ABB BALDOR RELIANCE

# Customer information packet

## BL3510

1HP, 1750RPM, 1PH, 60HZ, 56, 3528L, TEFC, F1, BR
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.
11/21/2026 9:05:46 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56 |
| **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** | 1.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | 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** | 6.300 A @ 230.0 V |
| | 12.500 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 Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.3 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 35C022 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG376 |
| **Layout** | 35LYC022 |
| **Eff. date** | 12-17-2024 |
| **CD Diagram** | CD0001 |
| **Poles** | 04 |
| **Leads** | 6#18 Y |
| **Proprietary** | False |
| **Created date** | 02-23-2023 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 17.11 IN |
| **Power Factor** | 69 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.625 IN |
| **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**

| | NP1256L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | BL3510 | | | | | | | |
| **SPEC.** | 35C022G376 | | | | | | | |
| **HP** | 1 | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | |
| **AMP** | 12.5/6.3 | | | | | | | |
| **RPM** | 1750 | | | | | | | |
| **FRAME** | 56 | **HZ** | 60 | | | **PH** | 1 | |
| **SER.F.** | 1.15 | **CODE** | L | **DES** | L | **CLASS** | F | |
| **NEMA-NOM-EFF** | 74 | **PF** | 69 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| | SFA 13.9/6.95 | | | | | | | |

**AC Induction Motor Performance Data**
Record # 94946
Typical performance - not guaranteed values

| **Winding:** 35WGG376-R001 | **Type:** 3528L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 1 |
| **Volts** | | | 115/230 |
| **Full Load Amps** | | | 12.5/6.3 |
| **R.P.M.** | | | 1750 |
| **Hz** | 60 | **Phase** | 1 |
| **NEMA Design Code** | L | **KVA Code** | L |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 74 | **Power Factor** | 69 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | 13.9/6.95 |

| **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|
| **Full Load Torque** | 3.01 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 9.7 LB-FT |
| **Pull-up Torque** | 7.8 LB-FT |
| **Locked-rotor Torque** | 13.9 LB-FT |
| **Starting Current** | 85.3 A |
| **No-load Current** | 9.53 A |
| **Line-line Res. @ 25ºC** | 0.525 Ω A Ph<br>1.17 Ω B Ph |
| **Temp. Rise @ Rated Load** | 62°C |
| **Temp. Rise @ S.F. Load** | 70°C |
| **Locked-rotor Power Factor** | 94.8 |
| **Rotor inertia** | 0.203 lb-ft² |

**Load Characteristics 115 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 33 | 48 | 60 | 69 | 76 | 80 | 80 |
| **Efficiency** | 53.5 | 67.3 | 72.9 | 74.9 | 74.6 | 72.8 | 67.2 |
| **Speed** | 1786 | 1775 | 1763 | 1750 | 1735 | 1714 | 1704 |
| **Line amperes** | 9.3 | 9.98 | 11.06 | 12.51 | 14.28 | 16.82 | 13.9 |

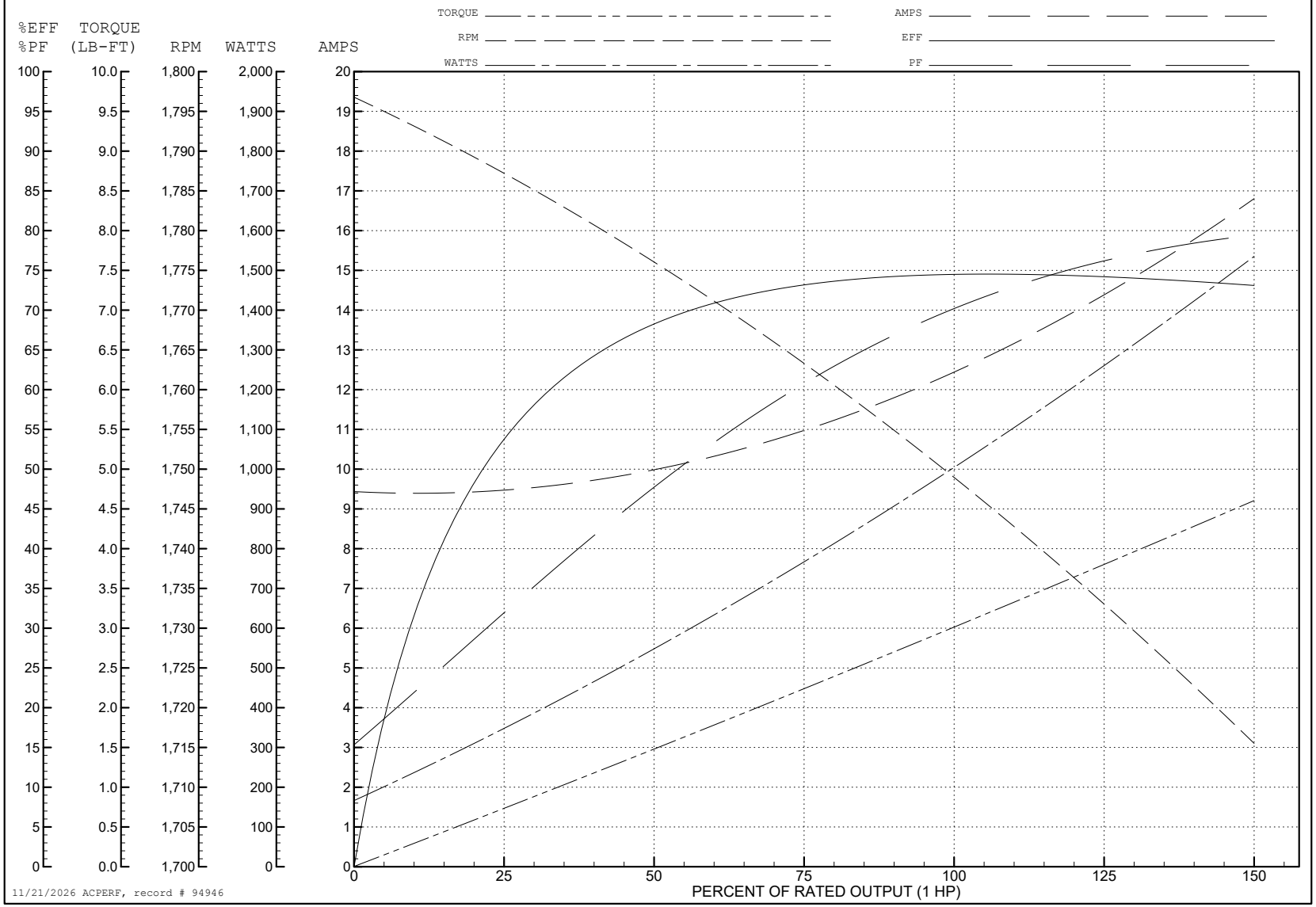
ABB Motors and Mechanical Inc.

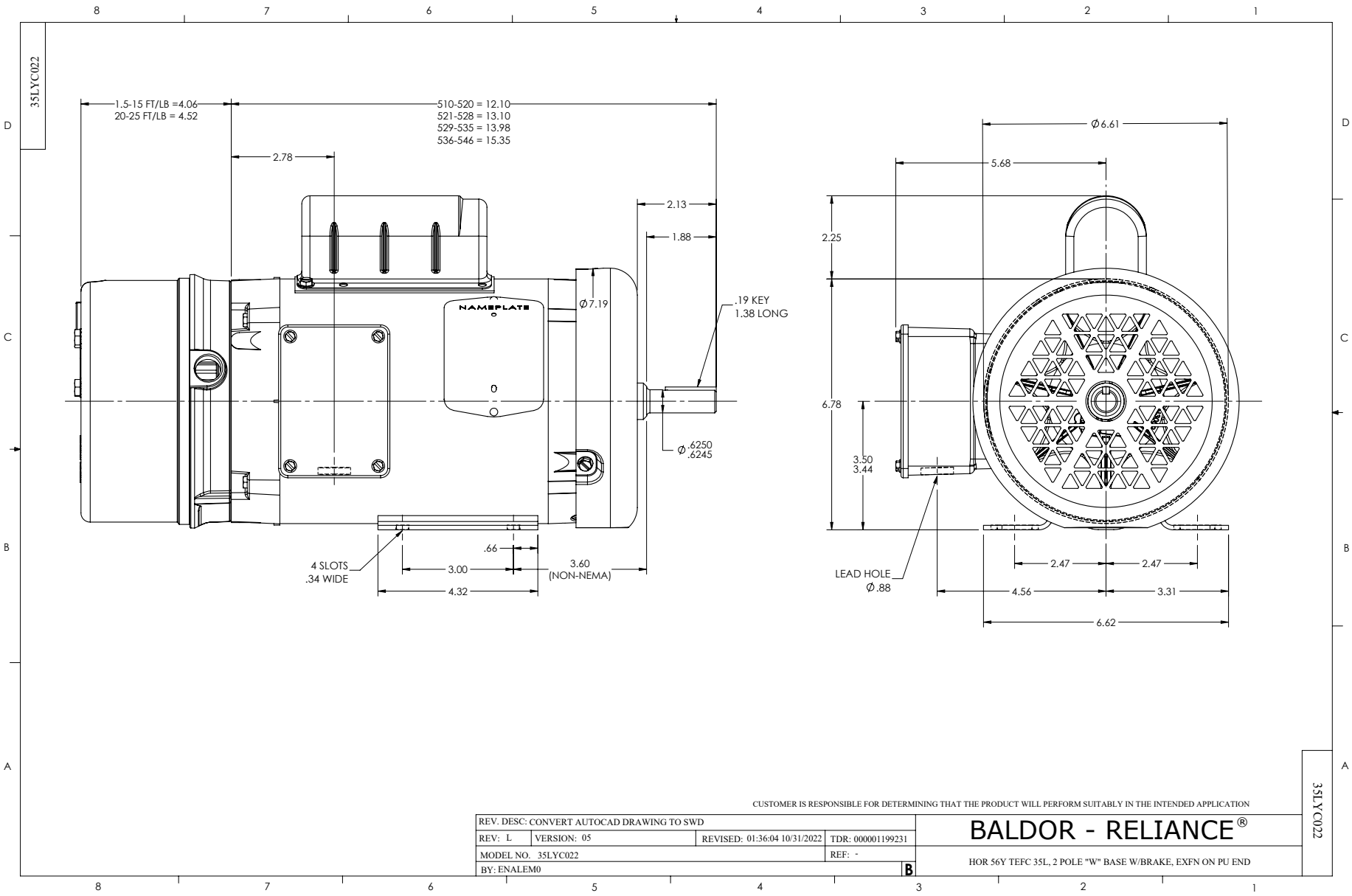
WINDING # 35WGG376

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L

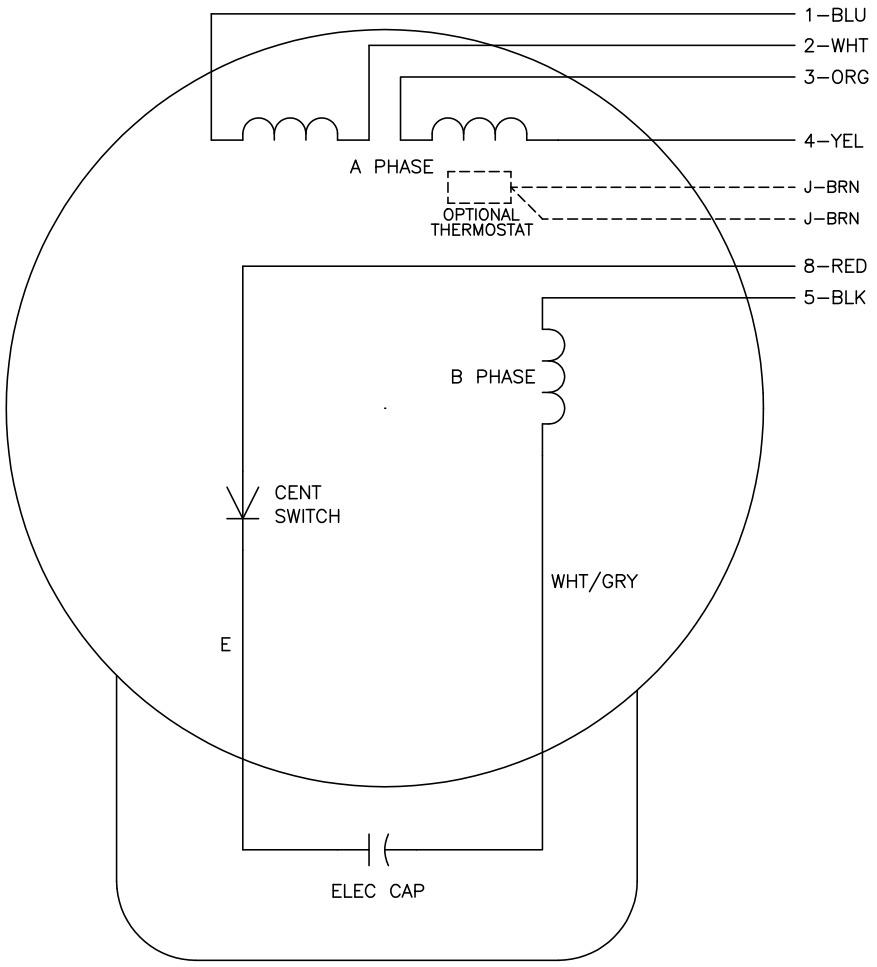
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3




35LYC022
1.5-15 FT/LB =4.06
20-25 FT/LB = 4.52
510-520 = 12.10
521-528 = 13.10
529-535 = 13.98
536-546 = 15.35
2.78
2.13
1.88
NAMEPLATE
Ø7.19
.19 KEY
1.38 LONG
Ø .6250
.6245
.66
4 SLOTS
.34 WIDE
3.00
3.60
(NON-NEMA)
4.32
Ø6.61
5.68
2.25
6.78
3.50
3.44
LEAD HOLE
Ø.88
2.47
2.47
4.56
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: L
VERSION: 05
REVISED: 01:36:04 10/31/2022
TDR: 000001199231
MODEL NO. 35LYC022
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 56Y TEFC 35L, 2 POLE "W" BASE W/BRAKE, EXFN ON PU END
35LYC022

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.

CD0001

| | | | |
|---|---|---|---|
| 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 |