



---

# Customer information packet

## DRX18524T

5HP, 3500//2900RPM, 3PH, 60HZ, 184T, XPFC, F1

Class - CLI GP C,D

Division - Division I

## Specifications

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                              |
| Frame                          | 184T                                                                              |
| Frame Material                 | Iron                                                                              |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                              |
| Haz Area Class and Group       | CLI GP C,D                                                                        |
| Haz Area Division              | Division I                                                                        |
| Motor Letter Type              | Three Phase                                                                       |
| Output @ Frequency             | 5.000 HP @ 60 HZ<br>3.000 HP @ 50 HZ                                              |
| Phase                          | 3                                                                                 |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                                                  |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ          |
| Agency Approvals               | UL<br>CSA EEV                                                                     |
| 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                                                                              |
| Constant Torque Speed Range    | 6                                                                                 |
| Current @ Voltage              | 11.000 A @ 230.0 V<br>4.200 A @ 380.0 V<br>5.500 A @ 460.0 V<br>8.400 A @ 190.0 V |
| Design Code                    | A                                                                                 |
| Drip Cover                     | No Drip Cover                                                                     |
| Duty Rating                    | CONT                                                                              |

## Part detail

|              |              |
|--------------|--------------|
| Revision     | C            |
| Type         | AC           |
| Mech. spec.  |              |
| Base         |              |
| Status       | PRD/A        |
| Elec. spec.  | 06WGW431     |
| Layout       | 06LY-000-044 |
| Eff. date    | 02-28-2024   |
| CD Diagram   | CD0005       |
| Poles        | 02           |
| Leads        | 9#16         |
| Proprietary  | False        |
| Created date | 03-21-2019   |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 88.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 4.2 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | L                          |
| Lifting Lugs                  | Standard Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 5400 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0640M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 2                          |
| Overall Length                | 17.56 IN                   |
| Power Factor                  | 96                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS NON-COMPLIANT         |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 3500 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |

|                   |      |
|-------------------|------|
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

## Nameplate

| NP1401XPSLEV |                  |        |   |              |                     |            |      |      |         |          |    |    |  |
|--------------|------------------|--------|---|--------------|---------------------|------------|------|------|---------|----------|----|----|--|
| NO.          |                  |        |   |              |                     | CC         | 010A |      |         |          |    |    |  |
| S/N          |                  |        |   |              |                     | TEMP CODE  |      |      | T3C     |          |    |    |  |
| SPEC.        | 06-0000-0055     |        |   |              |                     | INV.TYPE   |      |      | PWM     |          |    |    |  |
| CAT.NO.      | DRX18524T        |        |   |              |                     | C HP FR    |      | 60   | C HP TO |          | 90 |    |  |
| HP           | 5//3             |        |   |              |                     | CT HZ FROM |      |      | 6       | CT HZ TO |    | 60 |  |
| VOLTS        | 230/460//190/380 |        |   |              |                     | VT HZ FROM |      |      | 6       | VT HZ TO |    | 60 |  |
| AMPS         | 11/5.5//8.4/4.2  |        |   |              | MAG CUR             | 3/1.5      |      |      |         |          |    |    |  |
| RPM          | 3500//2900       |        |   |              | MX RPM              | 5400       |      |      |         |          |    |    |  |
| HZ           | 60//50           | PH     | 3 | CL           | F                   | NOM.EFF.   |      | 88.5 |         |          |    |    |  |
| SER.F.       | 1.00             | DES    | A | SL HZ        | 1.7                 | WK2        | 0.18 |      |         |          |    |    |  |
| FRAME        | 184T             | RATING |   | 40C AMB-CONT |                     |            |      |      |         |          |    |    |  |
|              | 55C AMB @1.0SF   |        |   |              |                     |            |      |      |         |          |    |    |  |
|              | 1.15SF SINEWAVE  |        |   |              | NEMA MG-1 PT 5,IP55 |            |      |      |         |          |    |    |  |
|              |                  |        |   |              |                     |            |      |      |         |          |    |    |  |

**AC Induction Motor Performance Data**

Record # 72833

Typical performance - not guaranteed values

| Winding: 06WGW431-R028 |        |                  | Type: 0640M                              |                     | Enclosure: XPFC           |            |              |
|------------------------|--------|------------------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |        |                  | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |        | 5//3             | Full Load Torque                         |                     | 7.61 LB-FT                |            |              |
| Volts                  |        | 230/460//190/380 | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |        | 11/5.5//8.4/4.2  | Breakdown Torque                         |                     | 35.64 LB-FT               |            |              |
| R.P.M.                 |        | 3500//2900       | Pull-up Torque                           |                     | 26.7 LB-FT                |            |              |
| Hz                     | 60//50 | Phase            | 3                                        | Locked-rotor Torque |                           | 30.8 LB-FT |              |
| NEMA Design Code       |        | A                | KVA Code                                 | L                   | Starting Current          |            | 62.3 A       |
| Service Factor (S.F.)  |        |                  | 1                                        | No-load Current     |                           | 1.55 A     |              |
| NEMA Nom. Eff.         |        | 88.5             | Power Factor                             | 96                  | Line-line Res. @ 25°C     |            | 2.12 Ω       |
| Rating - Duty          |        | 40C              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 49°C         |
|                        |        |                  |                                          |                     | Locked-rotor Power Factor |            | 43           |
|                        |        |                  |                                          |                     | Rotor inertia             |            | 0.179 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 75   | 88   | 95   | 96   | 96   | 93   |
| Efficiency      | 75.1 | 83.3 | 85.8 | 86.2 | 85.7 | 84.8 |
| Speed           | 3562 | 3533 | 3503 | 3470 | 3435 | 3398 |
| Line amperes    | 2.14 | 3.27 | 4.38 | 5.7  | 7.1  | 8.72 |

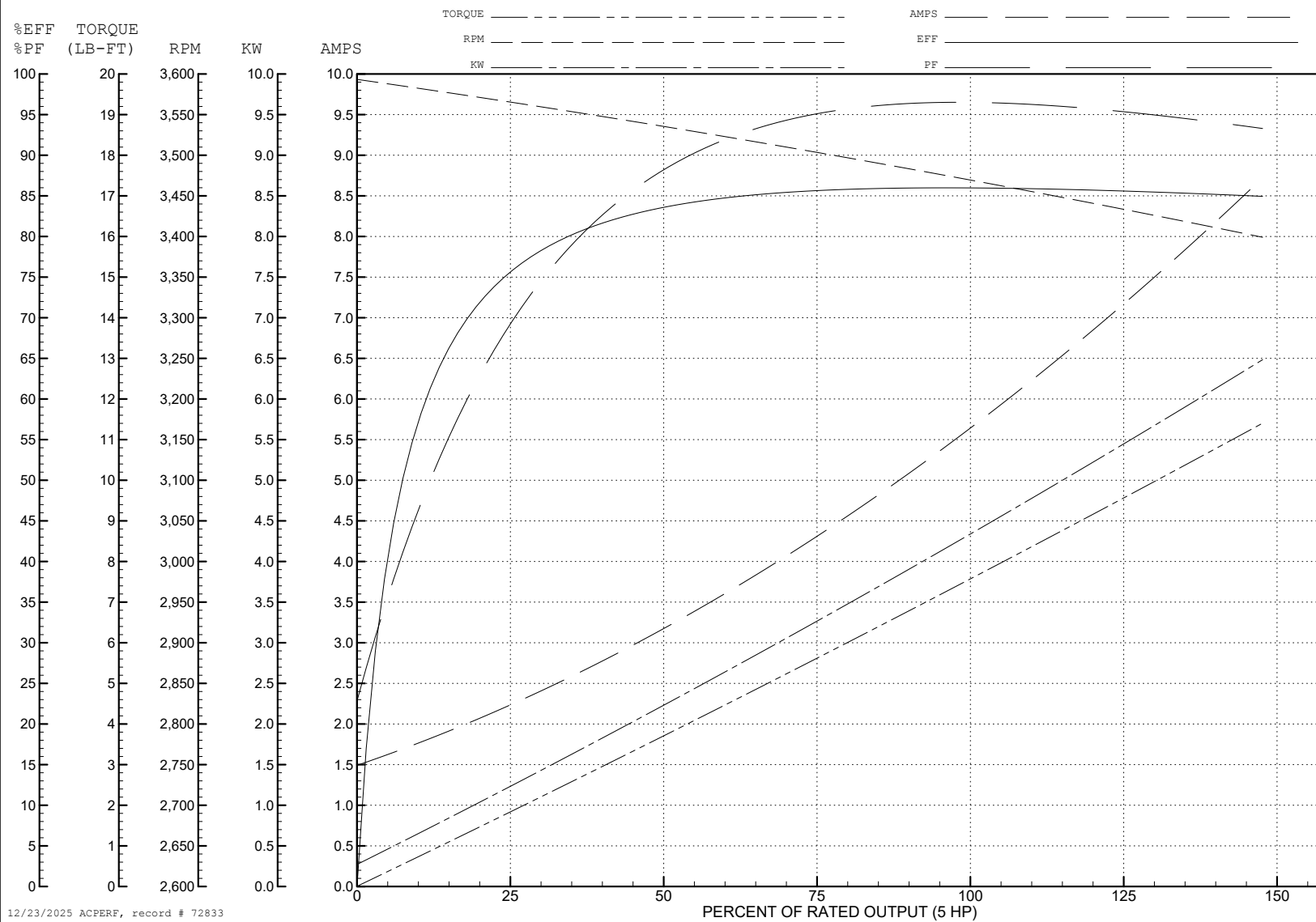
ABB Motors and Mechanical Inc.

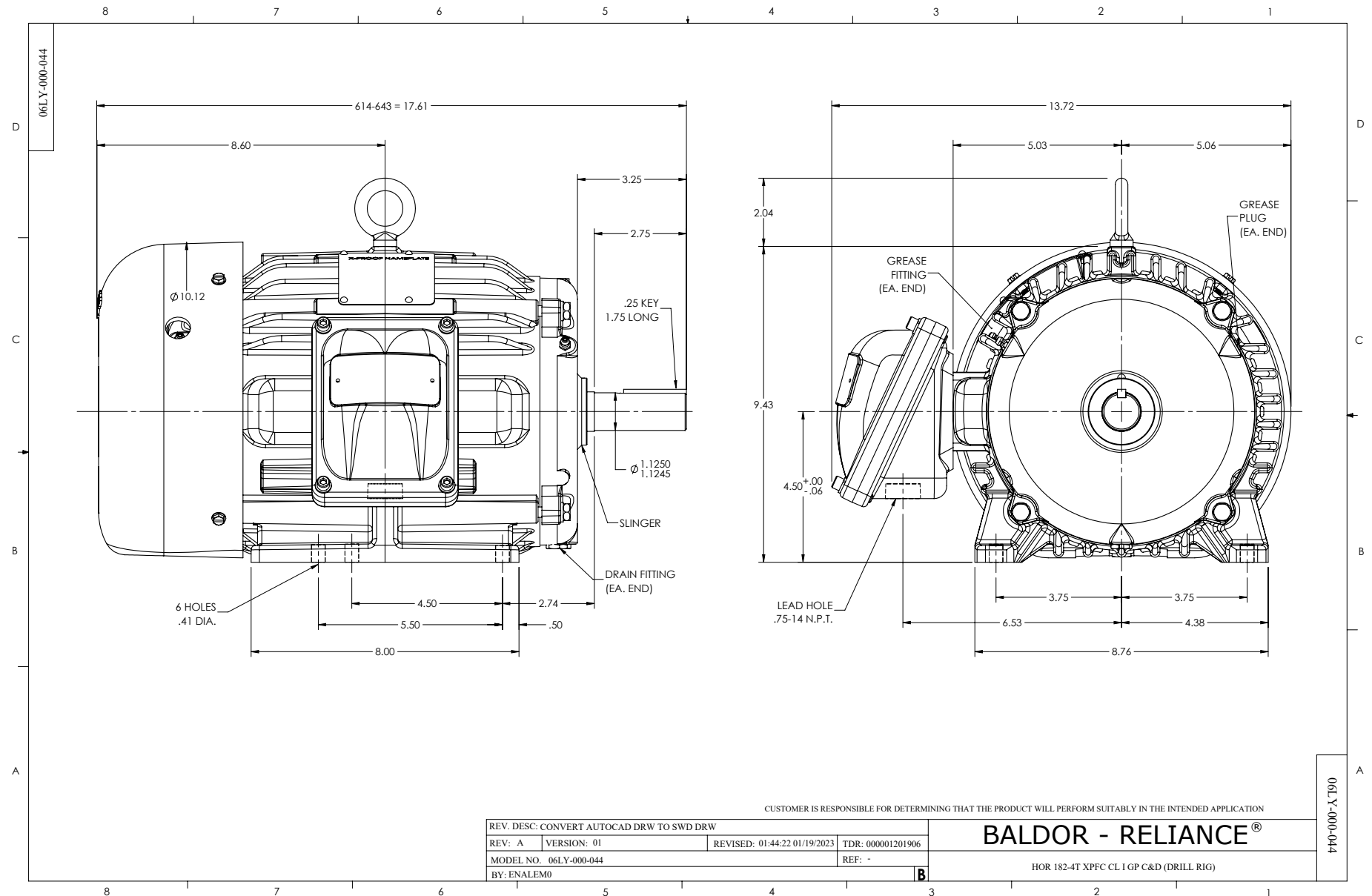
WINDING # 06WGW431

Typical performance - not guaranteed values.

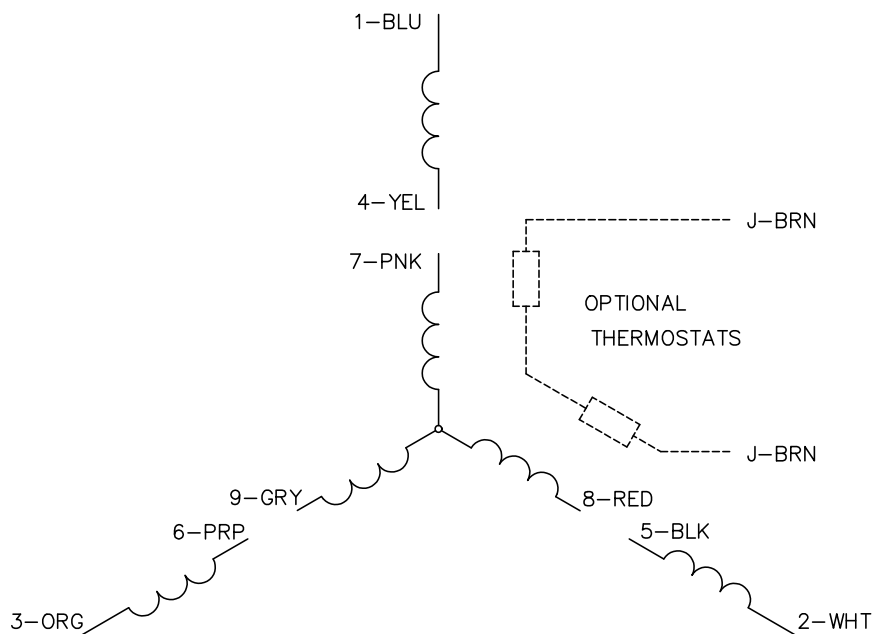
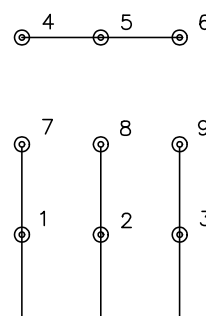
5 HP 3 PH 60 HZ 3470 RPM 460 V 0640M

TORQUES (LB-FT): PO=35.64 PU=26.7 LR=30.8 LRA=62.3

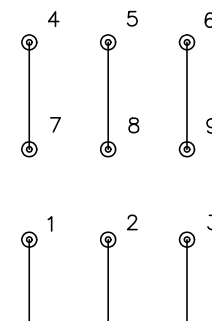




CD0005

LOW VOLTAGE  
(2Y)

LINE

HIGH VOLTAGE  
(1Y)

LINE

## 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: E

BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

S00000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005