

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VHECP4110T**

**40HP,1775RPM,3PH,60HZ,324HP,1260M,TEFC**

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| Part Detail       |              |                |       |                |          |               |            |    |   |
|-------------------|--------------|----------------|-------|----------------|----------|---------------|------------|----|---|
| Revision:         | Q            | Status:        | PRD/A | Change #:      |          | Proprietary:  | No         |    |   |
| Type:             | AC           | Prod. Type:    | 1260M | Elec. Spec:    | 12WGX277 | CD Diagram:   |            |    |   |
| Enclosure:        | TEFC         | Mfg Plant:     |       | Mech. Spec:    | 12S033   | Layout:       |            |    |   |
| Frame:            | 324HP        | Mounting:      | F1    | Poles:         | 04       | Created Date: |            |    |   |
| Base:             | N            | Rotation:      | R     | Insulation:    | F        | Eff. Date:    | 06-12-2012 |    |   |
| Leads:            | 9#8          | Literature:    |       | Elec. Diagram: |          | Replaced By:  |            |    |   |
| Nameplate NP1260E |              |                |       |                |          |               |            |    |   |
| CAT.NO.           | VHECP4110T   |                |       |                |          |               |            |    |   |
| SPEC.             | 12S033X277G1 |                |       |                |          |               |            |    |   |
| HP                | 40           |                |       |                |          |               |            |    |   |
| VOLTS             | 230/460      |                |       |                |          |               |            |    |   |
| AMP               | 92/46        |                |       |                |          |               |            |    |   |
| RPM               | 1775         |                |       |                |          |               |            |    |   |
| FRAME             | 324HP        | HZ             |       |                | 60       | PH            | 3          |    |   |
| SER.F.            | 1.15         | CODE           |       |                | H        | DES           | B          | CL | F |
| NEMA-NOM-EFF      | 94.5         | PF             |       |                | 86       |               |            |    |   |
| RATING            | 40C AMB-CONT |                |       |                |          |               |            |    |   |
| CC                | 010A         | USABLE AT 208V |       |                | 99       |               |            |    |   |
| DE                | 6312         | ODE            |       |                | 6311     |               |            |    |   |
| ENCL              | TEFC         | SN             |       |                |          |               |            |    |   |
|                   |              |                |       |                |          |               |            |    |   |

| Parts List     |                                          |          |
|----------------|------------------------------------------|----------|
| Part Number    | Description                              | Quantity |
| SA123668       | SA 12S033X277G1                          | 1.000 EA |
| RA114144       | RA 12S033X277G1                          | 1.000 EA |
| S/P107-000-004 | SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E | 1.000 EA |
| 10CB1000A16P   | SPL CONDUIT BOX W/ PRIMER                | 1.000 EA |
| 09GS1010       | GASKET, DWG, LEADWIRE SEPERATOR          | 1.000 EA |
| 10XN3118K16    | 5/16-18 X 1" GRADE #5, STL, ZINC PLATE   | 4.000 EA |
| HW1001A31      | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| WD1000B16      | KPA-4C BURNDY TERMINAL                   | 1.000 EA |
| 10XN2520K08    | 1/4-20 X .50 GRADE #5, STL, ZINC PLATE   | 1.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 1.000 EA |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| MG1025N19      | PAINT, 778.50 WILKO, RELIANCE ELEC GREEN | 0.080 GA |
| HA3400A18      | STUD .50-13 X 7.50L W/4.19L HEX WELKER   | 4.000 EA |
| HW1001A50      | LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I | 4.000 EA |
| HW4600B41      | V-RING SLINGER 2.125 X 2.880 X 0.280     | 1.000 EA |
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| HW5100A13      | W4627-047 WVY WSHER                      | 1.000 EA |
| 10XN3118K36    | 5/16-18 X 2.25" HEX HD, GRADE 5          | 2.000 EA |
| 10XN3118K72    | 5/16-18 X 4.50" HEX HD, GRADE 5          | 4.000 EA |
| 12EP1502A02P   | ENDPLATE, MACH W/EPOXY PRIMER            | 1.000 EA |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| 10XN5013K36    | 1/2-13 X 2.25" HEX HD GRADE 5            | 4.000 EA |
| HW1001A50      | LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I | 4.000 EA |
| 12FH1002A08P   | FAN COVER, MACH W/EPOXY PRIMER           | 1.000 EA |

| Parts List (continued) |                                           |          |
|------------------------|-------------------------------------------|----------|
| Part Number            | Description                               | Quantity |
| HW1001A50              | LOCKWASHER 1/2, ZINC PLT, .879 OD, .509 I | 4.000 EA |
| XY5013A12              | NUT, 1/2-13, HEX, STEEL, ZINC PLATED      | 4.000 EA |
| HW3203A02              | 1/2-13 HVY FORGED EYE-NUT                 | 2.000 EA |
| 12FH1500A01P           | MACH DRIP COVER 310-312 MTRS              | 1.000 EA |
| 10XN3816K34            | 3/8-16 X 2.13 HEX HD CAP SCREW, GRADE 5   | 4.000 EA |
| HW1001A38              | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I  | 4.000 EA |
| 10CB1503A01P           | CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR  | 1.000 EA |
| 14GS1003               | GASKET CONDUIT BOX LID, NEOP              | 1.000 EA |
| 10XN2520K16            | 1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P    | 4.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I  | 4.000 EA |
| HW2501G32              | KEY, 3/8 SQ X 3.750                       | 1.000 EA |
| MJ5001A01              | 46-665 RED SEALER                         | 0.031 QT |
| MJ5001A14              | DYNAPRO SEAL, CP MOTORS VC#2508050 (603   | 0.029 EA |
| LB1115                 | LABEL, LIFTING DEVICE                     | 1.000 EA |
| LB1182                 | WARNING LABEL FOR MOTORS WITH EYENUTS     | 2.000 EA |
| HW4500A21              | 1618BALEMITE FITTING 825 UNIVERSAL        | 1.000 EA |
| HA4017A01              | 1/8 X 4 GREASE EXT (F/S)                  | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF              | 1.000 EA |
| MJ1000A75              | GREASE, POLYREX EM EXXON                  | 0.200 LB |
| HW4500A03              | GREASE FITTING, .125 NPT 1610(ALEMITE) 8  | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF              | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS               | 2.000 EA |
| LB1002                 | LABEL, MARINE DUTY (ON ROLLS)             | 1.000 EA |
| LB5040                 | INSTRUCTION TAG, AC & DC                  | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 12EP1107A13GP6         | FREP, MACH W/EPOXY PRIMER & MG1025N19    | 1.000 EA |
| 09FN5001B03            | EXT FAN ASS'Y W/09FN3001B03              | 1.000 EA |
| LB1119                 | WARNING LABEL                            | 1.000 EA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |
| LB1125C02              | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA |
| NP1260E                | SS CP SUPER-E UL CSA CC                  | 1.000 EA |
| 10PA1052               | PKGP 09-12 BRAKE LG FLANGE               | 1.000 EA |
| LB1357                 | ENERGY GUIDE LABEL (BOX LABEL)           | 2.000 SH |

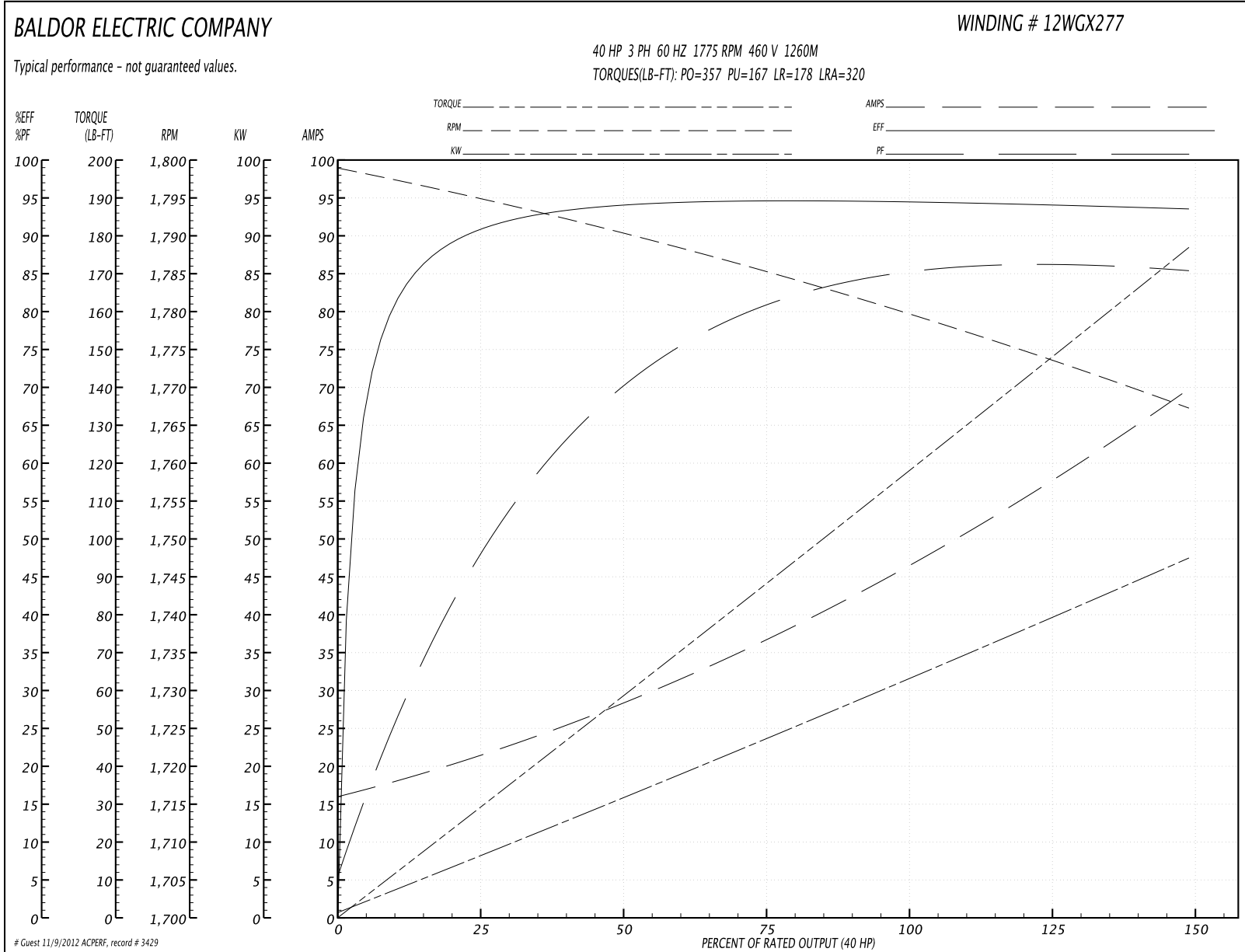
**Performance Data at 460V, 60Hz, 40.0HP (Typical performance - Not guaranteed values)****General Characteristics**

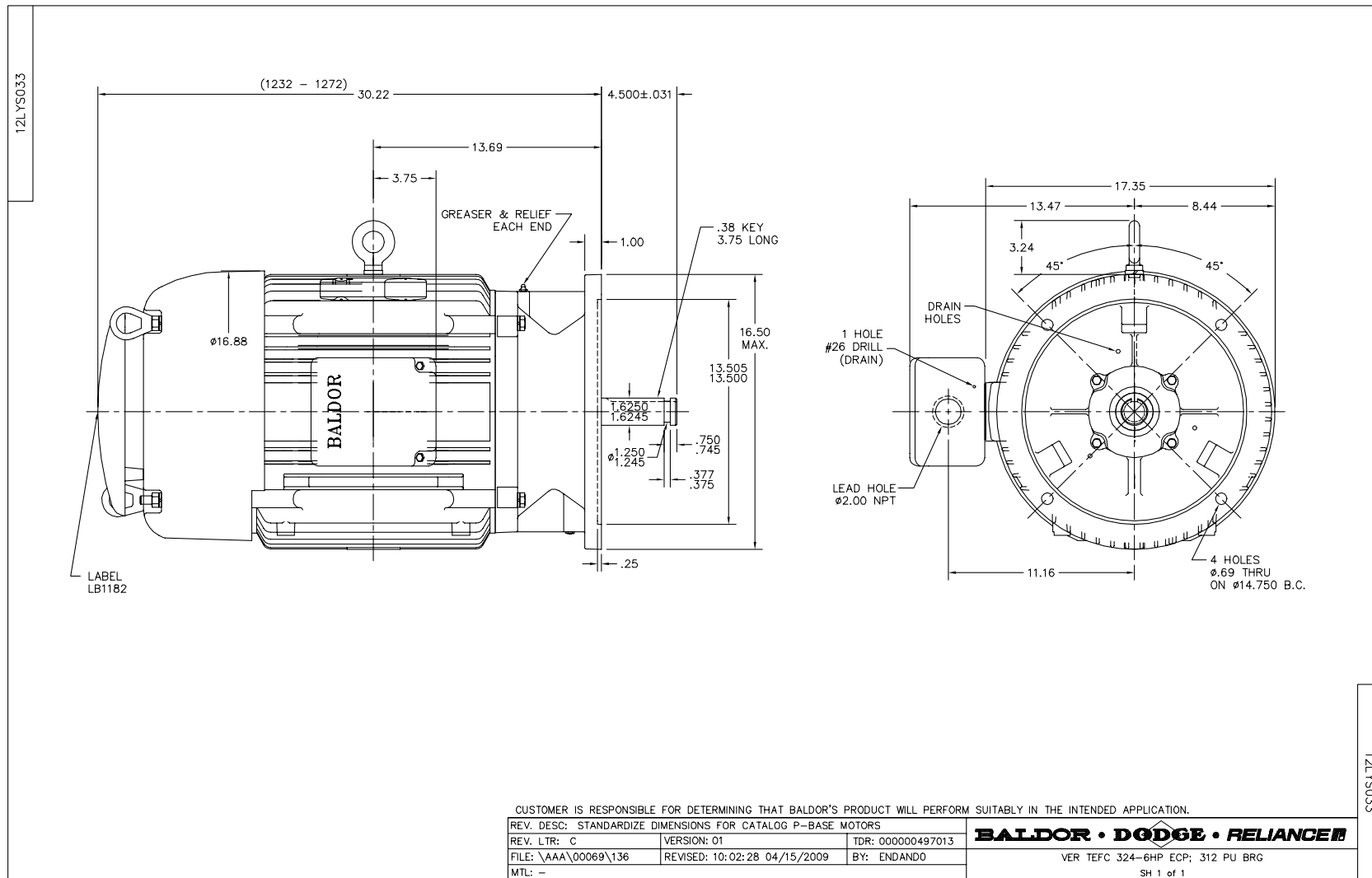
|                                 |                                 |                             |             |
|---------------------------------|---------------------------------|-----------------------------|-------------|
| <b>Full Load Torque:</b>        | 118.0 LB-FT                     | <b>Start Configuration:</b> | DOL         |
| <b>No-Load Current:</b>         | 16.8 Amps                       | <b>Break-Down Torque:</b>   | 357.0 LB-FT |
| <b>Line-line Res. @ 25°C.:</b>  | 0.146 Ohms A Ph / 0.0 Ohms B Ph | <b>Pull-Up Torque:</b>      | 167.0 LB-FT |
| <b>Temp. Rise @ Rated Load:</b> | 51 C                            | <b>Locked-Rotor Torque:</b> | 178.0 LB-FT |
| <b>Temp. Rise @ S.F. Load:</b>  | 62 C                            | <b>Starting Current:</b>    | 320.0 Amps  |

**Load Characteristics**

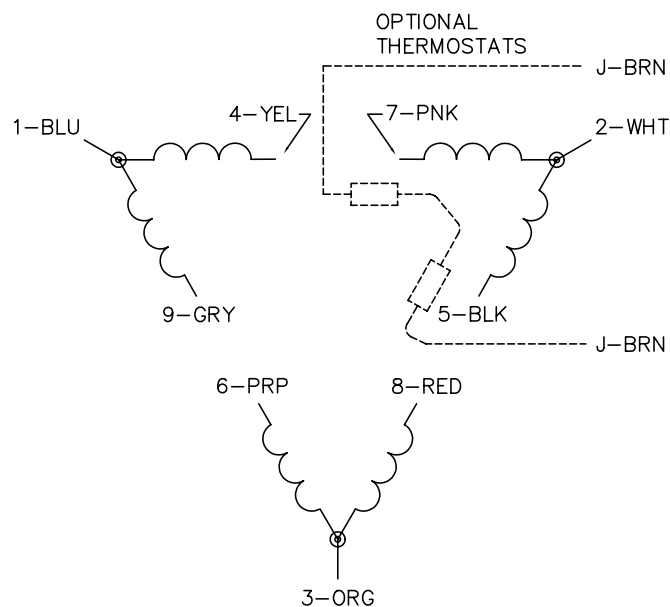
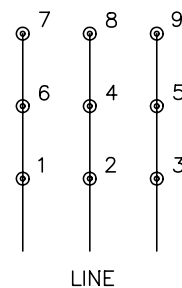
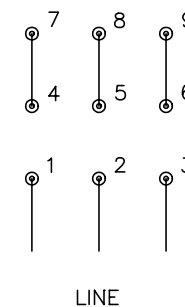
| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>S.F.</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| <b>Power Factor:</b>   | 52.0      | 73.0      | 81.0      | 84.0       | 86.0       | 86.0       | 85.0        |
| <b>Efficiency:</b>     | 90.6      | 93.9      | 94.6      | 94.6       | 94.1       | 93.5       | 94.3        |
| <b>Speed:</b>          | 1795.0    | 1790.0    | 1785.0    | 1780.0     | 1774.0     | 1767.0     | 1776.0      |
| <b>Line Amperes:</b>   | 20.4      | 28.0      | 37.1      | 46.9       | 58.1       | 69.2       | 53.78       |

## Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values





CD0180


 LOW VOLTAGE  
(2D)

 HIGH VOLTAGE  
(1D)


## NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 2:28

TDR: 0171435

0810D0

FILE: AAA00005148

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180