ABB BALDOR RELIANCE

# Customer information packet

## EJMM3311T-G

7.5HP, 1770RPM, 3PH, 60HZ, 213JM, 3734M, OPSB
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 213JM |
| **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 EEV |
| | NEMA PREMIUM |
| | UR |
| | CSA |
| **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** | 19.600 A @ 230.0 V |
| | 9.800 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 37M556 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGL863 |
| **Layout** | 37LYM556 |
| **Eff. date** | 07-27-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 01-29-2021 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 9.8 a |
| **Insulation Class** | H |
| **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** | 3734M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 18.19 IN |
| **Power Factor** | 79 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | Included |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | 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**

| NP3553LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJMM3311T-G | | | | | | | | |
| **SPEC.** | 37M556L863G1 | | | | | | | | |
| **HP** | 7.5 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 19.6/9.8 | | | | | | | | |
| **RPM** | 1770 | | | | | | | | |
| **FRAME** | 213JM | **HZ** | 60 | | **PH** | 3 | | | |
| **SF** | 1.15 | **CODE** | J | **DES** | A | **CLASS** | H | | |
| **NEMA NOM. EFF** | 91 | **PF** | 79 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | OPSB | **SN** | | | | | | | |
| **DE** | 6309 | **ODE** | 6206 | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT30-60(2:1) VT3-60(20:1)** | | | | | | | | | |
| **USABLE AT** | 50HZ 7.5HP 190/380V 23.2/11.6A | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 86443
Preliminary Data Sheet

| **Winding:** 37WGL863-R004 | **Type:** 3734M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 22.2 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 19.6/9.8 | **Breakdown Torque** | 74.8 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 37.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 45.4 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 72 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.87 A |
| **NEMA Nom. Eff.** | 91 | **Power Factor** | 79 | **Line-line Res. @ 25ºC** | 1.67 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 35°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 47°C |
| | | | | **Locked-rotor Power Factor** | 45.8 |
| | | | | **Rotor inertia** | 0.836 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 39 | 60 | 73 | 79 | 82 | 83 | 81 |
| **Efficiency** | 85 | 90.1 | 91.1 | 90.9 | 90.1 | 89 | 90.3 |
| **Speed** | 1793 | 1786 | 1779 | 1772 | 1764 | 1755 | 1766 |
| **Line amperes** | 5.34 | 6.47 | 7.99 | 9.87 | 11.9 | 14.2 | 11.1 |

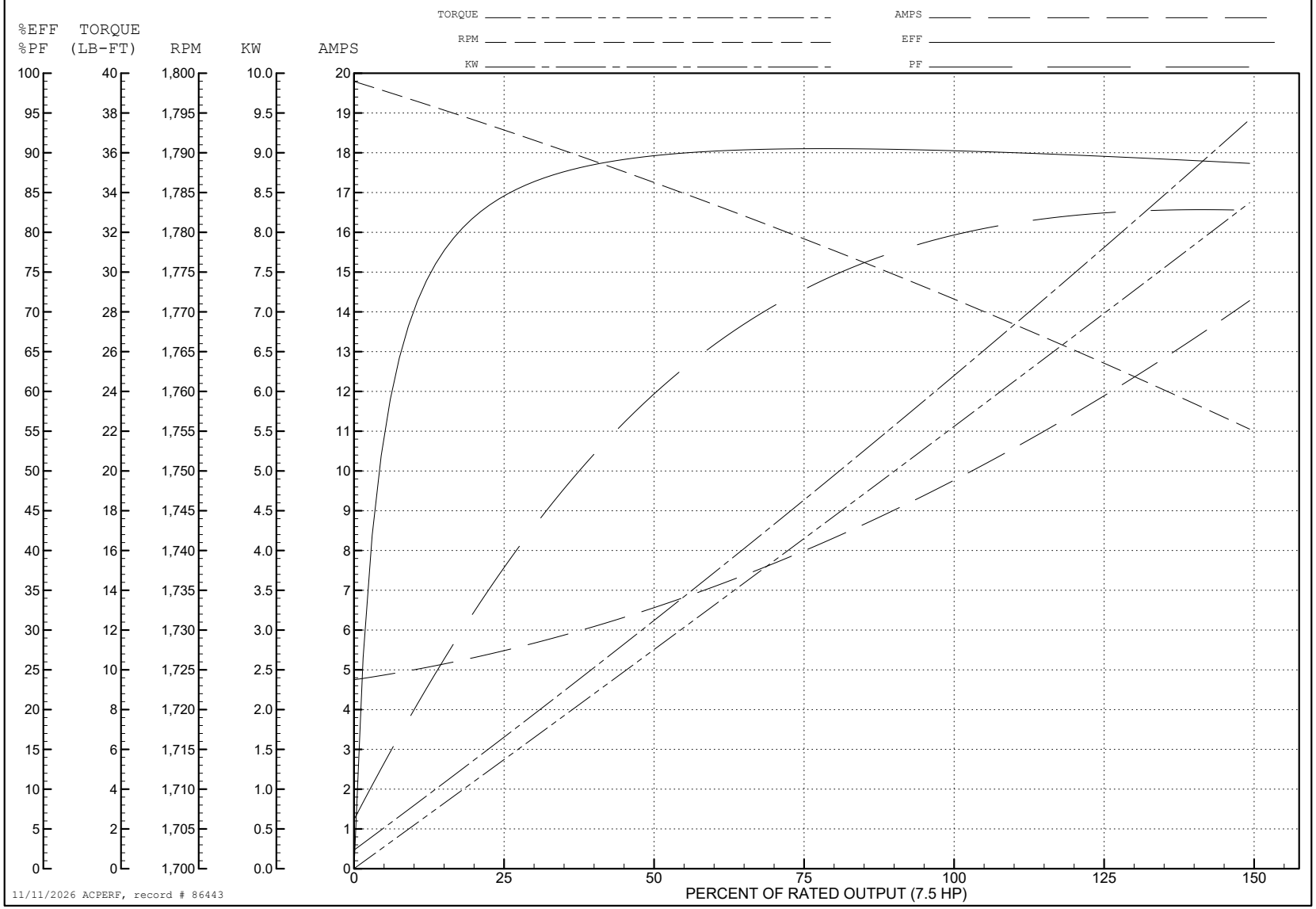
ABB Motors and Mechanical Inc.

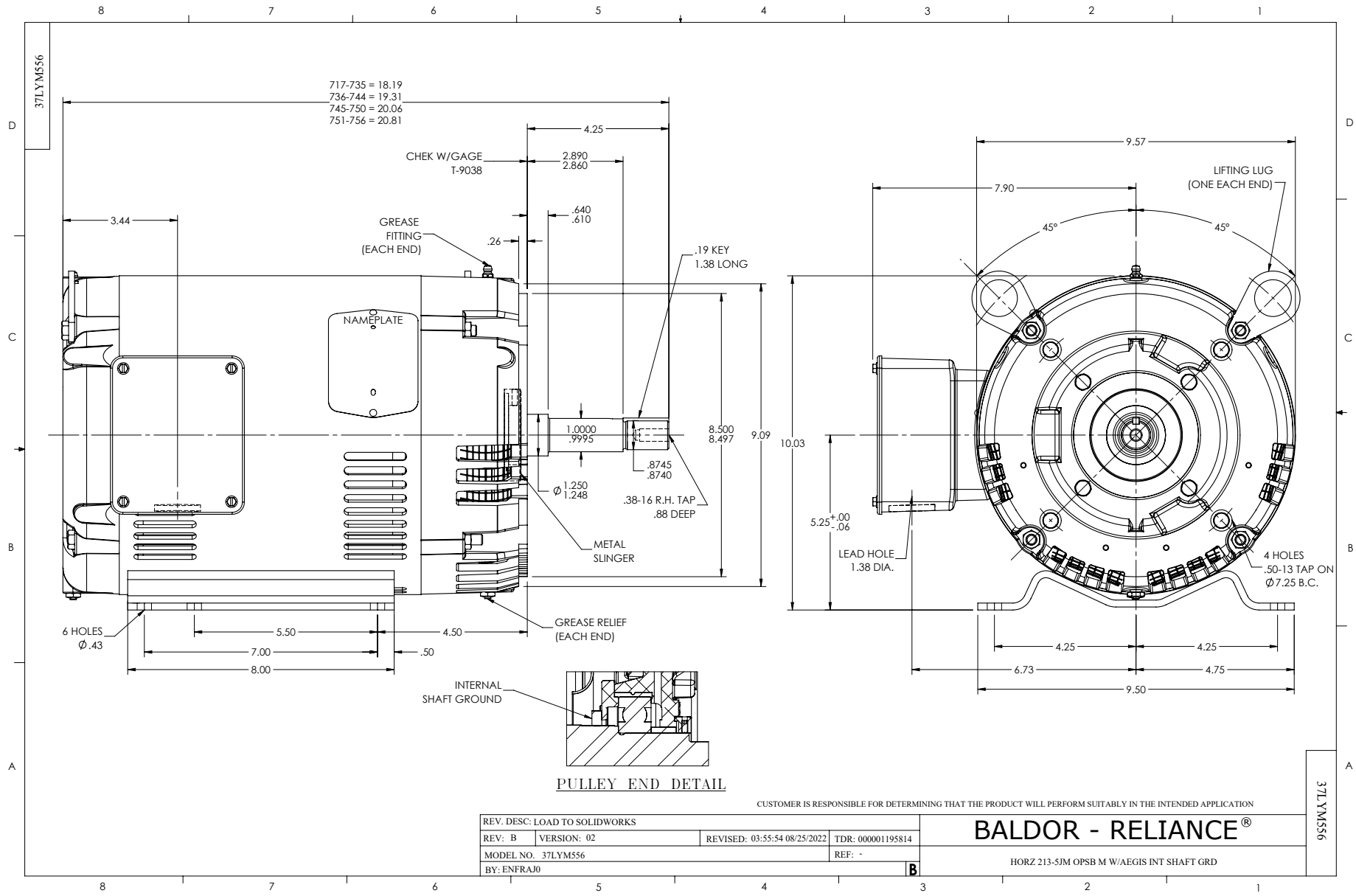
WINDING # 37WGL863

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3734M

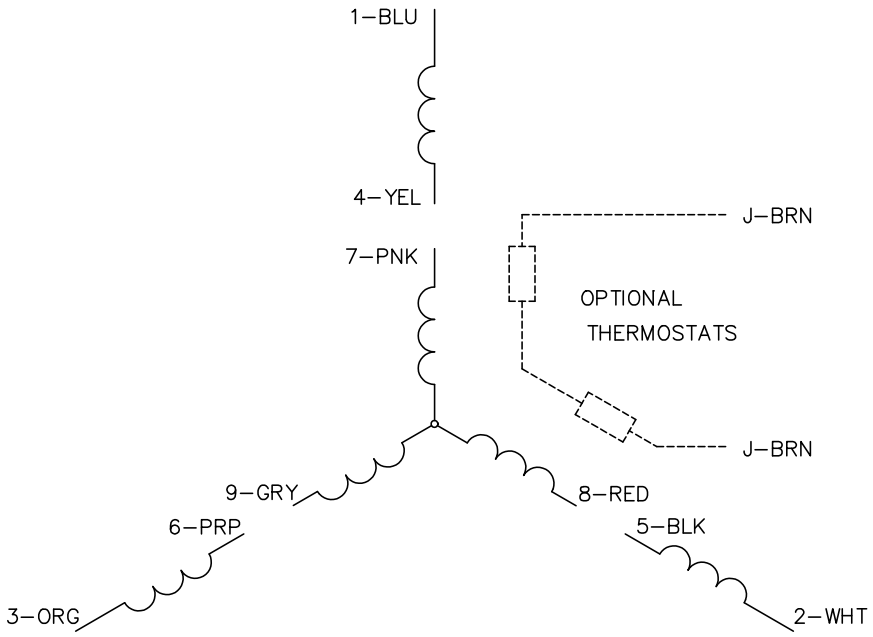
Typical performance - not guaranteed values.

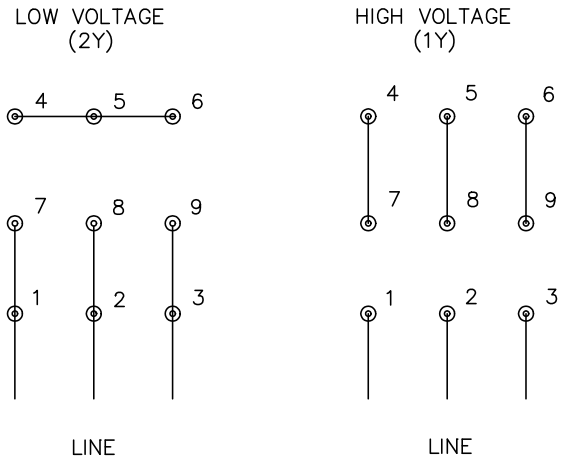
TORQUES(LB-FT): PO=74.8 PU=37.1 LR=45.4 LRA=72




37LYM556
717-735 = 18.19
736-744 = 19.31
745-750 = 20.06
751-756 = 20.81
4.25
CHEK W/GAGE
T-9038
2.890
2.860
.640
.610
3.44
GREASE
FITTING
(EACH END)
.26
.19 KEY
1.38 LONG
NAMEPLATE
1.0000
.9995
8.500
8.497
9.09
.8745
.8740
Ø 1.250
1.248
.38-16 R.H. TAP
.88 DEEP
METAL
SLINGER
6 HOLES
Ø .43
5.50
4.50
7.00
.50
8.00
GREASE RELIEF
(EACH END)
INTERNAL
SHAFT GROUND
9.57
7.90
LIFTING LUG
(ONE EACH END)
45°
45°
10.03
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4 HOLES
.50-13 TAP ON
Ø 7.25 B.C.
4.25
4.25
6.73
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 03:55:54 08/25/2022
TDR: 000001195814
MODEL NO. 37LYM556
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ 213-5JM OPSB M W/AEGIS INT SHAFT GRD
37LYM556

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 |