ABB BALDOR RELIANCE

# Customer information packet

## L4005A

.33HP, 3450RPM, 1PH, 60HZ, 48, X3413L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/18/2026 9:31:13 PM

## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 48 |
| **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** | .330 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UL |
| | 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** | 3.000 A @ 230.0 V |
| | 6.000 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 55.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |

## Part Detail

| | |
|---|---|
| **Revision** | AG |
| **Type** | AC |
| **Mech. spec.** | 34-5426 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG0650 |
| **Layout** | 34LY5426 |
| **Eff. date** | 05-01-2024 |
| **CD Diagram** | CD0565 |
| **Poles** | 02 |
| **Leads** | 6#18,1#16 #4TH |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.0 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3413L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.85 IN |
| **Power Factor** | 68 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.500 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** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | SB |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | | **CC** | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 34-5426-650 | | | | | | |
| **CAT.NO.** | L4005A | | | | | | |
| **H.P.** | .33 | | **T. CODE** | T3C | | | |
| **VOLTS** | 115/230 | | | | | | |
| **AMPS** | 6/3 | | | | | | |
| **R.P.M.** | 3450 | | | | | | |
| **HZ** | 60 | **PH** | 1 | | **CLASS** | B | |
| **SER.F.** | 1.00 | | **DES** | N | **CODE** | K | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 48 | | | | **NEMA NOM. EFF** | 55 | |
| | | **PF** | 68 | | | | |
| **BLANK** | | | | | | | |

**AC Induction Motor Performance Data**
Record # 73059
Typical performance - not guaranteed values

| **Winding:** 34WG0650-R002 | **Type:** 3413L | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .33 | **Full Load Torque** | 0.4995 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 6/3 | **Breakdown Torque** | 1.58 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 1.31 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 1.76 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | K | **Starting Current** | 13.8 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 2.24 A |
| **NEMA Nom. Eff.** | 55 | **Power Factor** | 68 | **Line-line Res. @ 25ºC** | 7.0796 Ω A Ph<br>5.4167 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 73°C |

**Load Characteristics 230 V, 60 Hz, 0.33 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 40 | 53 | 62 | 70 | 76 | 82 |
| **Efficiency** | 29.2 | 43 | 51.6 | 56.5 | 58.4 | 58.2 |
| **Speed** | 3547.7 | 3515.1 | 3485.3 | 3449.7 | 3405.9 | 3349.5 |
| **Line amperes** | 2.26 | 2.35 | 2.49 | 2.69 | 2.98 | 3.38 |

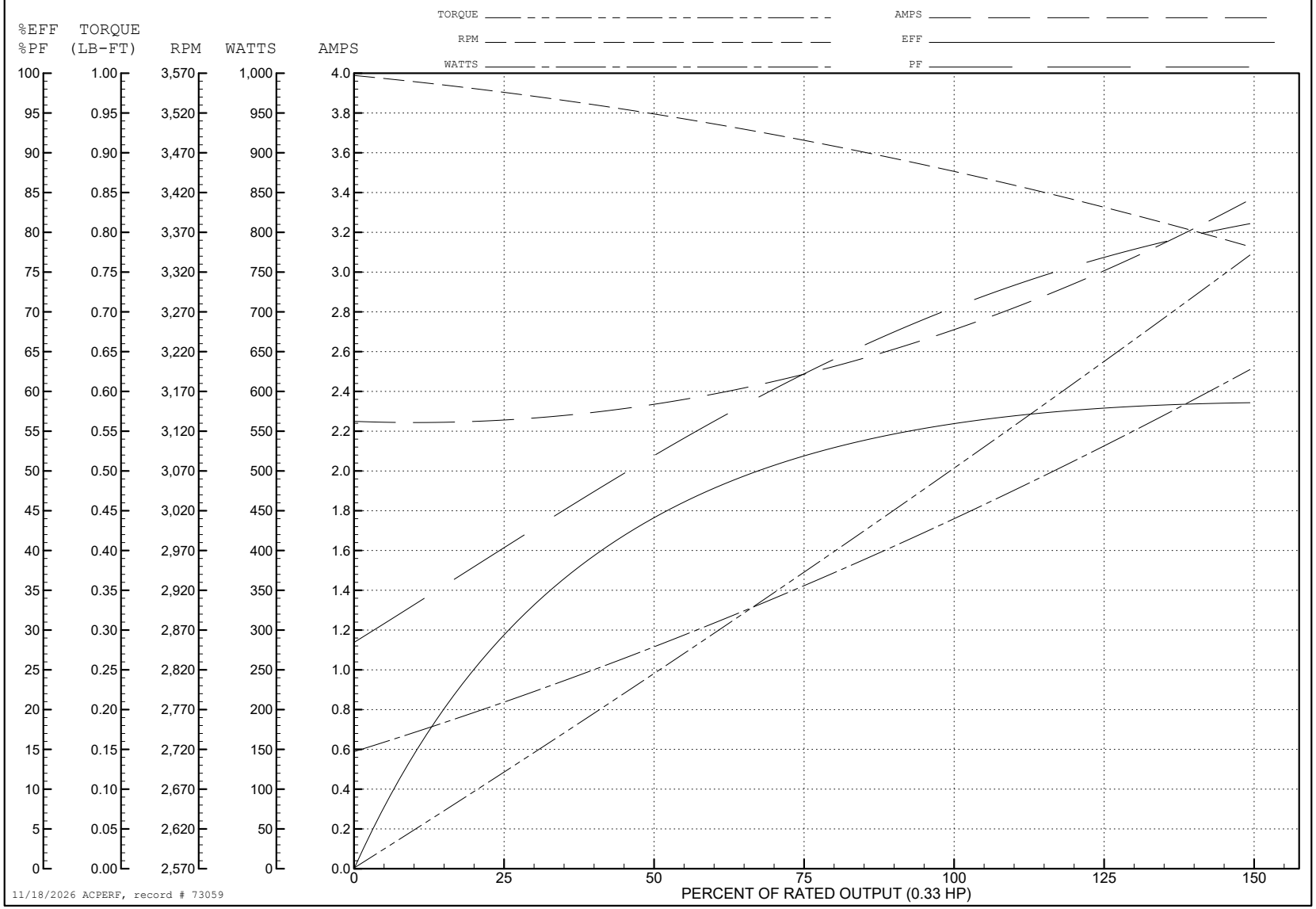
ABB Motors and Mechanical Inc.

WINDING # 34WG0650

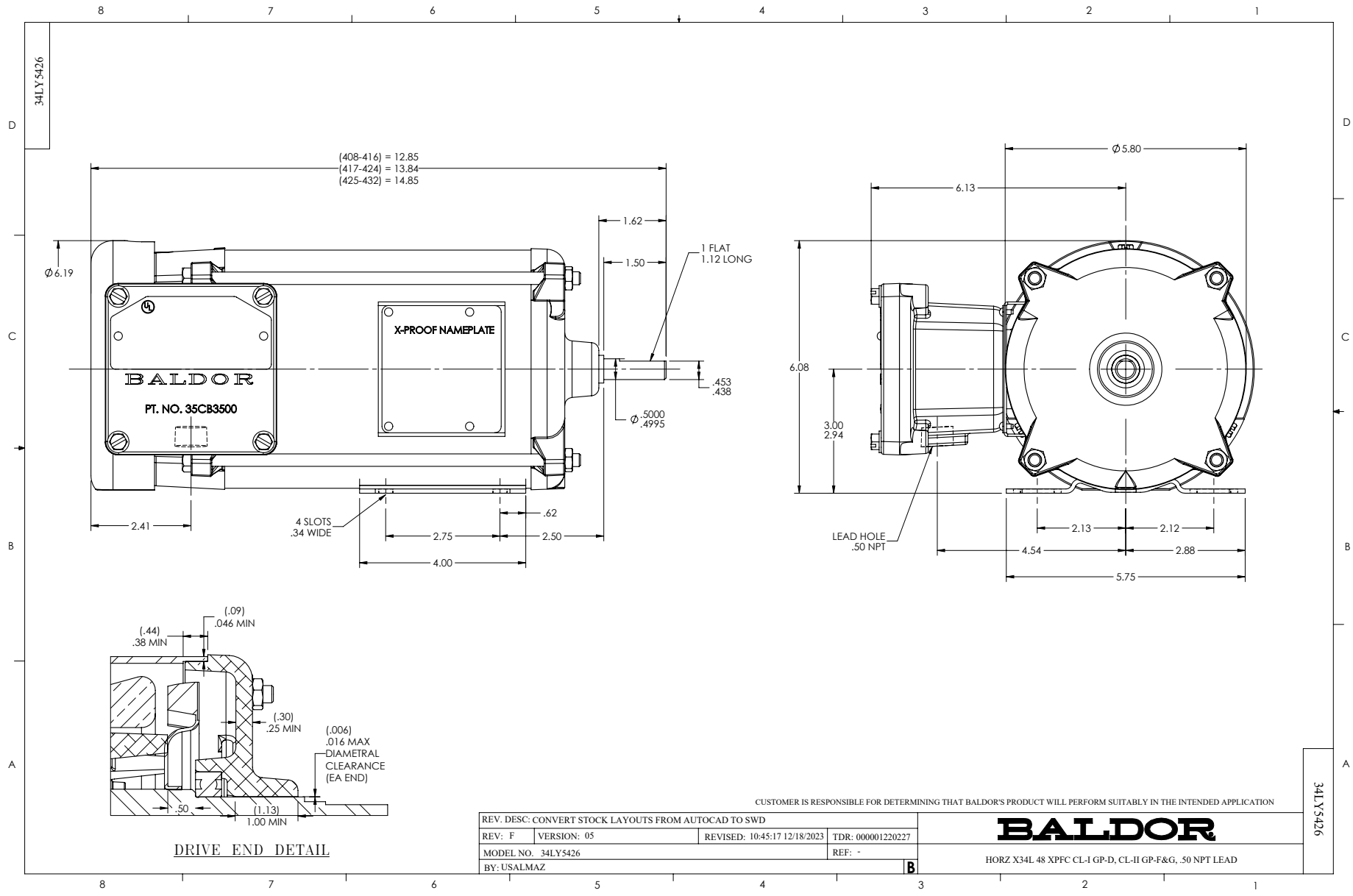
0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3413L

Typical performance - not guaranteed values.

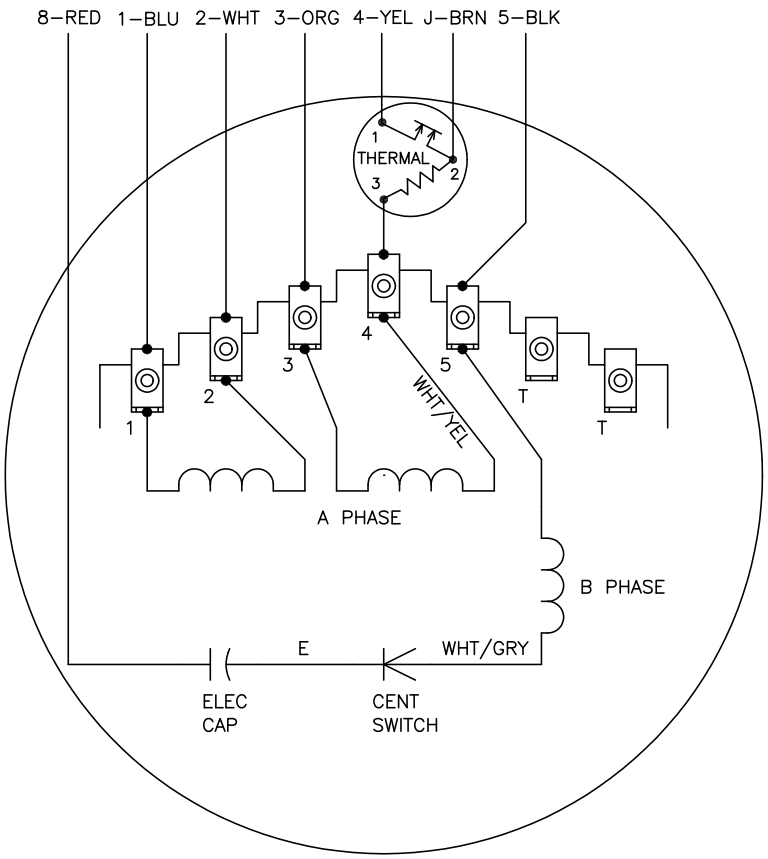
TORQUES(LB-FT): PO=1.58 PU=1.31 LR=1.76 LRA=13.8




11/18/2026 ACPERF, record # 73059


34LY5426
(408-416) = 12.85
(417-424) = 13.84
(425-432) = 14.85
1.62
1.50
1 FLAT
1.12 LONG
Ø6.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
.453
.438
Ø.5000
.4995
2.41
4 SLOTS
.34 WIDE
.62
2.75
2.50
4.00
Ø5.80
6.13
6.08
3.00
2.94
LEAD HOLE
.50 NPT
2.13
2.12
4.54
2.88
5.75
(.09)
.046 MIN
(.44)
.38 MIN
(.30)
.25 MIN
(.006)
.016 MAX
DIAMETRAL
CLEARANCE
(EA END)
.50
(1.13)
1.00 MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: F
VERSION: 05
REVISED: 10:45:17 12/18/2023
TDR: 000001220227
MODEL NO. 34LY5426
REF: -
BY: USALMAZ
B
BALDOR
HORZ X34L 48 XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD
34LY5426

CD0565

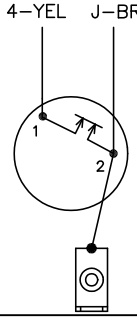



| | LINE A | LINE B | JOIN | JOIN |
|---|---|---|---|---|
| HIGH STD | 1 | 4 | 2,3,8 | J,5 |
| HIGH OPP | 1 | 4 | 2,3,5 | J.8 |
| LOW STD | 1,3,8 | 4 | – | 2,J,5 |
| LOW OPP | 1,3,5 | 4 | – | 2,J,8 |

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