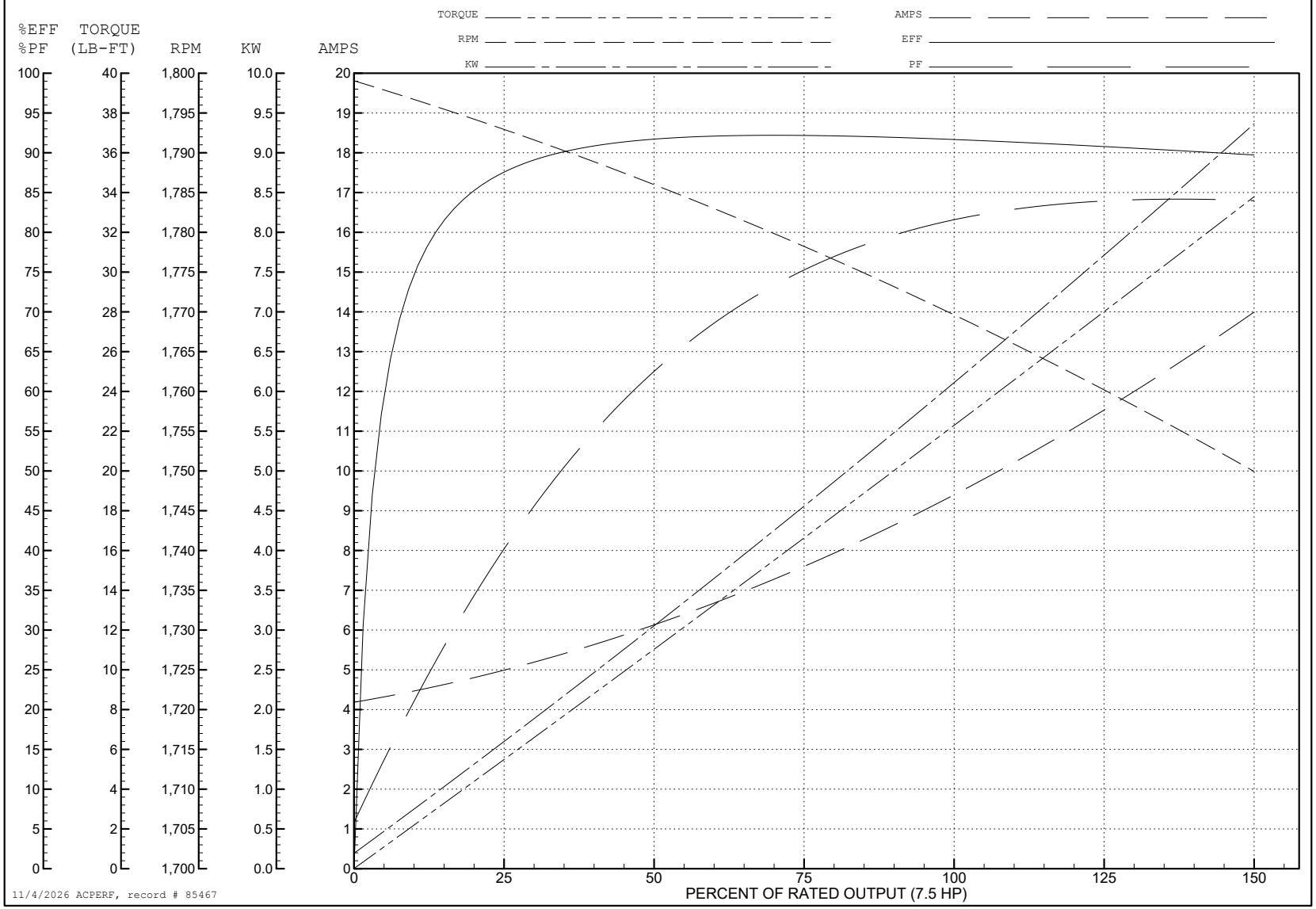
ABB Motors and Mechanical Inc.

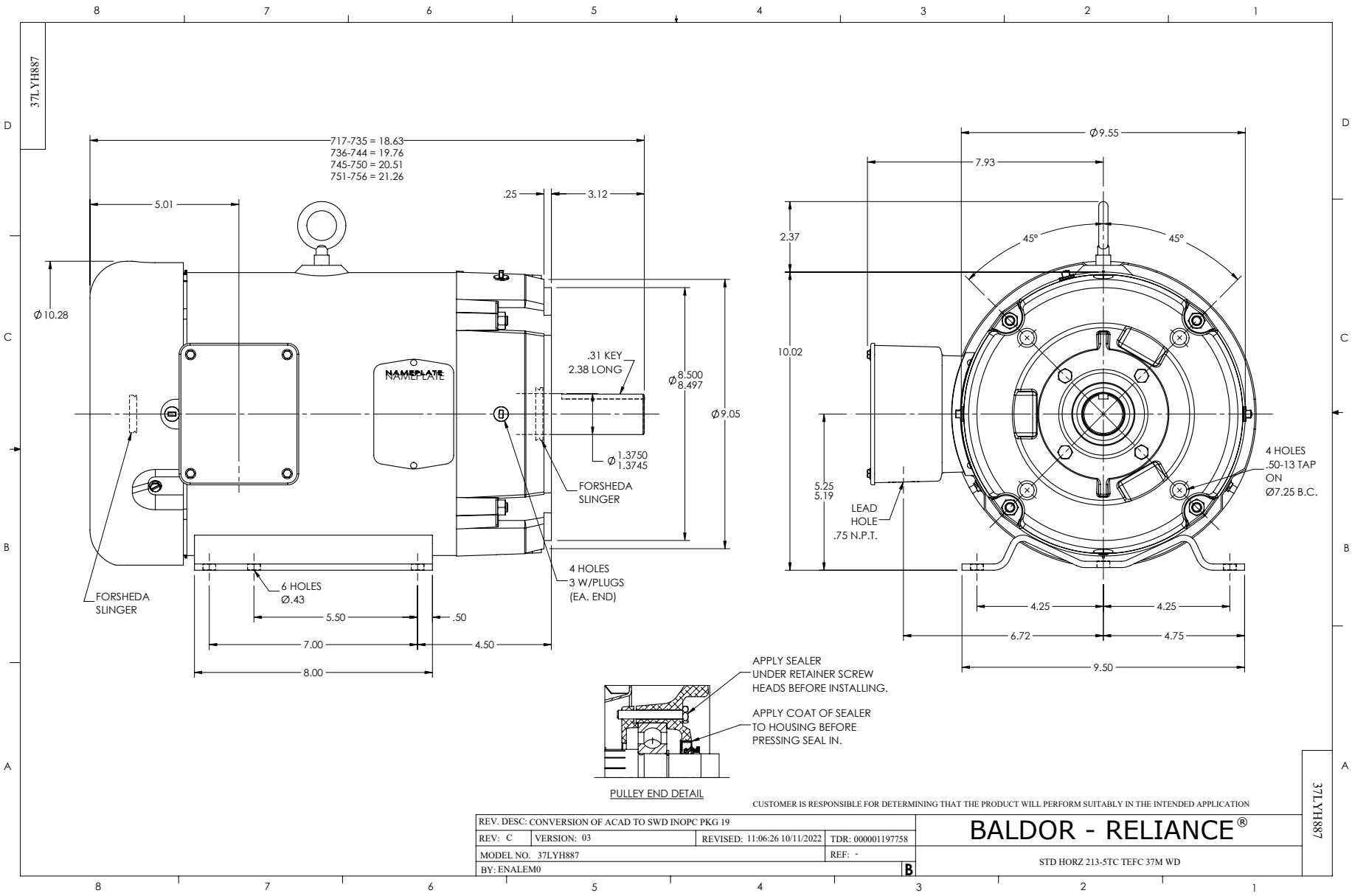
WINDING # 37WGL864

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

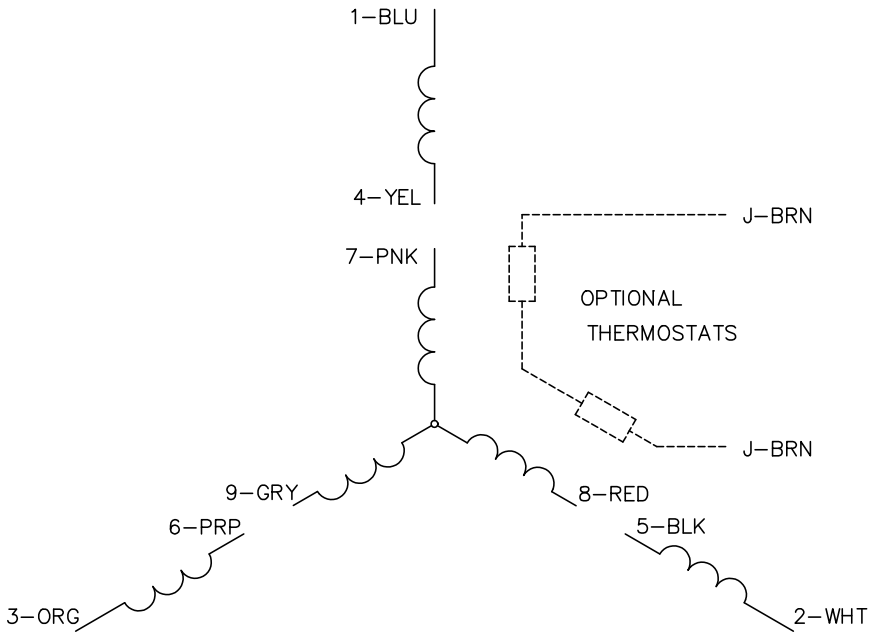
Typical performance - not guaranteed values.

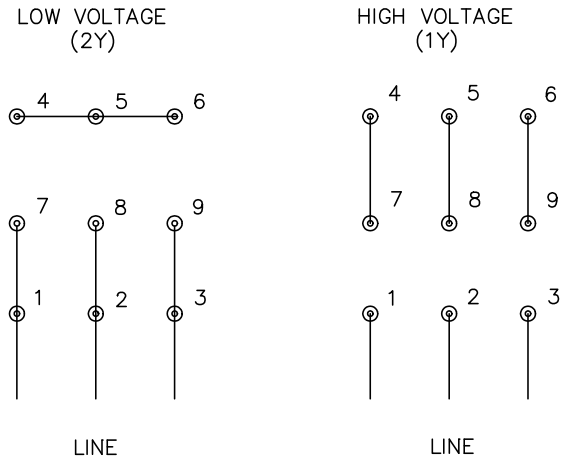
TORQUES(LB-FT): PO=69.8 PU=31.5 LR=41 LRA=70.7




37LYH887
717-735 = 18.63
736-744 = 19.76
745-750 = 20.51
751-756 = 21.26
5.01
.25
3.12
Ø10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø 1.3750
1.3745
FORSHEDA
SLINGER
4 HOLES
3 W/PLUGS
(EA. END)
FORSHEDA
SLINGER
6 HOLES
Ø.43
5.50
.50
7.00
4.50
8.00
Ø9.55
7.93
2.37
45°
45°
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.72
4.75
9.50
APPLY SEALER
UNDER RETAINER SCREW
HEADS BEFORE INSTALLING.
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING SEAL IN.
PULLEY END DETAIL
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: C
VERSION: 03
REVISED: 11:06:26 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH887
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC 37M WD
37LYH887

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 |