# Customer information packet

EM3616T

7.5HP, 3488RPM, 3PH, 60HZ, 184T, 3640M, TEFC, F
Class - None
Division - Not Applicable

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11/5/2026 2:00:24 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184T |
| **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** | 7.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| **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** | 22.600 A @ 230.0 V |
| | 11.300 A @ 460.0 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 Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 11.3 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | AC |
| **Mech. spec.** | 36G271 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGZ654 |
| **Layout** | 36LYG271 |
| **Eff. date** | 09-14-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 11-07-2025 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **KVA Code** | L |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3640M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 18.04 IN |
| **Power Factor** | 86 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3488 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**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM3616T | | | | | | | | | |
| **SPEC** | 36G271Z654 | | | | | | | | | |
| **HP** | 7.5 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 17.6/8.8 | | | | | | | | | |
| **RPM** | 3490 | | | | | | | | | |
| **FRAME** | 184T | **HZ** | 60 | **PH** | 3 | | | | | |
| **SF** | 1.15 | **CODE** | L | **DES** | A | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 86 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50HZ 7.5HP 190/380V 21/10.5A | | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 118144
Typical performance - not guaranteed values

| **Winding:** 36WGZ654-R003 | **Type:** 3640M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 11.39 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 17.6/8.8 | **Breakdown Torque** | 76.7 LB-FT |
| **R.P.M.** | | | 3490 | **Pull-up Torque** | 45.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 57.2 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | L | **Starting Current** | 109 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.6 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 86 | **Line-line Res. @ 25ºC** | 1.4142 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 75°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 93°C |
| | | | | **Locked-rotor Power Factor** | 50 |
| | | | | **Rotor inertia** | 0.178 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 51 | 73 | 83 | 89 | 91 | 92 | 90 |
| **Efficiency** | 84.8 | 89.7 | 90.4 | 90 | 88.9 | 87.5 | 89.3 |
| **Speed** | 3571.6 | 3545.5 | 3517.7 | 3488.2 | 3456.6 | 3423.4 | 3469 |
| **Line amperes** | 4.17 | 5.41 | 7.06 | 8.89 | 10.9 | 13 | 10.1 |

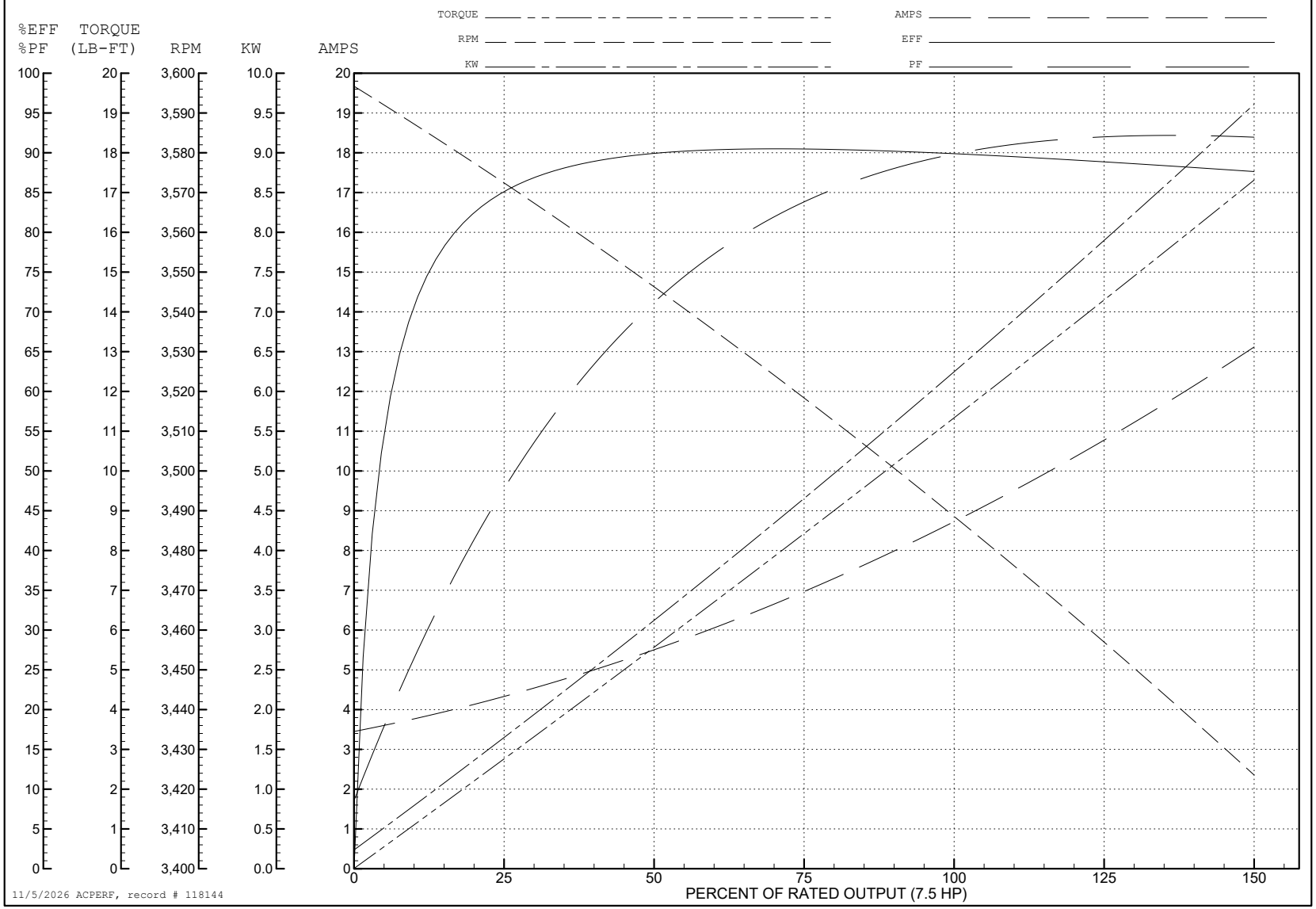
ABB Motors and Mechanical Inc.

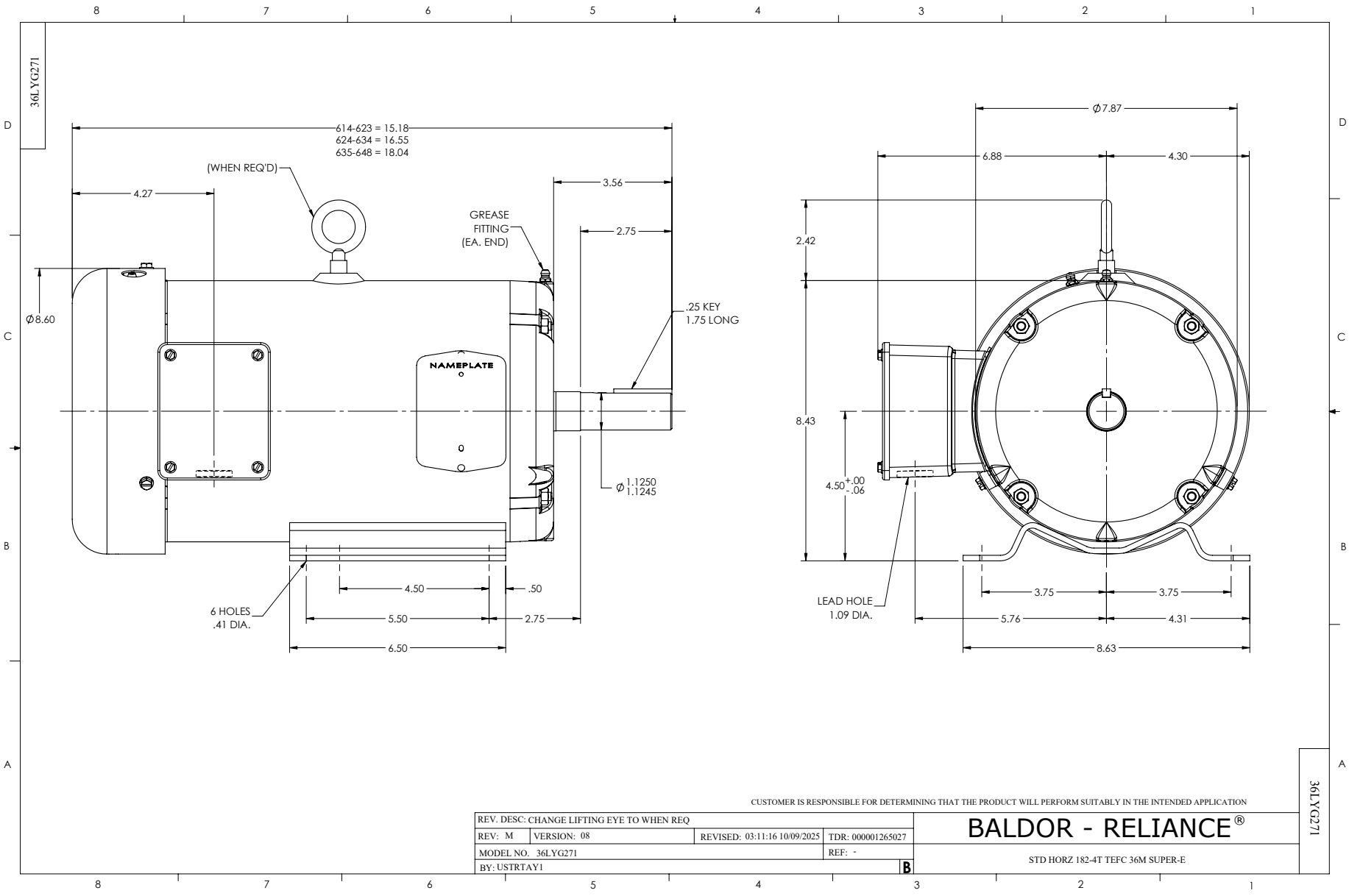
WINDING # 36WGZ654

7.5 HP 3 PH 60 HZ 3490 RPM 460 V 3640M

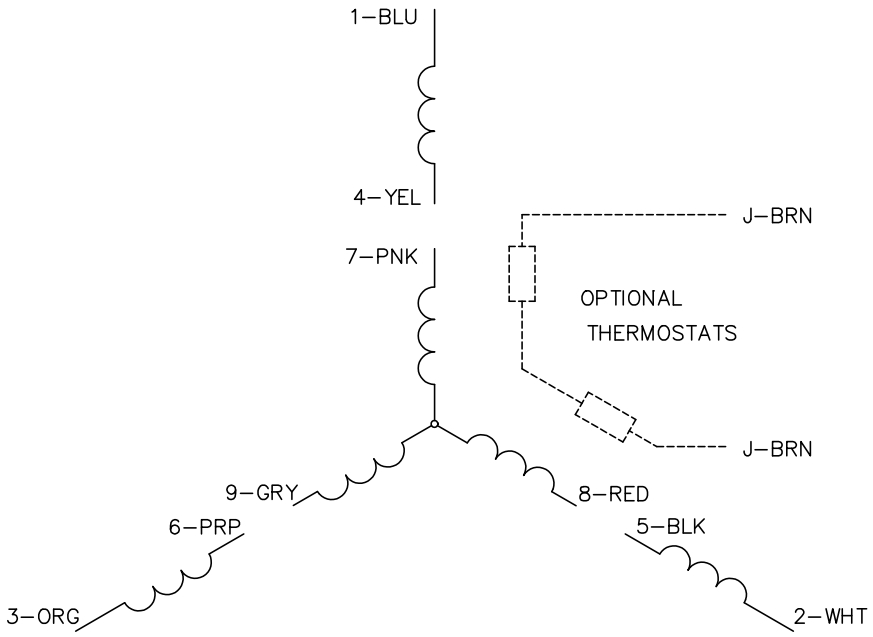
Typical performance - not guaranteed values.

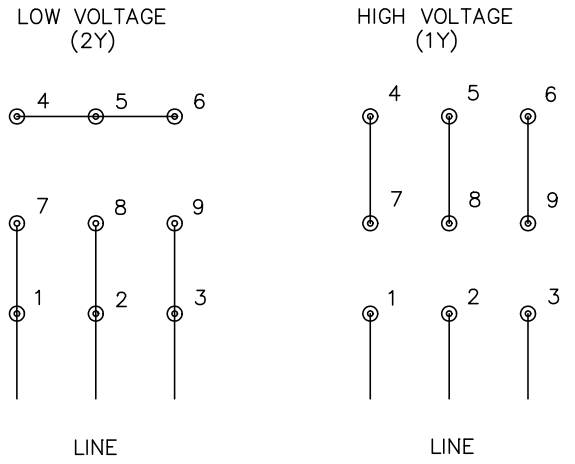
TORQUES(LB-FT): PO=76.7 PU=45.1 LR=57.2 LRA=109




36LYG271
614-623 = 15.18
624-634 = 16.55
635-648 = 18.04
(WHEN REQ'D)
4.27
3.56
2.75
GREASE FITTING (EA. END)
Ø8.60
.25 KEY 1.75 LONG
NAMEPLATE
Ø 1.1250 1.1245
4.50
.50
5.50
2.75
6.50
6 HOLES .41 DIA.
Ø7.87
6.88
4.30
2.42
8.43
4.50 +.00 -.06
LEAD HOLE 1.09 DIA.
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE LIFTING EYE TO WHEN REQ
REV: M
VERSION: 08
REVISED: 03:11:16 10/09/2025
TDR: 000001265027
MODEL NO. 36LYG271
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M SUPER-E
36LYG271

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 |