

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VL3510-50**

**1HP,1425RPM,1PH,50HZ,56C,3532L,TEFC,F1**

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| Part Detail       |              |             |       |                |          |               |            |    |   |
|-------------------|--------------|-------------|-------|----------------|----------|---------------|------------|----|---|
| Revision:         | AG           | Status:     | PRD/A | Change #:      |          | Proprietary:  | No         |    |   |
| Type:             | AC           | Prod. Type: | 3532L | Elec. Spec:    | 35WGY990 | CD Diagram:   |            |    |   |
| Enclosure:        | TEFC         | Mfg Plant:  |       | Mech. Spec:    | 35C013   | Layout:       |            |    |   |
| Frame:            | 56C          | Mounting:   | F1    | Poles:         | 04       | Created Date: |            |    |   |
| Base:             | N            | Rotation:   | R     | Insulation:    | B        | Eff. Date:    | 02-28-2012 |    |   |
| Leads:            | 6#18         | Literature: |       | Elec. Diagram: |          | Replaced By:  |            |    |   |
| Nameplate NP1372L |              |             |       |                |          |               |            |    |   |
| CAT.NO.           | VL3510-50    |             |       |                |          |               |            |    |   |
| SPEC.             | 35C13Y990    |             |       |                |          |               |            |    |   |
| HP                | 1            |             |       |                |          |               |            |    |   |
| VOLTS             | 110/220      |             |       |                |          |               |            |    |   |
| AMP               | 12.4/6.2     |             |       |                |          |               |            |    |   |
| RPM               | 1425         |             |       |                |          |               |            |    |   |
| FRAME             | 56C          | HZ          |       |                | 50       | PH            | 1          |    |   |
| SER.F.            | 1.15         | CODE        |       |                | J        | DES           | L          | CL | B |
| NEMA-NOM-EFF      | 68           | PF          |       |                | 82       |               |            |    |   |
| RATING            | 40C AMB-CONT |             |       |                |          |               |            |    |   |
| CC                |              |             |       | USABLE AT 208V |          |               |            |    |   |
| DE                | 6205         | ODE         |       |                | 6203     |               |            |    |   |
| ENCL              | TEFC         | SN          |       |                |          |               |            |    |   |
|                   | IP44         |             |       |                |          |               |            |    |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA022592      | SA 35C13Y990                             | 1.000 EA |
| RA018642      | RA 35C13Y990                             | 1.000 EA |
| EC1540A06SP   | ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.  | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB3007      | 35 CB CASTING W/.88 DIA. LEAD HOLE       | 1.000 EA |
| 36GS1000SP    | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 EA |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP3100M02   | FREP TEFC 203 BRG W/O GRSR (RAISED FH MT | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| NS2501A01     | INSULATOR, CAPACITOR                     | 1.000 EA |
| 51XB1016A05   | 10-16X5/16HX WA SL SR TYB (F/S)          | 2.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3300A33   | SPL FACE MTD EP -ENCL-205 BRG            | 1.000 EA |
| 51XN1032A20   | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 EA |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| 35FH4005A32SP | IEC FH NO GRSR W/3 HOLES - W/AUTOPHERETI | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB4521GX    | CONDUIT BOX LID KIT                      | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501D13SP   | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 2.000 EA |
| MJ1000A75              | GREASE, POLYREX EM EXXON                 | 0.050 LB |
| MG1000G27              | PAINT- S9282E CHARCOAL GREY              | 0.017 GA |
| SP5055A67              | MODEL 35 TYPE L STATIONARY SWITCH        | 1.000 EA |
| 35CB4802A02SP          | CAPACITOR COVER, STAMPED X W/AUTOPHORET  | 1.000 EA |
| 35GS3001A02            | GASKET, CA.COVER, 5.38 LONG .06 CS301    | 1.000 EA |
| HA3100A18              | THRUBOLT 10-32 X 9.250                   | 4.000 EA |
| LB1119                 | WARNING LABEL                            | 1.000 EA |
| LB5040                 | INSTRUCTION TAG, AC & DC                 | 1.000 EA |
| LB1125C01              | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 1.000 EA |
| LC0001                 | CONN LABEL TYPE L, 6 LEAD, DUAL VOLTS, R | 1.000 EA |
| NP1372L                | ALUM UL CSA CE CC                        | 1.000 EA |
| 35PA1066               | PACKING GROUP COMBINED PRINT             | 1.000 EA |
| PK3082                 | STYROFOAM CRADLE                         | 1.000 EA |

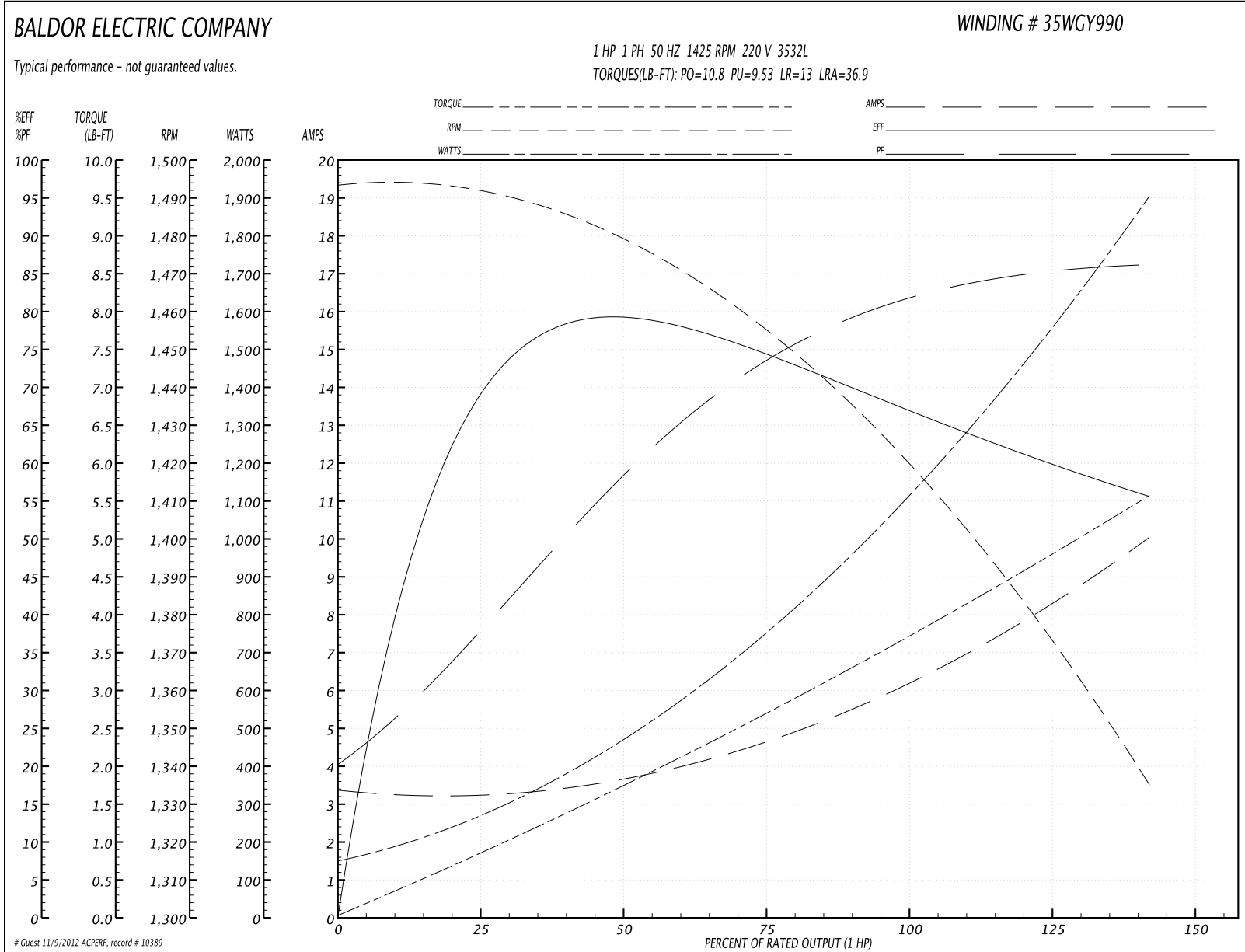
**Performance Data at 220V, 50Hz, 1.0HP (Typical performance - Not guaranteed values)****General Characteristics**

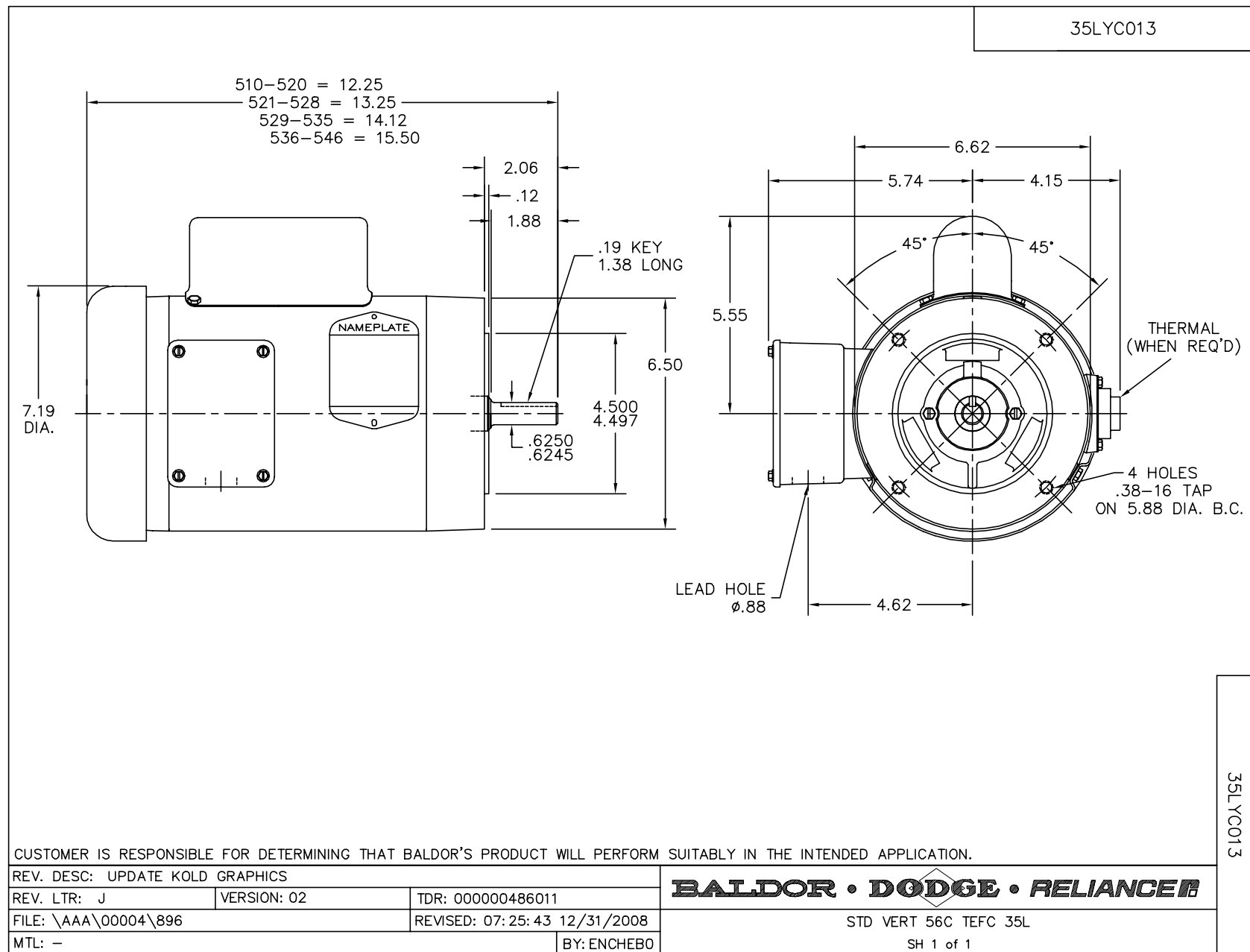
|                          |                                |                      |            |
|--------------------------|--------------------------------|----------------------|------------|
| Full Load Torque:        | 3.69 LB-FT                     | Start Configuration: | DOL        |
| No-Load Current:         | 3.19 Amps                      | Break-Down Torque:   | 10.8 LB-FT |
| Line-line Res. @ 25°C.:  | 2.9 Ohms A Ph / 1.77 Ohms B Ph | Pull-Up Torque:      | 9.53 LB-FT |
| Temp. Rise @ Rated Load: | 62 C                           | Locked-Rotor Torque: | 13.0 LB-FT |
| Temp. Rise @ S.F. Load:  | 76 C                           | Starting Current:    | 36.9 Amps  |

**Load Characteristics**

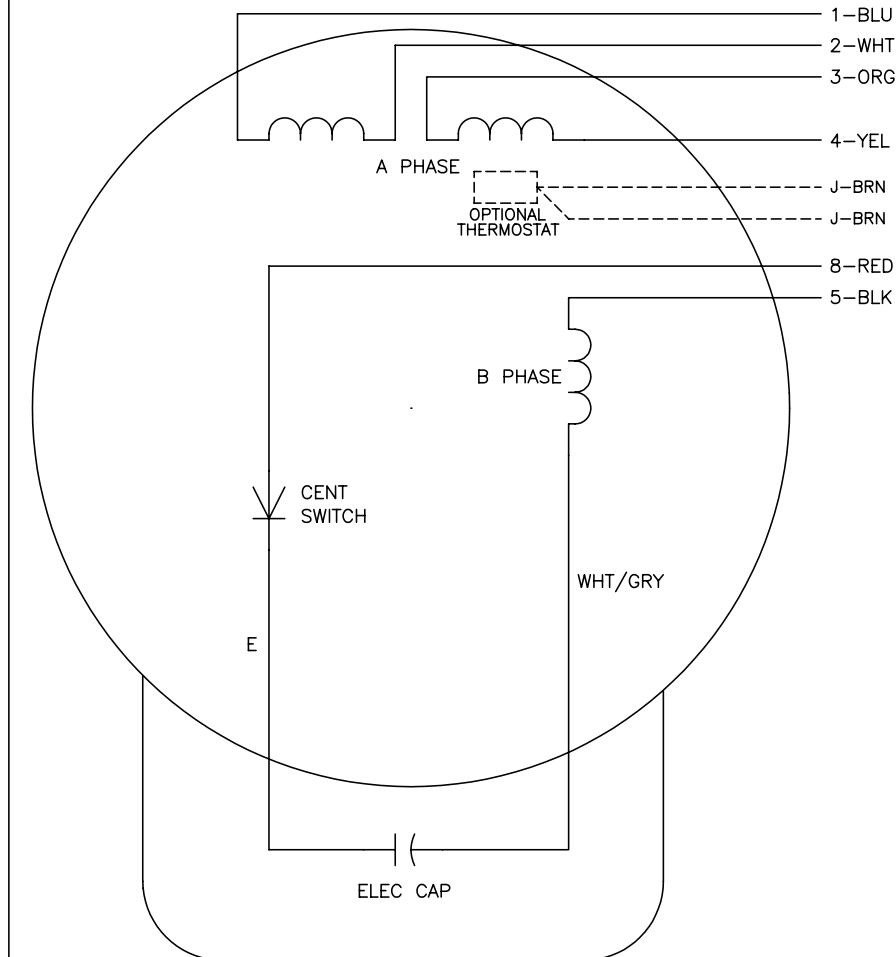
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F.   |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| Power Factor:   | 41.0   | 62.0   | 74.0   | 81.0   | 86.0   | 88.0   | 84.0   |
| Efficiency:     | 61.2   | 71.3   | 72.8   | 70.2   | 63.2   | 53.0   | 66.0   |
| Speed:          | 1488.0 | 1471.0 | 1452.0 | 1427.0 | 1384.0 | 1322.0 | 1401.0 |
| Line Amperes:   | 3.36   | 3.92   | 4.79   | 5.97   | 7.94   | 10.5   | 7.15   |

## Performance Graph at 220V, 50Hz, 1.0HP Typical performance - Not guaranteed values





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

REV. LTR: D BY: JLP REVISED: 04/08/99 1:16 TDR: 0178636

100000

FILE: AAA00007405

MDL: —

MTL: —

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, 6 LEADS

CD0001