ABB BALDOR RELIANCE

# Customer information packet

## VXT3202T

20HP, 3520RPM, 3PH, 60HZ, 256TC, 0936M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 256TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 20.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 50.000 A @ 208.0 V |
| | 46.000 A @ 230.0 V |
| | 23.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGZ601 |
| **Layout** | 09LY-001-011 |
| **Eff. date** | 06-28-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#12 |
| **Proprietary** | False |
| **Created date** | 12-17-2020 |

| | |
|---|---|
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 23.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0936M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 23.86 IN |
| **Power Factor** | 89 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3520 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**

| NP4163L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VXT3202T | | | | | | | **I.P.** | 54 | | |
| **SPEC.** | 09-0000-2821 | | | | | | | **ENCL** | TEFC | | |
| **FRAME** | 256TC | | | **H.P.** | 20 | | | | | | |
| **VOLTS** | 230/460 | | | **P.F.** | 89 | | | | | | |
| **F.L. AMPS** | 46/23 | | | | **RATING** | 40C AMB-CONT | | | | | |
| **R.P.M.** | 3520 | | | | | | | | | | |
| **HZ.** | 60 | **PH.** | 3 | **CLASS** | F | | | | | | |
| **SER.F.** | 1.15 | **DES.** | A | **SL HZ** | 1.3 | | | | | | |
| **NEMA NOM. EFF.** | 91 | **WK2** | 0.92 | | | | | | | | |
| **DE** | 6309 | **ODE** | 6208 | | | | | | | | |
| **MAG. CUR.** | 14.4/7.2 | | | | | | | | | | |
| **INV TYPE** | PWM | **CHP** | 60 | **TO** | 90 | **T. CODE** | T3 | | | | |
| **CT** | 6 | **TO** | 60 | **VT** | 6 | **TO** | 60 | | | | |
| **CC** | 010A | **SN** | | | | | | | | | |
| | USABLE AT 50 HZ 15HP 190/380V 42/21A | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 32051
Typical performance - not guaranteed values

| **Winding:** 09WGZ601-R006 | **Type:** 0936M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 20 | **Full Load Torque** | 29.6 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 46/23 | **Breakdown Torque** | 111 LB-FT |
| **R.P.M.** | | | 3520 | **Pull-up Torque** | 39.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 49.6 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | H | **Starting Current** | 161 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 7.17 A |
| **NEMA Nom. Eff.** | 91 | **Power Factor** | 89 | **Line-line Res. @ 25ºC** | 0.47592 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 76°C |
| | | | | **Locked-rotor Power Factor** | 29 |
| | | | | **Rotor inertia** | 0.92 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 20 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 58 | 78 | 86 | 89 | 90 | 90 |
| **Efficiency** | 88.9 | 92.2 | 92.4 | 91.7 | 90.7 | 89.2 |
| **Speed** | 3579.6 | 3561.5 | 3541.3 | 3519.5 | 3495.4 | 3467.8 |
| **Line amperes** | 9 | 13 | 17.7 | 22.9 | 28.6 | 35 |

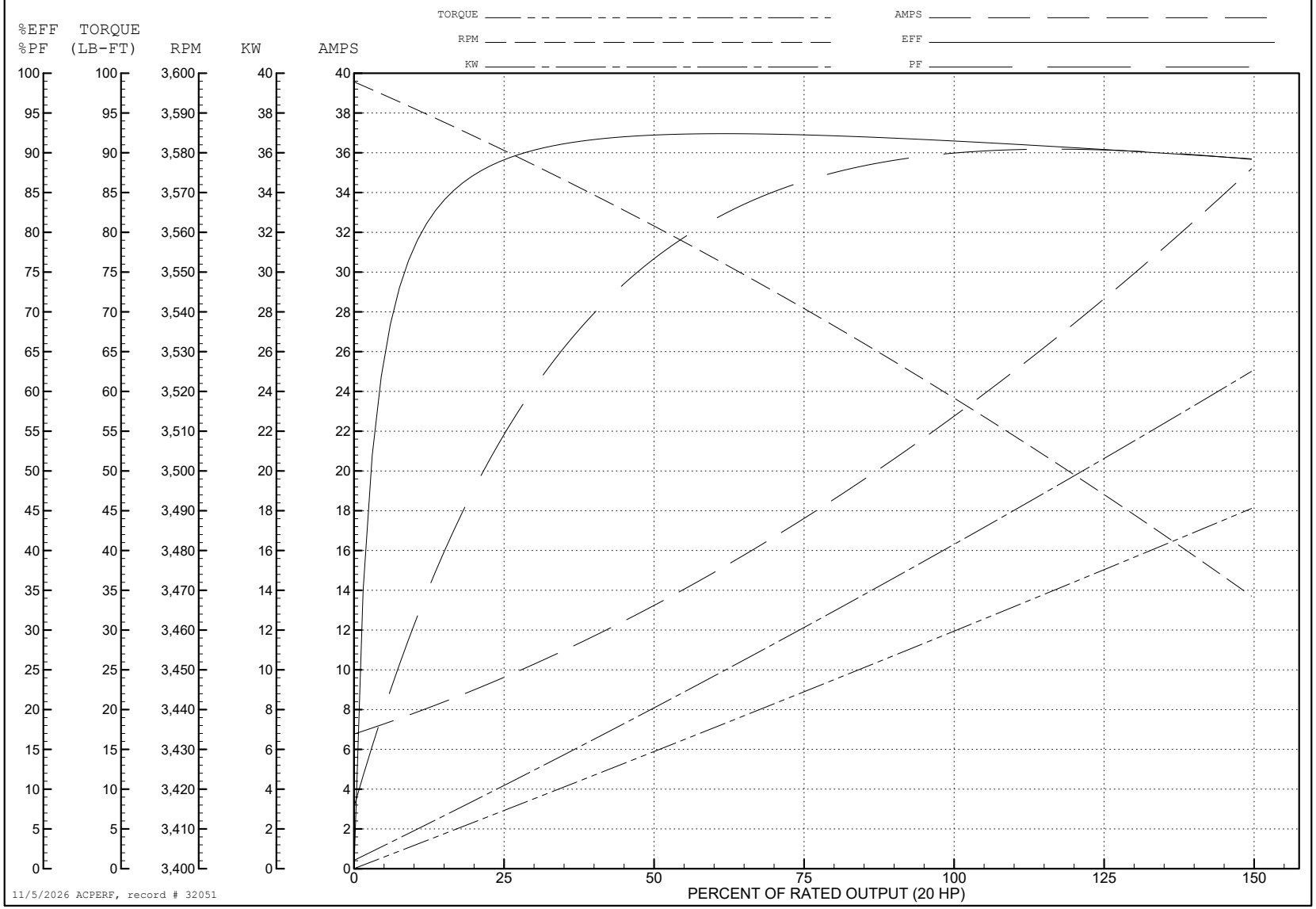
ABB Motors and Mechanical Inc.

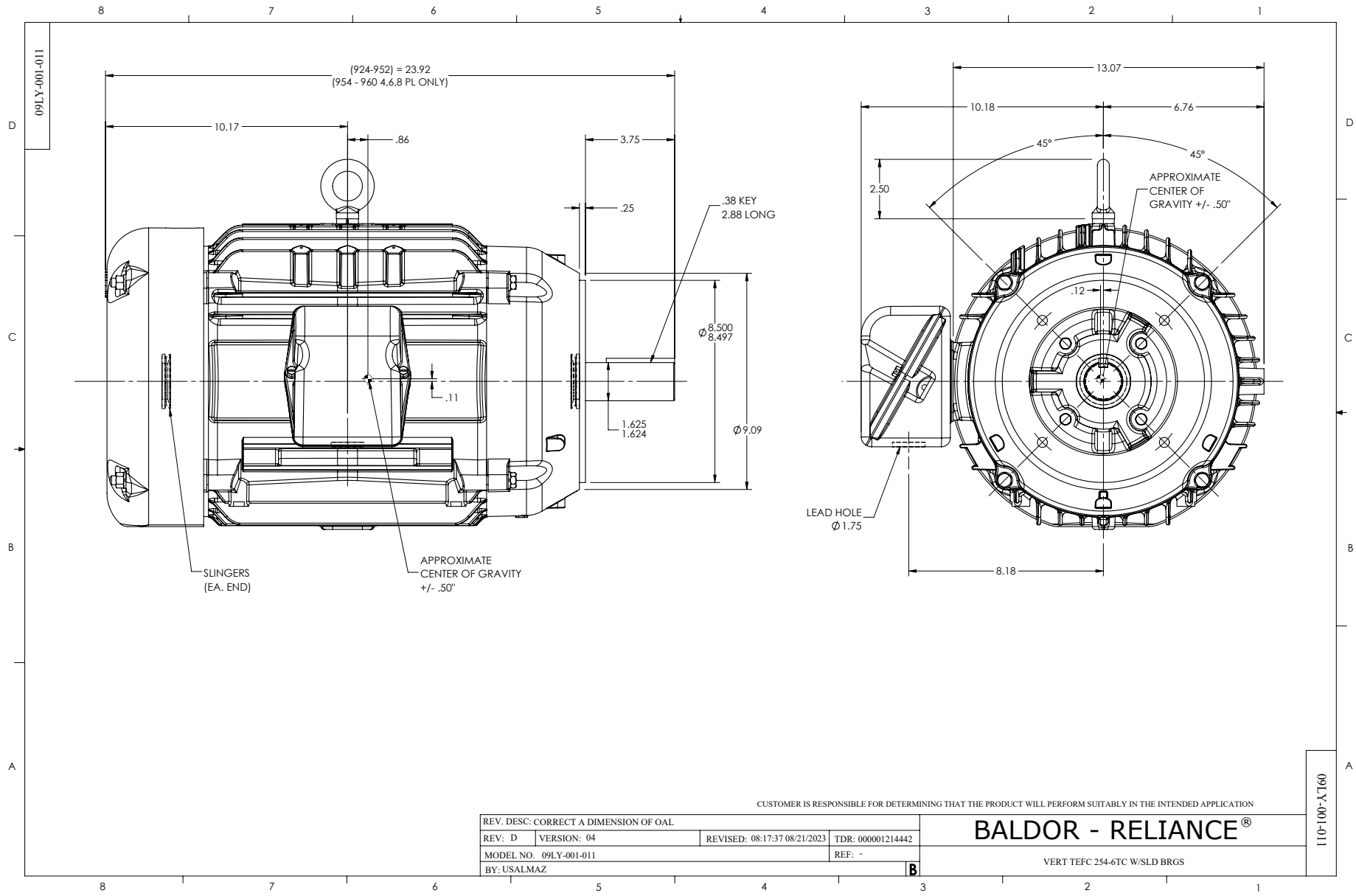
WINDING # 09WGZ601

20 HP 3 PH 60 HZ 3520 RPM 460 V 0936M

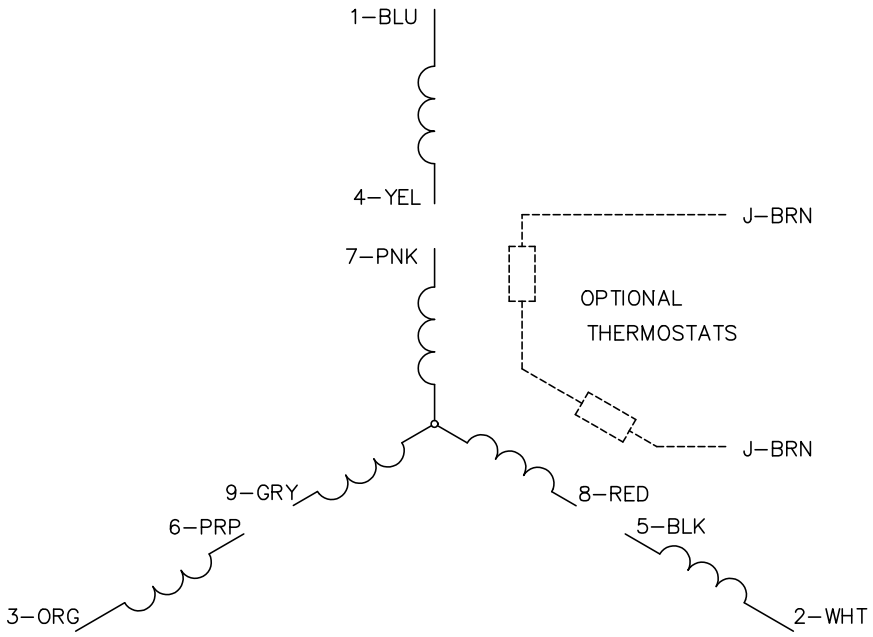
Typical performance - not guaranteed values.

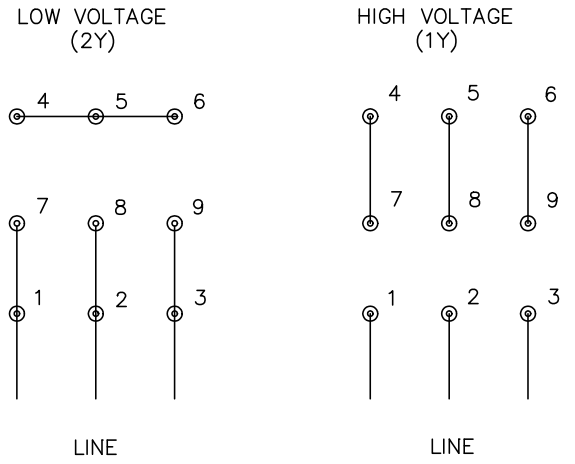
TORQUES(LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161




(924-952) = 23.92
(954 - 960 4,6,8 PL ONLY)
10.17
.86
3.75
.25
.38 KEY
2.88 LONG
Ø 8.500
8.497
.11
1.625
1.624
Ø 9.09
SLINGERS
(EA. END)
APPROXIMATE
CENTER OF GRAVITY
+/- .50"
13.07
10.18
6.76
45°
45°
2.50
APPROXIMATE
CENTER OF
GRAVITY +/- .50"
.12
LEAD HOLE
Ø 1.75
8.18
09LY-001-011
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT A DIMENSION OF OAL
REV: D
VERSION: 04
REVISED: 08:17:37 08/21/2023
TDR: 000001214442
MODEL NO. 09LY-001-011
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VERT TEFC 254-6TC W/SLD BRGS

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 |