ABB BALDOR RELIANCE

# Customer information packet

## VL3515

2HP, 3450RPM, 1PH, 60HZ, 56C, 3535L, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | 2.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| **Agency Approvals** | C UR US |
| **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 |
| **Current @ Voltage** | 11.500 A @ 230.0 V |
| | 12.000 A @ 208.0 V |
| | 23.000 A @ 115.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 74.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | BE |
| **Type** | AC |
| **Mech. spec.** | 35C013 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WG0506 |
| **Layout** | 35LYC013 |
| **Eff. date** | 01-13-2026 |
| **CD Diagram** | CD0001 |
| **Poles** | 02 |
| **Leads** | 4#14 A PH,2#18 B PH |
| **Proprietary** | False |
| **Created date** | 06-21-2007 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 11.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 4 @ 14 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3535L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.12 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** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 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**

| NP1256L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VL3515 | | | | | | | | | | |
| **SPEC.** | 35C13-506 | | | | | | | | | | |
| **HP** | 2 | | | | | | | | | | |
| **VOLTS** | 115/208-230 | | | | | | | | | | |
| **AMP** | 23/12-11.5 | | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | | |
| **FRAME** | 56C | | **HZ** | 60 | | | **PH** | 1 | | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | L | **CLASS** | F | | | | |
| **NEMA-NOM-EFF** | 74 | **PF** | 82 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6205 | | **ODE** | 6203 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 8075
Typical performance - not guaranteed values

| **Winding:** 35WG0506-R007 | **Type:** 3535L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 3 LB-FT |
| **Volts** | | | 115/208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 23/12-11.5 | **Breakdown Torque** | 9 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 6 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 7.5 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | K | **Starting Current** | 78 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 6 A |
| **NEMA Nom. Eff.** | 74 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 0.864 Ω A Ph<br>1.26 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 82°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 91°C |

**Load Characteristics 230 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 50 | 65 | 75 | 81 | 85 | 87 | 83 |
| **Efficiency** | 49.1 | 64.2 | 70.5 | 73.4 | 74.3 | 74.1 | 73.9 |
| **Speed** | 3569 | 3548 | 3524 | 3499 | 3471 | 3438 | 3482 |
| **Line amperes** | 6.65 | 7.75 | 9.2 | 10.9 | 12.9 | 15.1 | 12.1 |

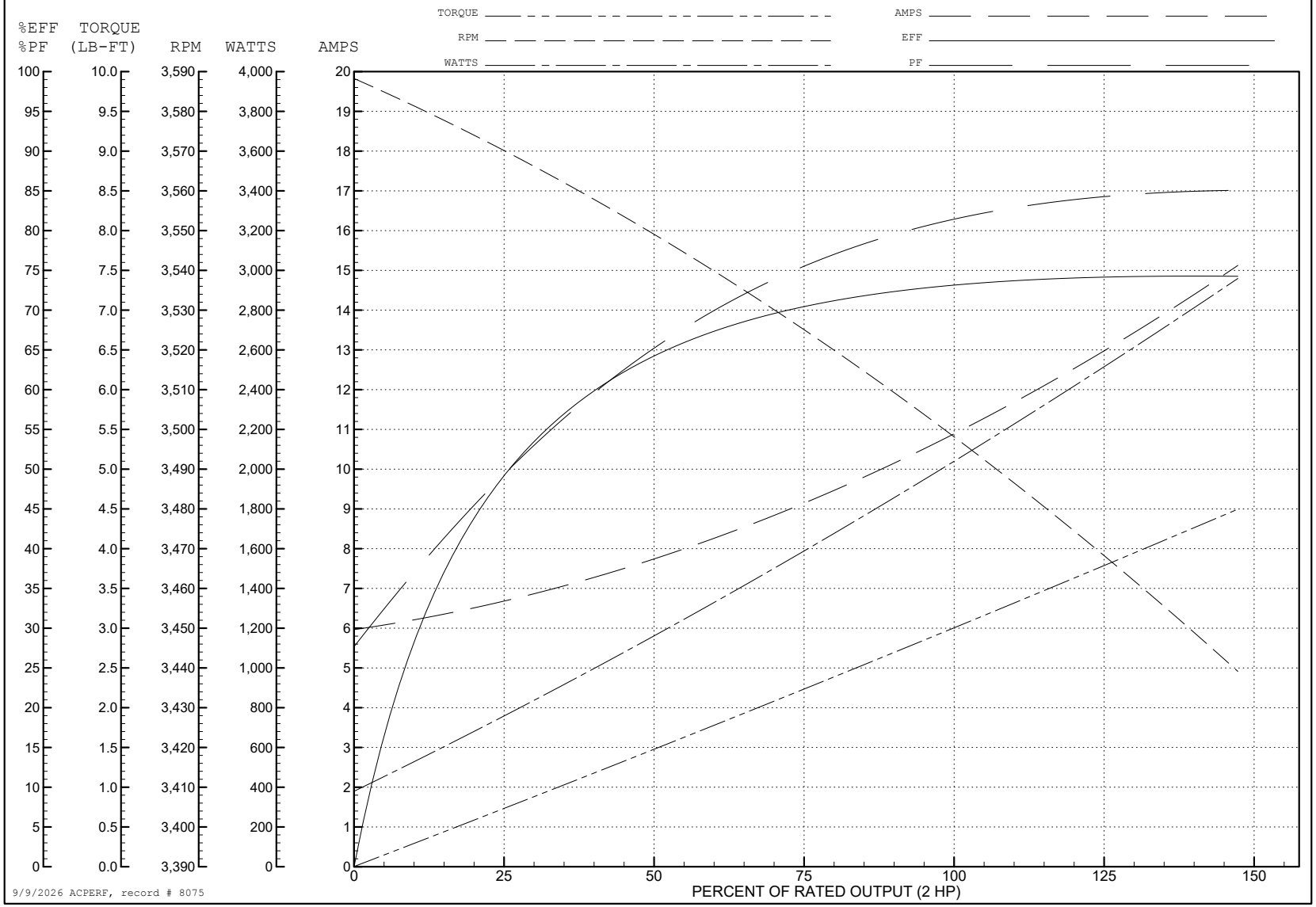
ABB Motors and Mechanical Inc.

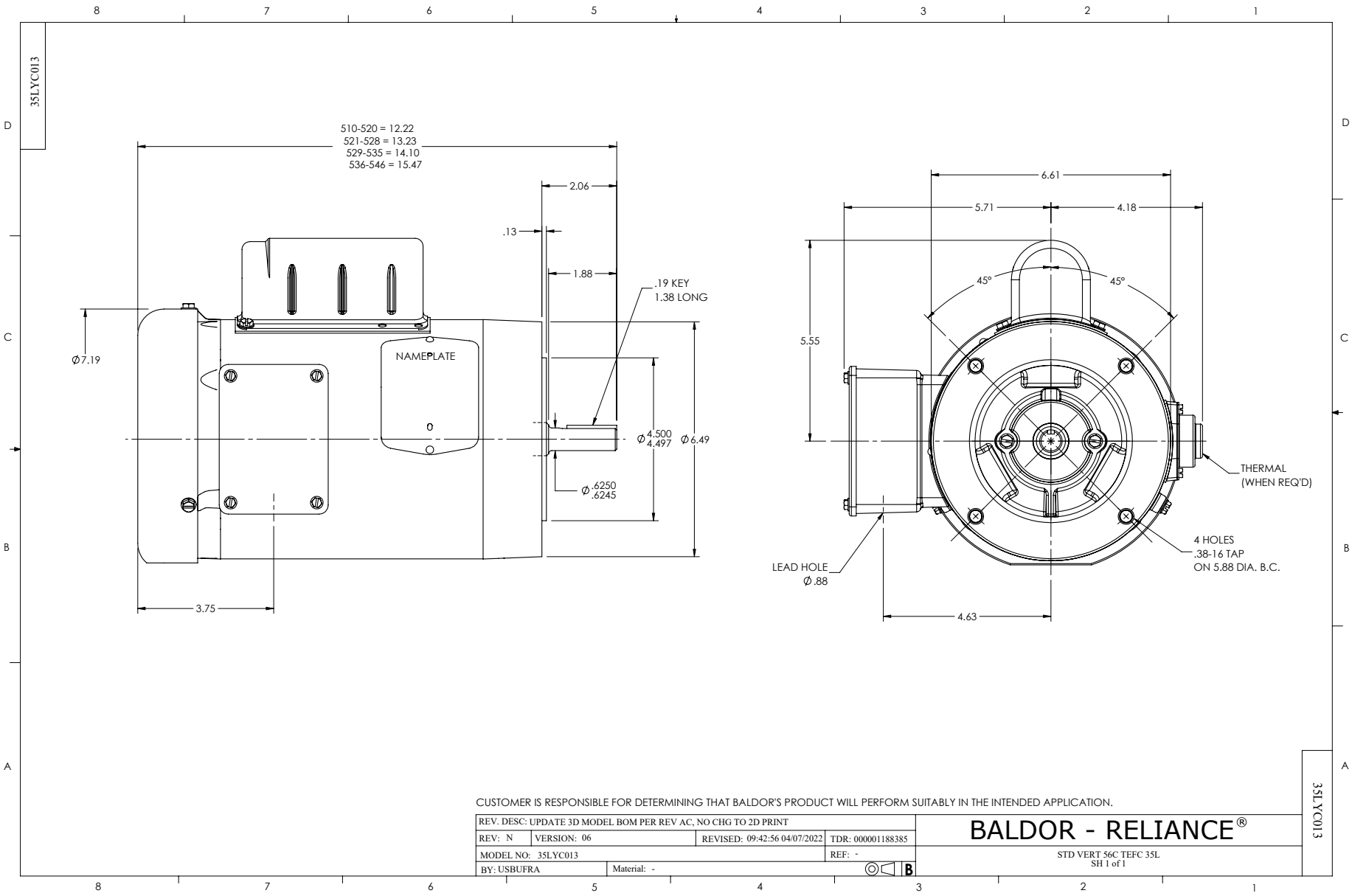
WINDING # 35WG0506

2 HP 1 PH 60 HZ 3450 RPM 230 V 3535L

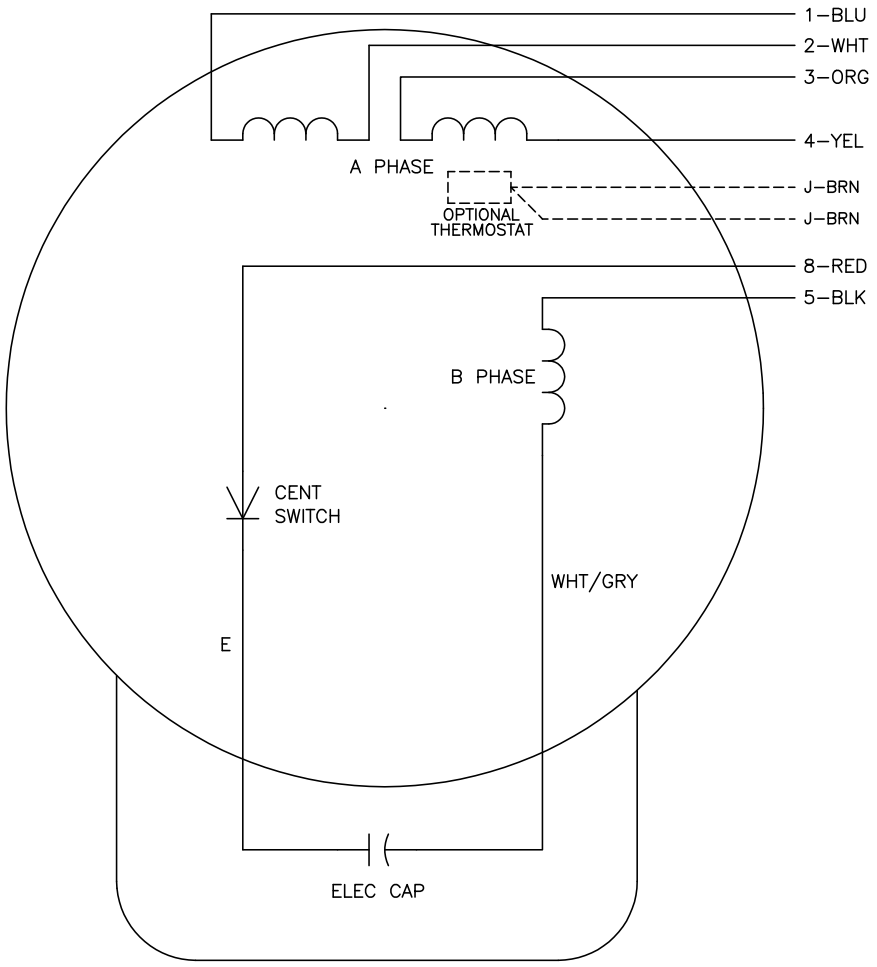
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9 PU=6 LR=7.5 LRA=78




35LYC013
510-520 = 12.22
521-528 = 13.23
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø4.500
4.497
Ø6.49
Ø.6250
.6245
3.75
6.61
5.71
4.18
45°
45°
5.55
THERMAL
(WHEN REQ'D)
4 HOLES
.38-16 TAP
ON 5.88 DIA. B.C.
LEAD HOLE
Ø.88
4.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV AC, NO CHG TO 2D PRINT
REV: N
VERSION: 06
REVISED: 09:42:56 04/07/2022
TDR: 000001188385
MODEL NO: 35LYC013
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD VERT 56C TEFC 35L
SH 1 of 1
35LYC013

CD0001




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:16 | TDR: 0178636 |
| CD0001 | | FILE: AAA00007405 | MDL: – |
| | | MTL: – | TYPE L, DV, REV, 6 LEADS |

CD0001