ABB BALDOR RELIANCE

# Customer information packet

## EBM3707Y-DI

5HP, 1750RPM, 3PH, 60HZ, 215, 3644M, TEFC, F1, B
Class - None
Division - Not Applicable

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11/15/2026 10:51:19 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | 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** | 14.200 A @ 208.0 V |
| | 6.900 A @ 460.0 V |
| | 13.800 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Brake Mounting |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | H |
| **Type** | AC |
| **Mech. spec.** | 36Q910 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGR639 |
| **Layout** | 36LYQ910 |
| **Eff. date** | 05-10-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 09-29-2016 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.9 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3644M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 22.84 IN |
| **Power Factor** | 76 |
| **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** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1750 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** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1259L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EBM3707Y-DI | | | | | | | | | |
| **SPEC.** | 36Q910R639G1 | | | | | | | | | |
| **HP** | 5 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMP** | 13.8/6.9 | | | | | | | | | |
| **RPM** | 1750 | | | | | | | | | |
| **FRAME** | 215 | **HZ** | 60 | | | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | A | **CL** | F | | | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 76 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 53352
Typical performance - not guaranteed values

| **Winding:** 36WGR639-R004 | **Type:** 3644M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 14.9 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13.8/6.9 | **Breakdown Torque** | 57 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 34.6 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 38.3 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | K | **Starting Current** | 53.8 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.62 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 76 | **Line-line Res. @ 25ºC** | 2.12 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 71°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 85°C |
| | | | | **Rotor inertia** | 0.41 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 36 | 57 | 69 | 76 | 81 | 82 | 79 |
| **Efficiency** | 83.9 | 89.2 | 90.3 | 89.7 | 89 | 87.3 | 89.3 |
| **Speed** | 1790 | 1778 | 1765 | 1753 | 1737 | 1720 | 1743 |
| **Line amperes** | 3.91 | 4.62 | 5.69 | 6.86 | 8.09 | 9.73 | 7.6 |

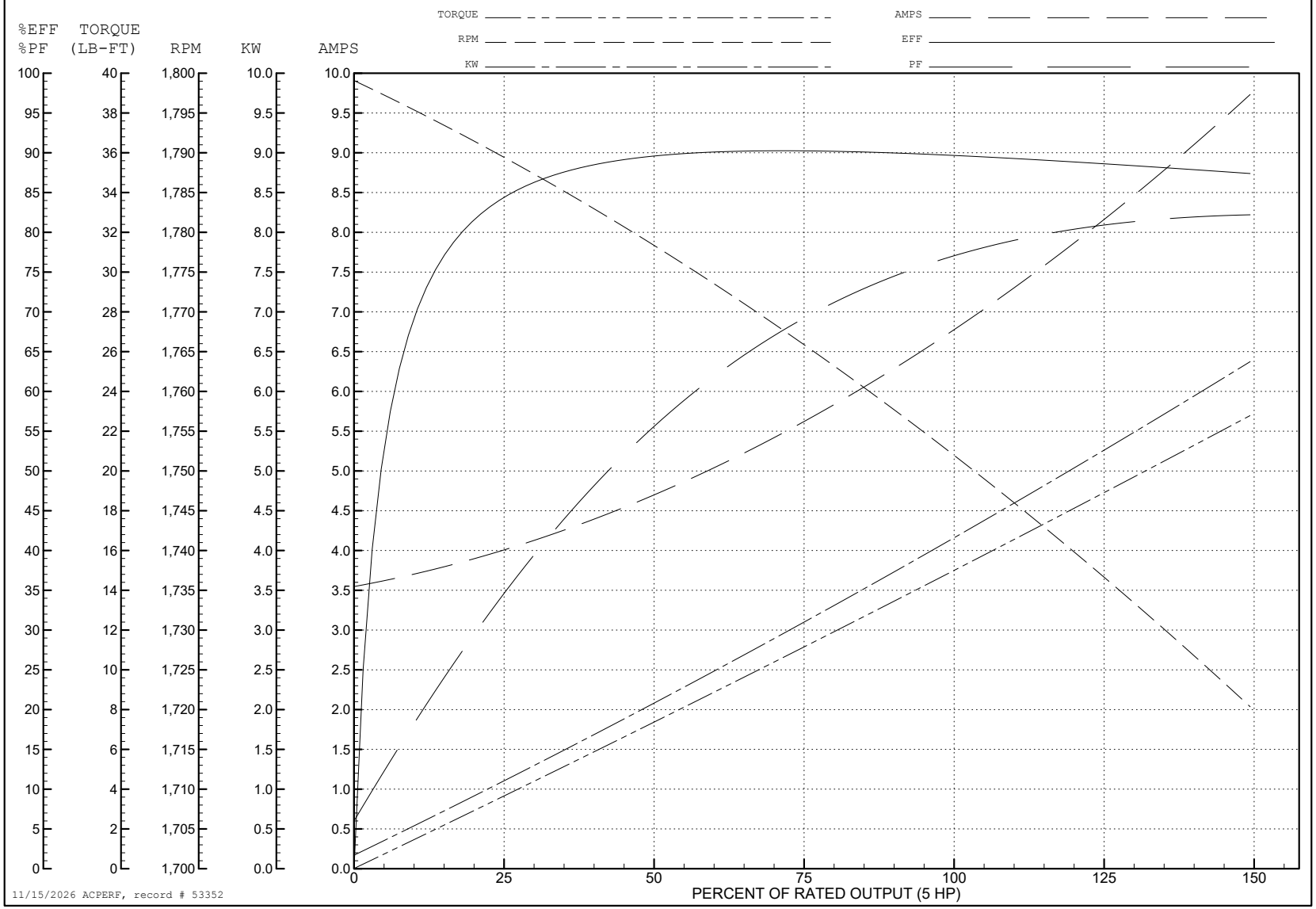
ABB Motors and Mechanical Inc.

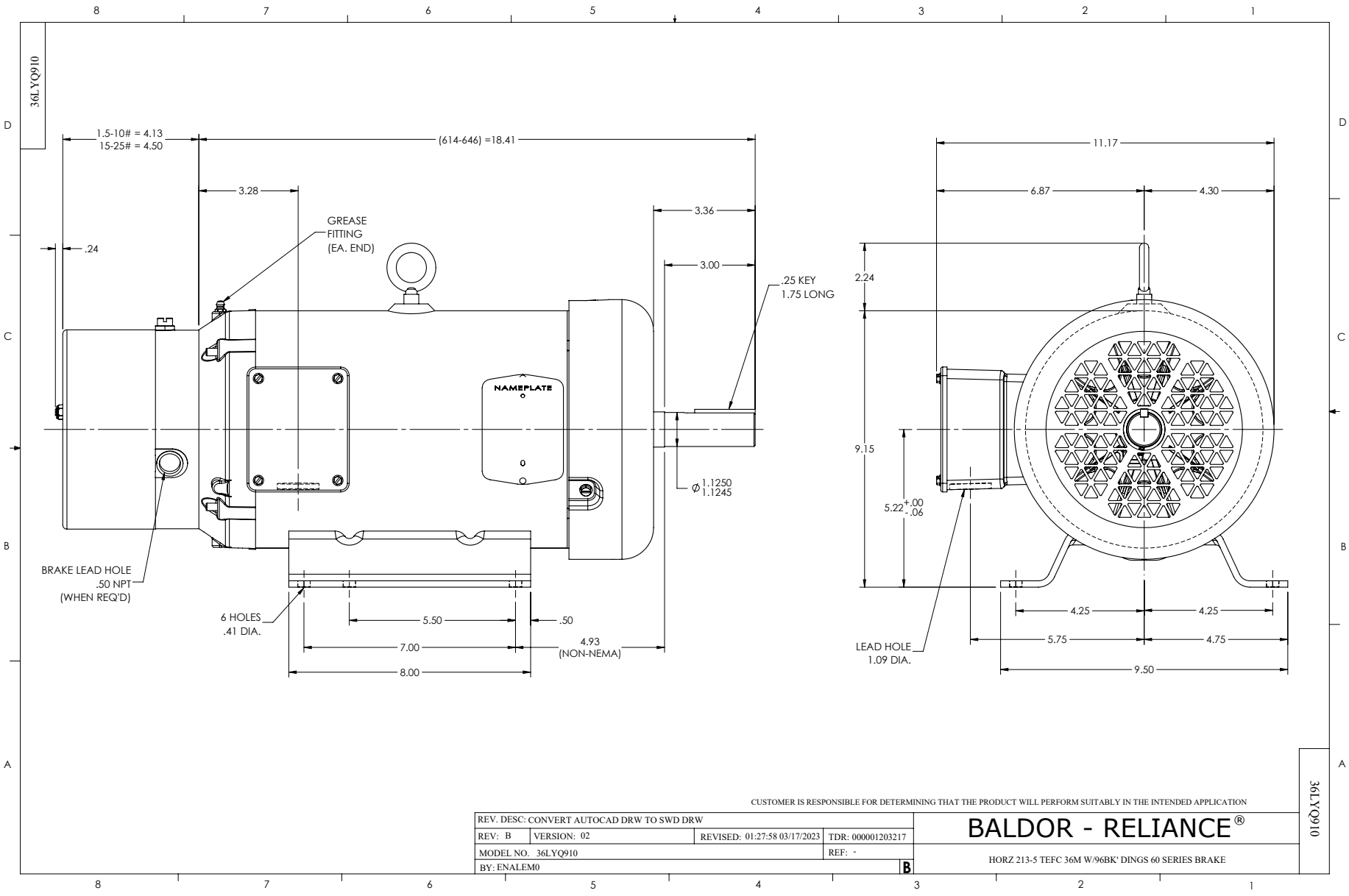
WINDING # 36WGR639

5 HP 3 PH 60 HZ 1750 RPM 460 V 3644M

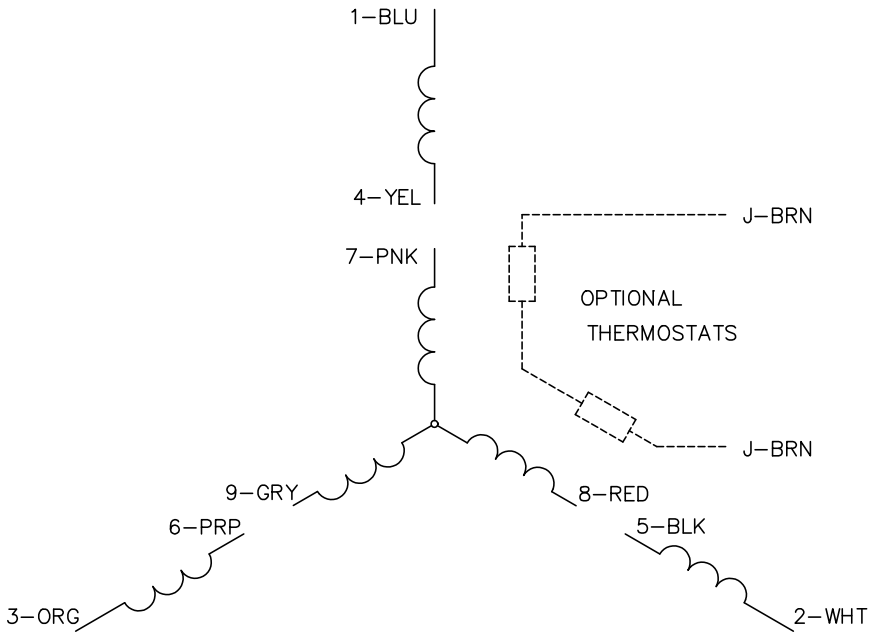
Typical performance - not guaranteed values.

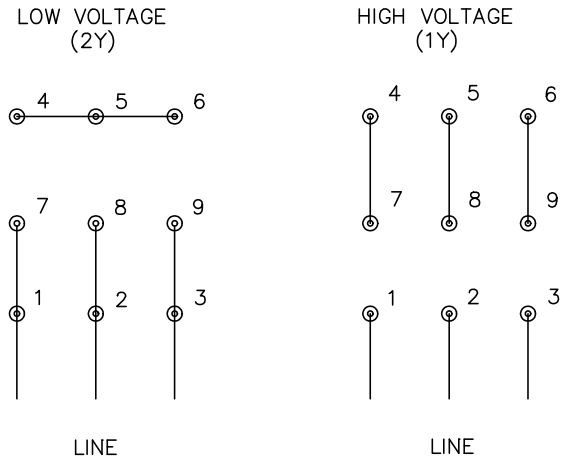
TORQUES(LB-FT): PO=57 PU=34.6 LR=38.3 LRA=53.8




36LYQ910
1.5-10# = 4.13
15-25# = 4.50
(614-646) =18.41
3.28
3.36
3.00
.24
GREASE FITTING (EA. END)
.25 KEY
1.75 LONG
NAMEPLATE
Ø 1.1250
1.1245
BRAKE LEAD HOLE
.50 NPT
(WHEN REQ'D)
6 HOLES
.41 DIA.
5.50
.50
7.00
4.93
(NON-NEMA)
8.00
11.17
6.87
4.30
2.24
9.15
5.22 +.00 -.06
4.25
4.25
5.75
4.75
9.50
LEAD HOLE
1.09 DIA.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 01:27:58 03/17/2023
TDR: 000001203217
MODEL NO. 36LYQ910
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5 TEFC 36M W/96BK' DINGS 60 SERIES BRAKE
36LYQ910

CD0005




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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |