ABB BALDOR RELIANCE

# Customer information packet

## VEDM3615T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3642M, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 3:30:23 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184TC |
| **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** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | 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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 6.700 A @ 460.0 V |
| | 13.900 A @ 208.0 V |
| | 13.400 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | 36Q733 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGS268 |
| **Layout** | 36LYQ733 |
| **Eff. date** | 06-24-2021 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 04-21-2016 |

| | |
|---|---|
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3642M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 18.10 IN |
| **Power Factor** | 78 |
| **Product Family** | Dirty Duty Plus |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **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** | No Slinger |
| **Speed** | 1750 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**

| NP3504 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT NO** | VEDM3615T | | | | | | | |
| **SPEC.** | 36Q733S268G1 | | | **ENCL** | TEFC | | | |
| **FRAME** | 184TC | **HP** | 5 | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **FLA** | 13.4/6.7 | | | **I.P.** | 56 | | | |
| **RPM** | 1750 | **RPM MAX** | 2700 | | | | | |
| **HZ** | 60 | **PH** | 3 | **CLASS** | F | | | |
| **SER.F.** | 1.15 | **DES** | B | **CC** | 010A | | | |
| **NEMA-NOM-EFF** | 89.5 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **DE BRG** | 6206 | **ODE BRG** | 6205 | | | | | |
| **GREASE** | POLYREX EM | | | | | | | |
| **C HP FR** | 60 | **C HP TO** | 90 | | | | | |
| **CT HZ FROM** | 6 | **CT HZ TO** | 60 | **VT HZ FROM** | 6 | **VT HZ TO** | 60 | |
| **SER.NO** | | | | | | | | |
| | 50C AT 1.0 SF | | | | | | | |

**AC Induction Motor Performance Data**
Record # 55772
Typical performance - not guaranteed values

| **Winding:** 36WGS268-R085 | **Type:** 3642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 14.9 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13.4/6.7 | **Breakdown Torque** | 52.2 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 31.5 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 34.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 49.1 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.24 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 78 | **Line-line Res. @ 25ºC** | 2.31 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 71°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 87°C |
| | | | | **Locked-rotor Power Factor** | 39.8 |
| | | | | **Rotor inertia** | 0.391 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 39 | 60 | 72 | 78 | 83 | 83 | 81 |
| **Efficiency** | 84.9 | 89.7 | 90.3 | 89.8 | 88.8 | 87 | 89.2 |
| **Speed** | 1789.1 | 1776.2 | 1762.3 | 1749.7 | 1732.5 | 1714.3 | 1739 |
| **Line amperes** | 3.55 | 4.31 | 5.43 | 6.65 | 7.94 | 9.64 | 7.42 |

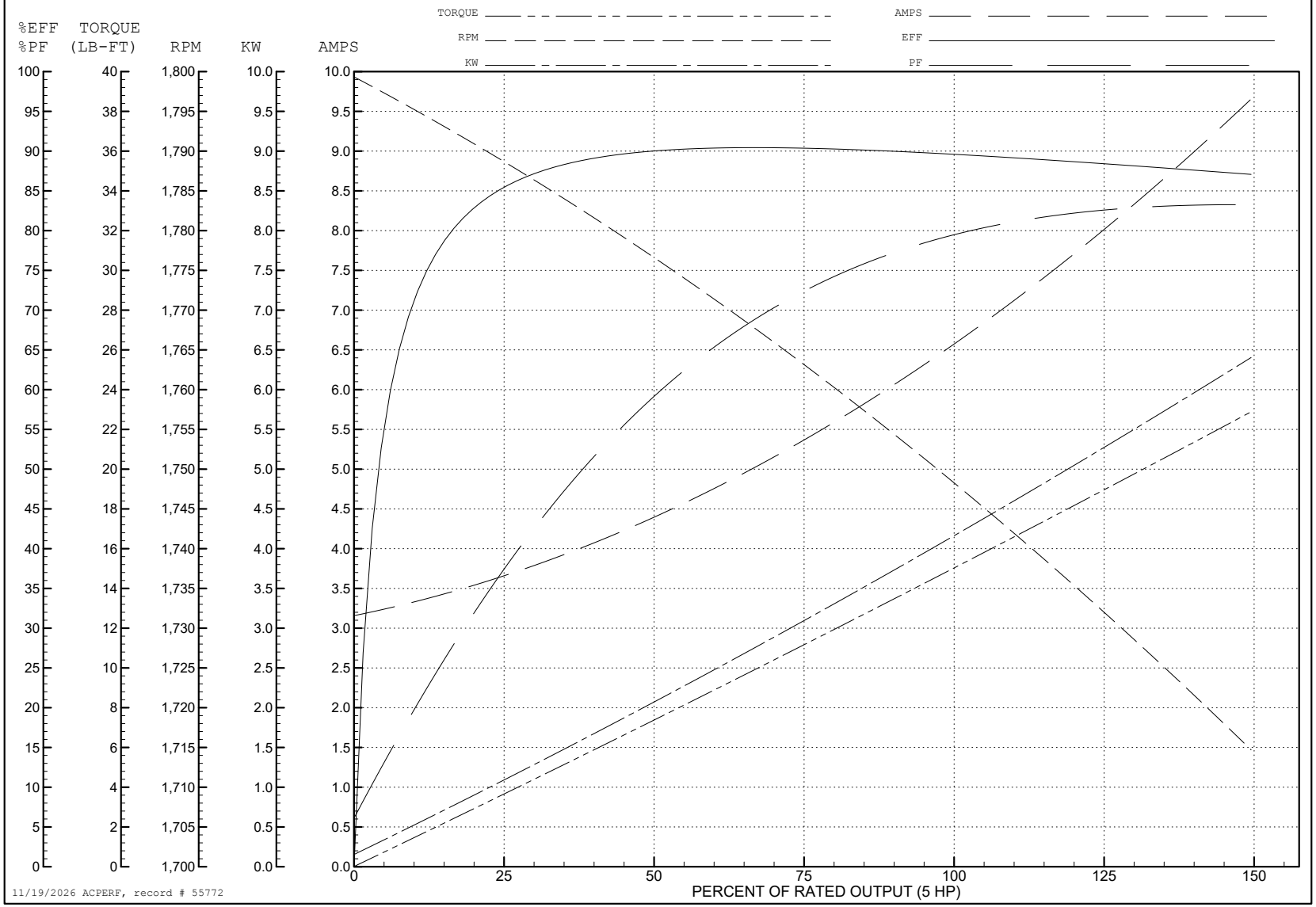
ABB Motors and Mechanical Inc.

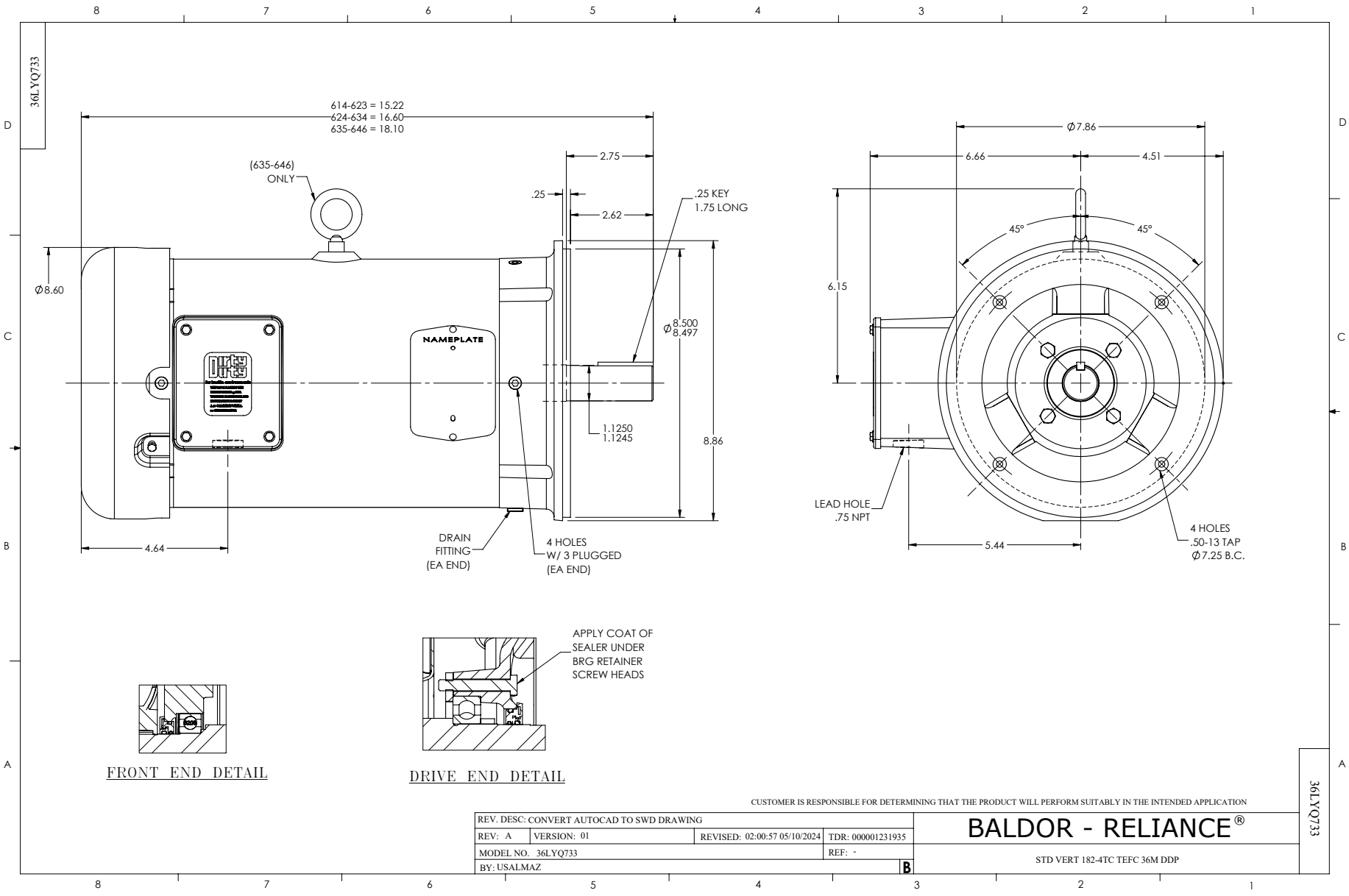
WINDING # 36WGS268

5 HP 3 PH 60 HZ 1750 RPM 460 V 3642M

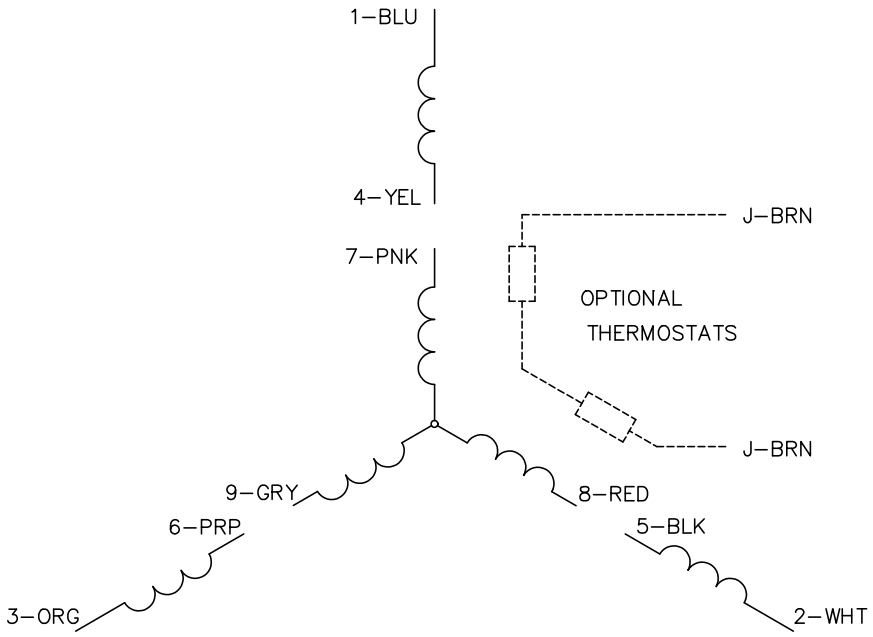
Typical performance - not guaranteed values.

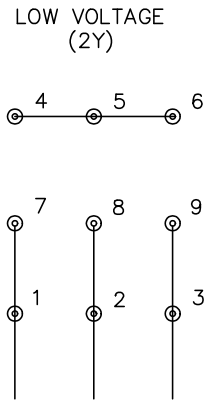
TORQUES(LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1

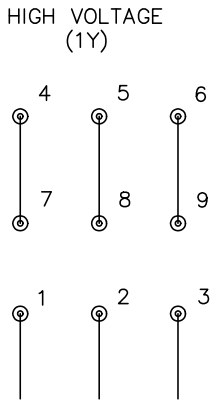



36LYQ733
614-623 = 15.22
624-634 = 16.60
635-646 = 18.10
(635-646) ONLY
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø8.60
NAMEPLATE
Ø8.500
8.497
1.1250
1.1245
8.86
4.64
DRAIN FITTING (EA END)
4 HOLES W/ 3 PLUGGED (EA END)
Ø7.86
6.66
4.51
45°
45°
6.15
LEAD HOLE .75 NPT
5.44
4 HOLES .50-13 TAP Ø7.25 B.C.
APPLY COAT OF SEALER UNDER BRG RETAINER SCREW HEADS
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 02:00:57 05/10/2024
TDR: 000001231935
MODEL NO. 36LYQ733
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC 36M DDP
36LYQ733

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 |