ABB BALDOR RELIANCE

# Customer information packet

## VXL050542A

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3424L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UL |
| **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** | 3.700 A @ 230.0 V |
| | 3.900 A @ 208.0 V |
| | 7.400 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 64.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGW369 |
| **Layout** | 34LY5335 |
| **Eff. date** | 09-04-2024 |
| **CD Diagram** | CD0565 |
| **Poles** | 04 |
| **Leads** | 6#18,1#16 #4TH |
| **Proprietary** | False |
| **Created date** | 03-22-2021 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 3.7 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **IP Rating** | NONE |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3424L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 14.22 IN |
| **Power Factor** | 66 |
| **Product Family** | Hazardous Location Motor |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1725 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** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | EP |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | | **CC** | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 34-0000-0408 | | | | | | |
| **CAT.NO.** | VXL050542A | | | | | | |
| **H.P.** | .5 | | **T. CODE** | T3C | | | |
| **VOLTS** | 115/208-230 | | | | | | |
| **AMPS** | 7.4/3.9-3.7 | | | | | | |
| **R.P.M.** | 1725 34WGW369 | | | | | | |
| **HZ** | 60 | **PH** | 1 | | **CLASS** | B | |
| **SER.F.** | 1.00 | | **DES** | N | **CODE** | J | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 56C | | | | **NEMA NOM. EFF** | 64 | |
| | | **PF** | 66 | | | | |
| **BLANK** | NEMA MG-1 PART 5, IP54 | | | | | | |

**AC Induction Motor Performance Data**
Record # 48773
Typical performance - not guaranteed values

**Winding:** 34WGW369-R001 **Type:** 3424L **Enclosure:** XPFC

| Nameplate Data | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | .5 |
| **Volts** | | | 115/208-230 |
| **Full Load Amps** | | | 7.4/3.9-3.7 |
| **R.P.M.** | | | 1725 |
| **Hz** | 60 | **Phase** | 1 |
| **NEMA Design Code** | N | **KVA Code** | J |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 64 | **Power Factor** | 66 |
| **Rating - Duty** | | | 40C AMB-CONT |

| 115 V, 60 Hz: Low Voltage Connection | |
|---|---|
| **Full Load Torque** | 1.5 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 4.4 LB-FT |
| **Pull-up Torque** | 4 LB-FT |
| **Locked-rotor Torque** | 5.1 LB-FT |
| **Starting Current** | 38.8 A |
| **No-load Current** | 5.62 A |
| **Line-line Res. @ 25ºC** | 0.913 Ω A Ph<br>2.88 Ω B Ph |
| **Temp. Rise @ Rated Load** | 61°C |
| **Locked-rotor Power Factor** | 89.3 |
| **Rotor inertia** | 0.057 LB-FT2 |

**Load Characteristics 115 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 |
|---|---|---|---|---|---|---|
| **Power Factor** | 37 | 48 | 59 | 67 | 74 | 79 |
| **Efficiency** | 38.9 | 55.3 | 62.3 | 64.9 | 65.3 | 63.8 |
| **Speed** | 1781 | 1768 | 1753 | 1736 | 1717 | 1696 |
| **Line amperes** | 5.78 | 6.12 | 6.62 | 7.38 | 8.26 | 9.38 |

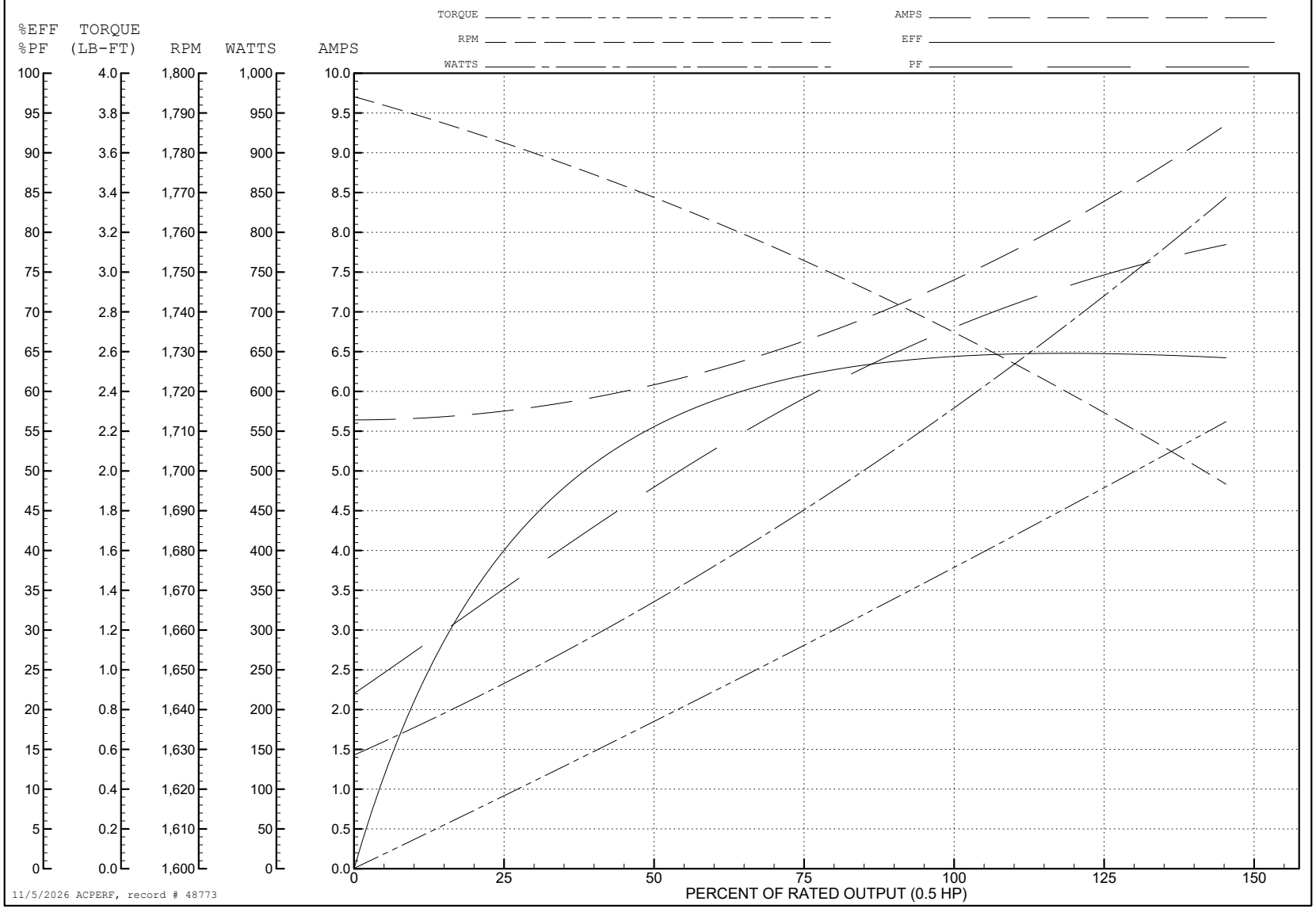
ABB Motors and Mechanical Inc.

WINDING # 34WGW369

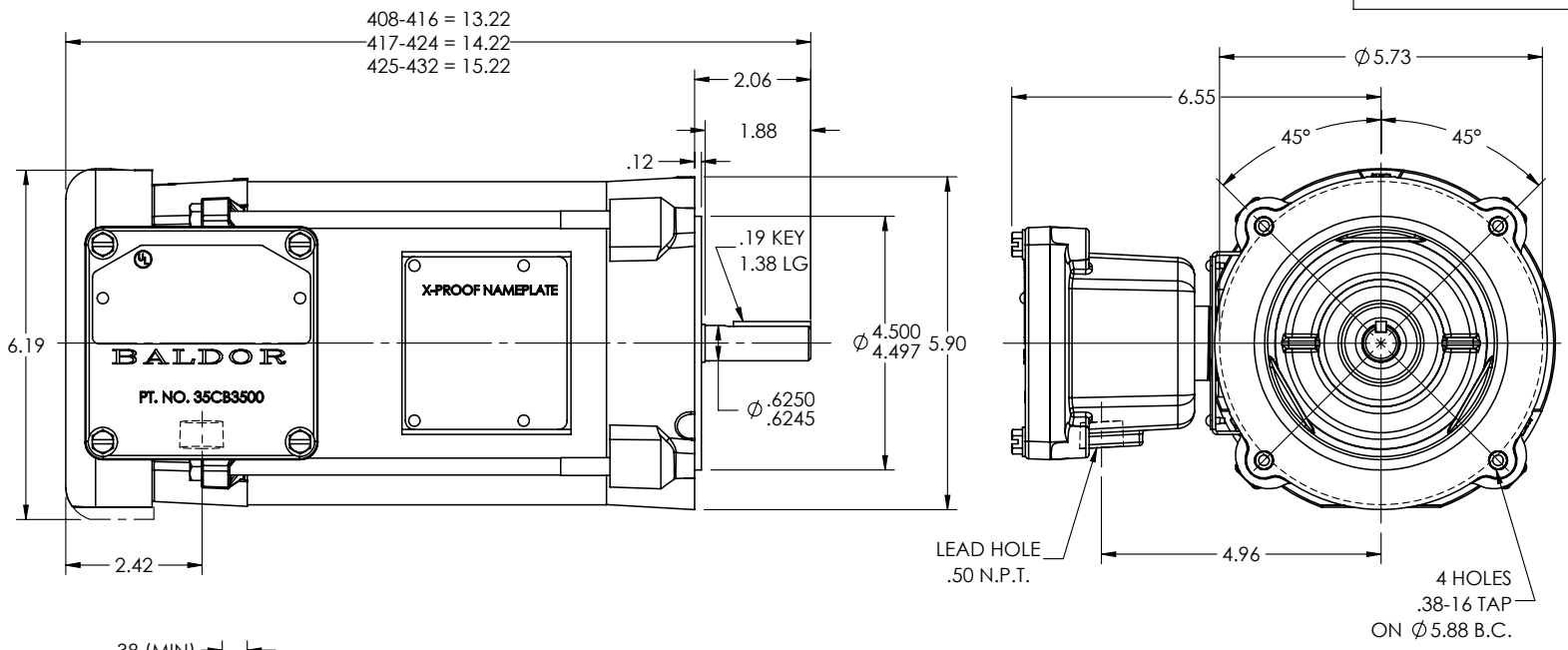
0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424L

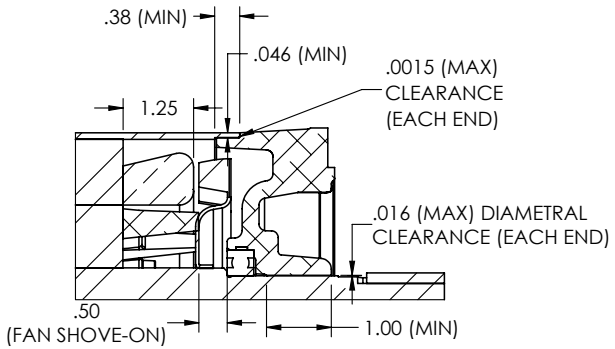
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.4 PU=4 LR=5.1 LRA=38.8



34LY5335




PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

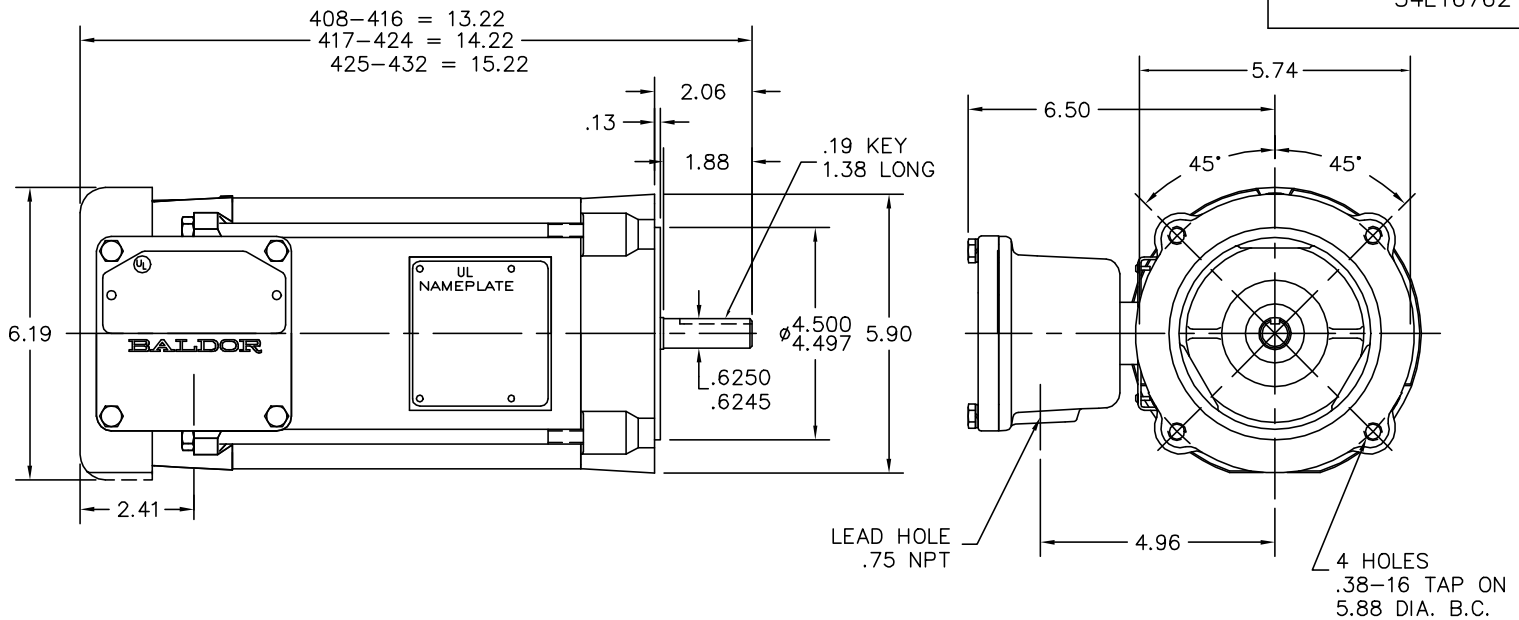
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|---|---|---|---|
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| 34LY5335 | MODEL NO. 34LY5335 | | REF: - |
| | BY: ENFRAJ0 | | |

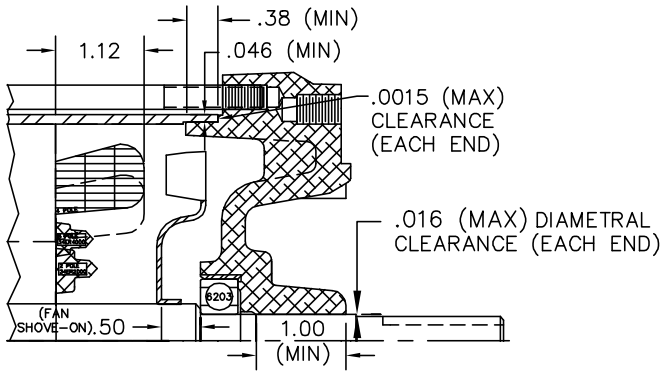
BALDOR - RELIANCE®

VERT X34L 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

34LY5335

34LY6762




CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | |
|---|---|---|
| REV. DESC: UPDATE DWG | | |
| REV. LTR: B | VERSION: 02 | TDR: 000000918748 |
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| MTL: – | | |

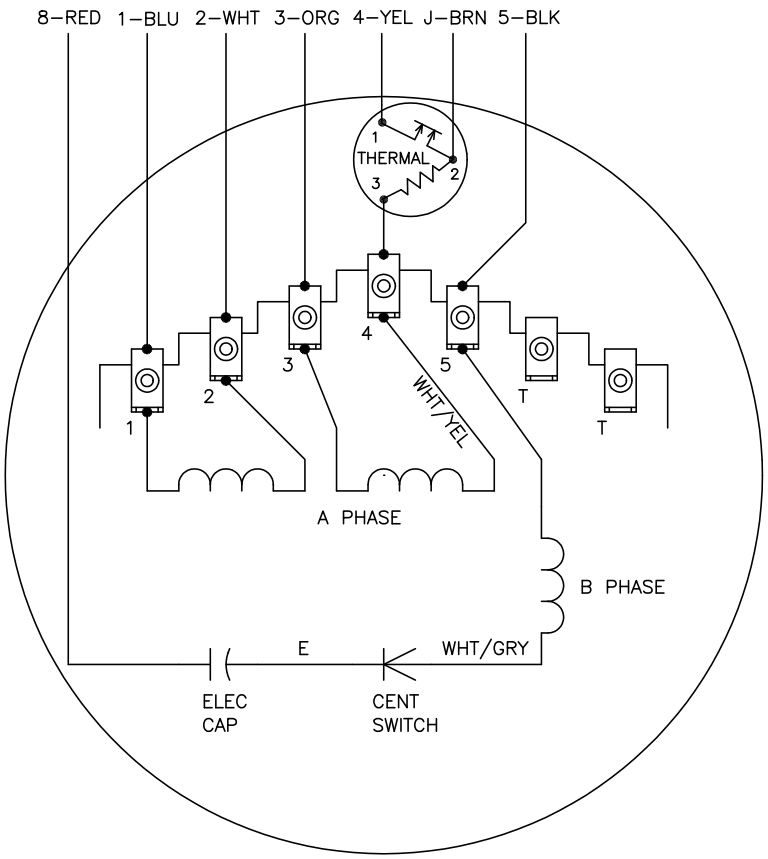
BALDOR

VERT X34L 56C XPFC CL–I GP–D, CL–II GP–F&G, .75 NPT LEAD

SH 1 of 1

34LY6762

CD0565

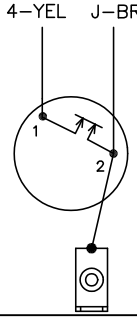



| | LINE A | LINE B | JOIN | JOIN |
|---|---|---|---|---|
| HIGH STD | 1 | 4 | 2,3,8 | J,5 |
| HIGH OPP | 1 | 4 | 2,3,5 | J.8 |
| LOW STD | 1,3,8 | 4 | – | 2,J,5 |
| LOW OPP | 1,3,5 | 4 | – | 2,J,8 |

NOTES:

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

CONNECTIONS FOR TWO–TERMINAL THERMAL




CD0565

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: C | BY: JLP | REVISED: 04/08/99 3:25 | TDR: 0178636 |
| CD0565 | | FILE: AAA00014311 | MDL: – |
| | | MTL: – | |

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LD, 34XP