ABB BALDOR RELIANCE

# Customer information packet

## SPM31104

.333HP, 1740RPM, 3PH, 60HZ, 56H, 3416M, ODP, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | ODP |
| **Frame** | 56H |
| **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** | .333 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | WEEE |
| | C UR US |
| **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** | .520 A @ 460.0 V |
| | 1.040 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 77.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 0.5 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | AC |
| **Mech. spec.** | 34T123 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR772 |
| **Layout** | 34LYT123 |
| **Eff. date** | 10-29-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 09-13-2023 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3416M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.75 IN |
| **Power Factor** | 75 |
| **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** | 1.35 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1740 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**

| NP4558A02LL | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | SPM31104 | | | **WGT** | 24 | **LBS** | | | | | |
| **SER #** | | | | | **ENCL** | ODP | | | | | |
| **SPEC** | 34T123R772 | | | | **CC** | | | **IP** | 22 | | |
| **HP** | .333 | | | | | | **NEMA NOM. EFF** | | | 77 | |
| **VOLTS** | 230/460 | | | | **PF** | 75 | | | | | |
| **AMPS** | 1.04/.52 | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **RPM** | 1740 | | | | **PH** | 3 | **DES** | B | | | |
| **FRAME** | 56H | **HZ** | 60 | | **CODE** | L | **CLASS** | F | | | |
| **SER.F.** | 1.35 | **SF AMP** | 1.3/.65 | | | | | | | | |
| **DE** | 6203 | | **ODE** | 6203 | | | | | | | |
| **GREASE** | POLYREX EM | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | **QR** | | | | | |
| **YR** | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 100724
Preliminary Data Sheet

| **Winding:** 34WGR772-R003 | **Type:** 3416M | **Enclosure:** ODP |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .333 | **Full Load Torque** | 1.01 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.04/.52 | **Breakdown Torque** | 4.1 LB-FT |
| **R.P.M.** | | | 1740 | **Pull-up Torque** | 2.3 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 3.1 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 3.8 A |
| **Service Factor (S.F.)** | | | 1.35 | **No-load Current** | 0.41 A |
| **NEMA Nom. Eff.** | 77 | **Power Factor** | 75 | **Line-line Res. @ 25ºC** | 56.1 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 24°C |
| **S.F. Amps** | | | 1.3/.65 | **Temp. Rise @ S.F. Load** | 39°C |
| | | | | **Locked-rotor Power Factor** | 62.8 |
| | | | | **Rotor inertia** | 0.0381 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 0.33 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 48 | 62 | 71 | 78 | 82 | 80 |
| **Efficiency** | 61.3 | 72.9 | 76.7 | 78 | 77.7 | 76.3 | 77.1 |
| **Speed** | 1780 | 1765 | 1747 | 1728 | 1706 | 1681 | 1696 |
| **Line amperes** | 0.41 | 0.44 | 0.49 | 0.56 | 0.64 | 0.75 | 0.684 |

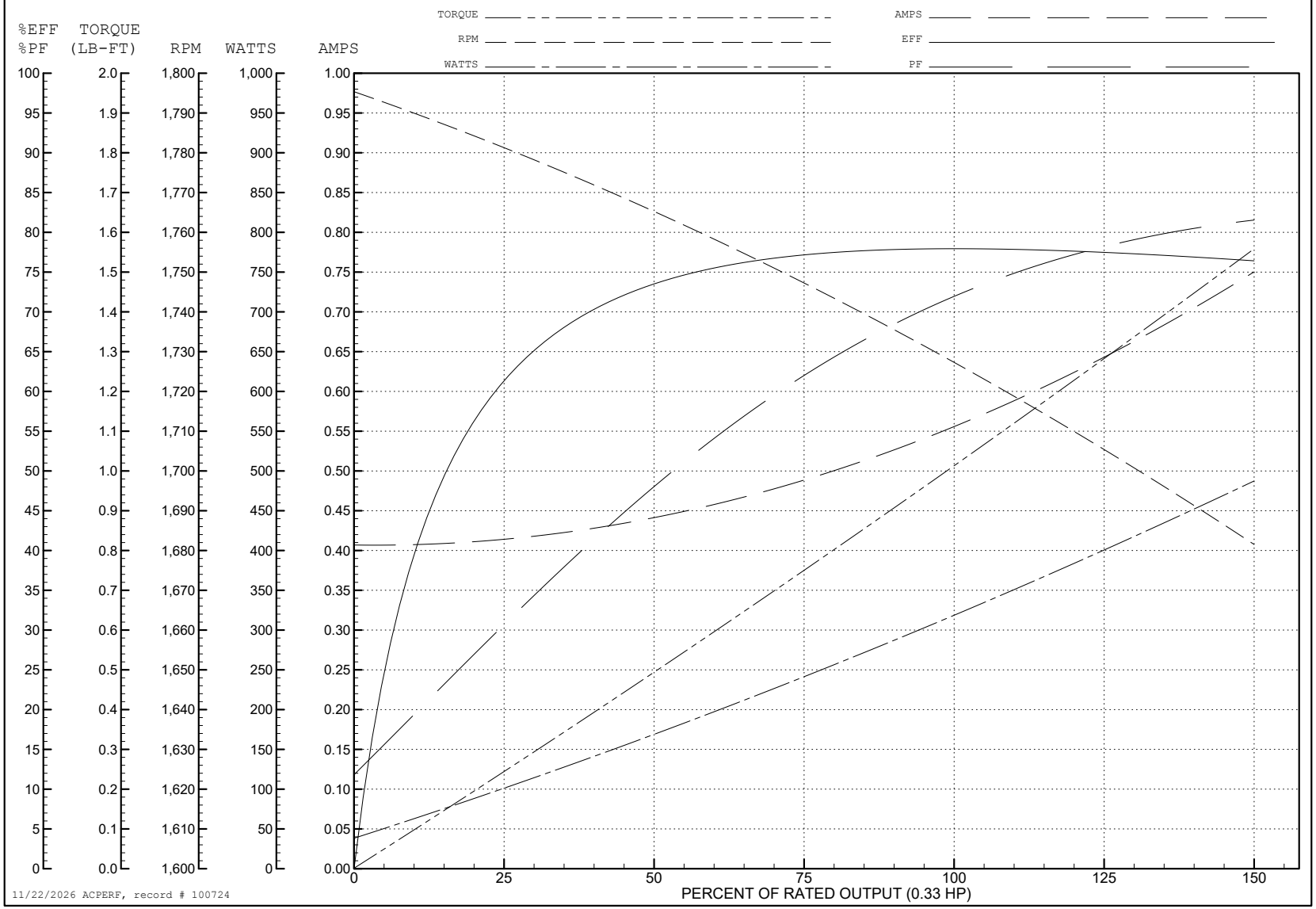
ABB Motors and Mechanical Inc.

WINDING # 34WGR772

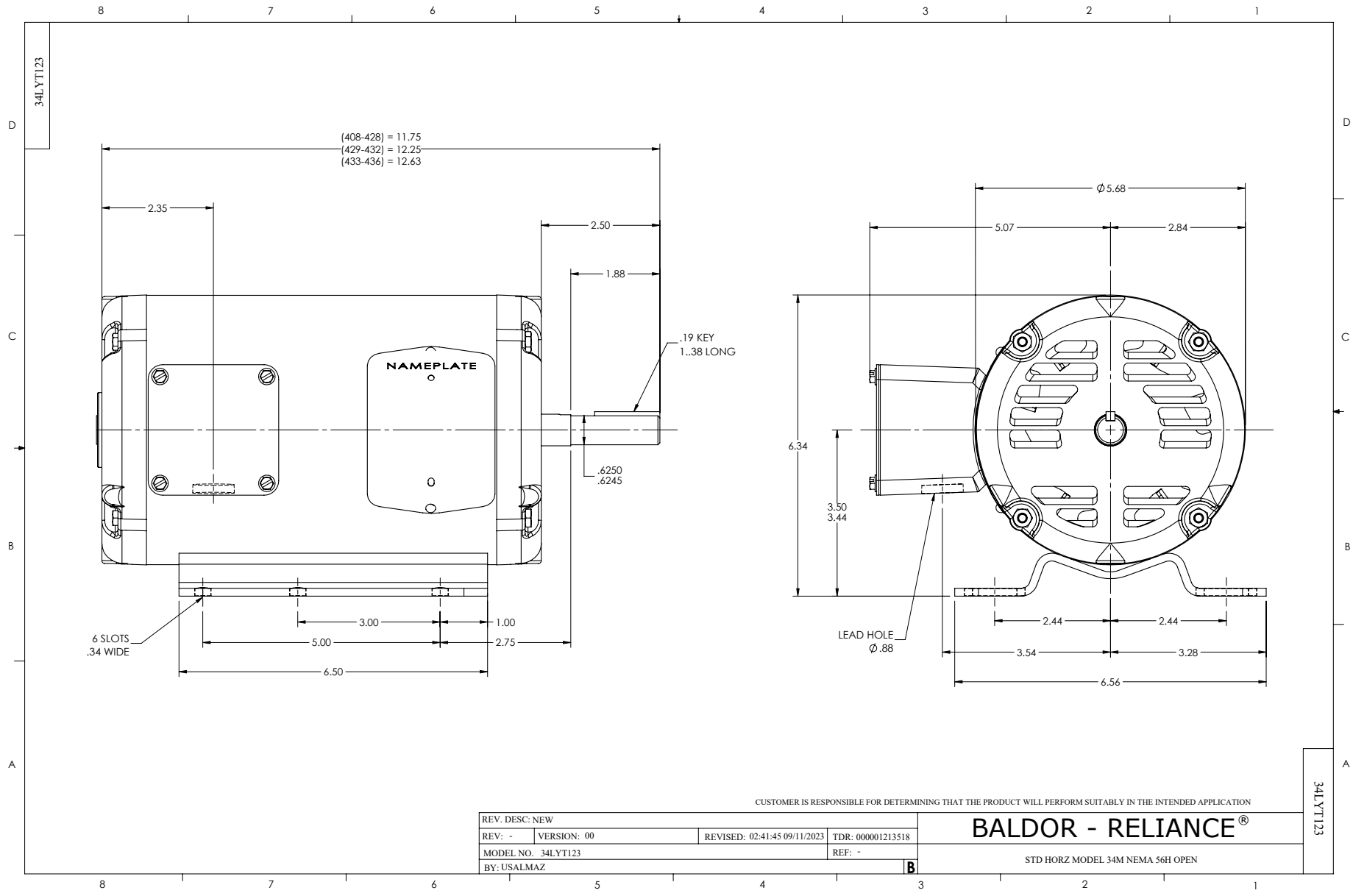
0.33 HP 3 PH 60 HZ 1740 RPM 460 V 3416M

Typical performance - not guaranteed values.

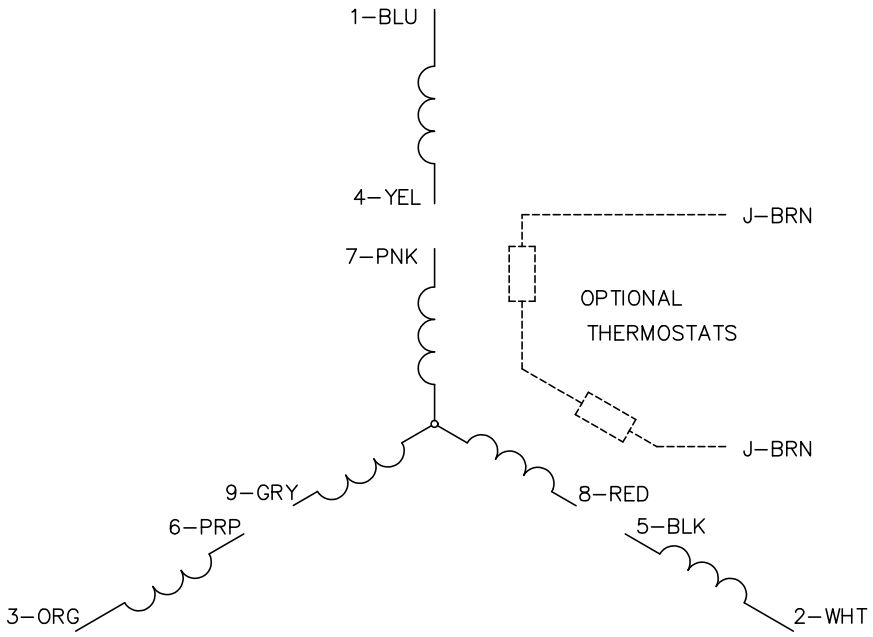
TORQUES(LB-FT): PO=4.1 PU=2.3 LR=3.1 LRA=3.8

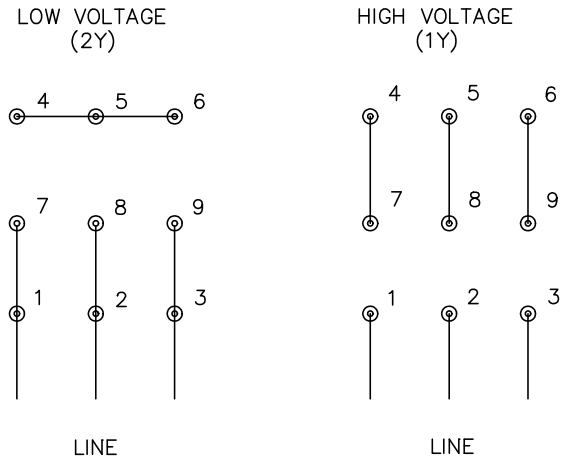



11/22/2026 ACPERF, record # 100724


34LYT123
(408-428) = 11.75
(429-432) = 12.25
(433-436) = 12.63
2.35
2.50
1.88
.19 KEY
1..38 LONG
NAMEPLATE
.6250
.6245
6 SLOTS
.34 WIDE
3.00
1.00
5.00
2.75
6.50
Ø5.68
5.07
2.84
6.34
3.50
3.44
LEAD HOLE
Ø.88
2.44
2.44
3.54
3.28
6.56
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 02:41:45 09/11/2023 TDR: 000001213518
MODEL NO. 34LYT123 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
STD HORZ MODEL 34M NEMA 56H OPEN
34LYT123

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 |