ABB BALDOR RELIANCE

# Customer information packet

## CESSWDM3615T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3646M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184TC |
| **Frame Material** | Stainless 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** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **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** | 13.000 A @ 230.0 V |
| | 6.500 A @ 460.0 V |
| **Design Code** | B |
| **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** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |

## Part Detail

| | |
|---|---|
| **Revision** | AB |
| **Type** | AC |
| **Mech. spec.** | 36L738 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGS719 |
| **Layout** | 36LYL738 |
| **Eff. date** | 11-24-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 04-13-2011 |

| | |
|---|---|
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | 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** | 3646M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 18.32 IN |
| **Power Factor** | 81 |
| **Product Family** | Wash Down All Stainless Steel |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **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**

| NP1953B01 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CESSWDM3615T | | | | | | | |
| **SPEC.** | 36L738S719G1 | | | | | | | |
| **HP** | 5 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 13/6.5 | | | | | | | |
| **RPM** | 1750 | | | | | | | |
| **FRAME** | 184TC | **HZ** | 60 | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | B | **CLASS** | F | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 81 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | **USABLE AT 208V** | | N/A | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| | 4:1CT 20:1VT | | | | | | | |

**AC Induction Motor Performance Data**
Record # 36851
Typical performance - not guaranteed values

| **Winding:** 36WGS719-R001 | **Type:** 3646M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 15 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13/6.5 | **Breakdown Torque** | 49.7 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 27.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 32.3 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 48.3 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.91 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 81 | **Line-line Res. @ 25ºC** | 2.3457 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 87°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 109°C |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 75 | 81 | 83 | 84 | 82 |
| **Efficiency** | 86.3 | 90.3 | 90.6 | 89.8 | 88.4 | 86.5 | 89 |
| **Speed** | 1788.5 | 1776.4 | 1763.2 | 1748.5 | 1732.5 | 1714.2 | 1739 |
| **Line amperes** | 3.26 | 4.07 | 5.17 | 6.44 | 7.96 | 9.65 | 7.35 |

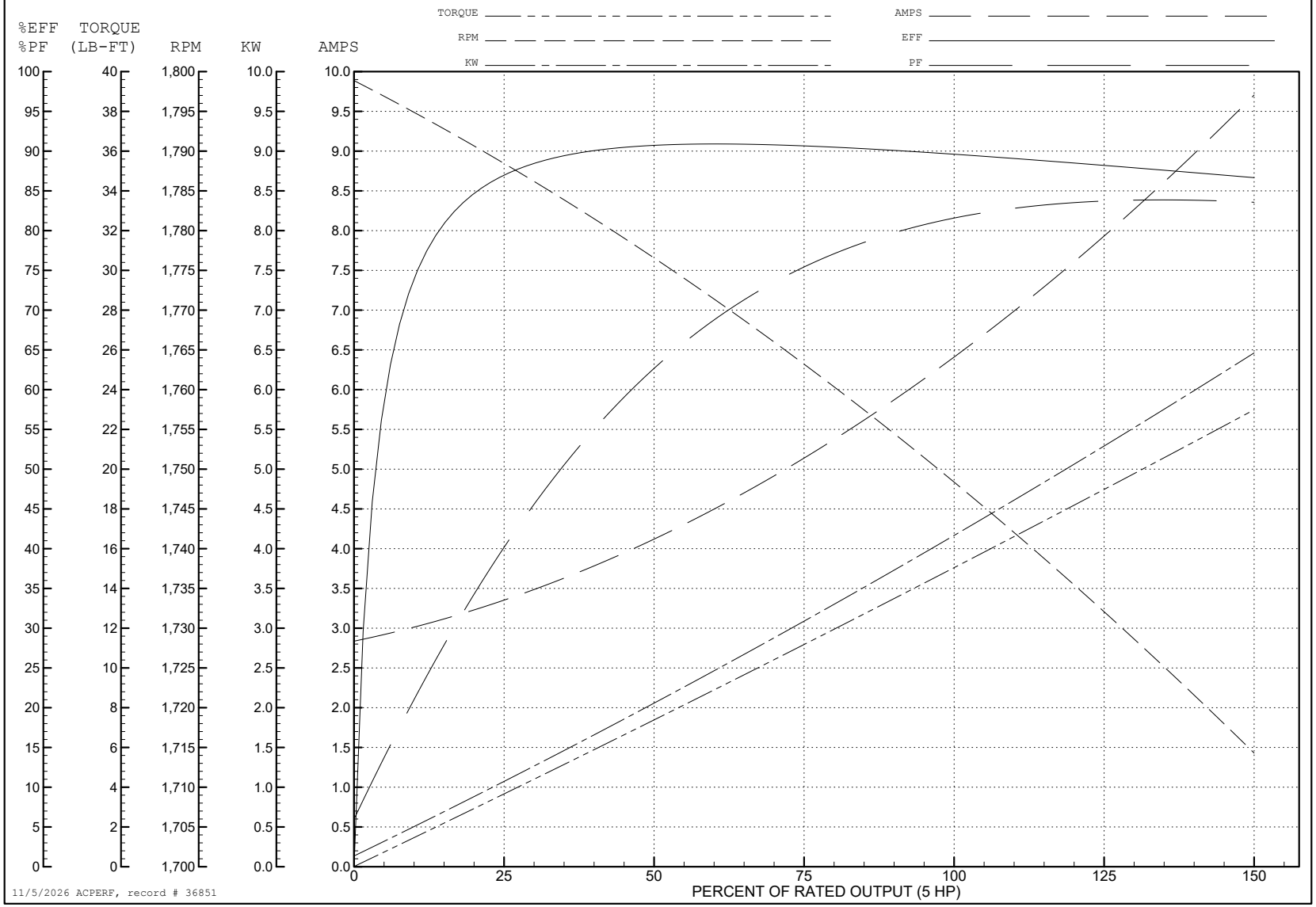
ABB Motors and Mechanical Inc.

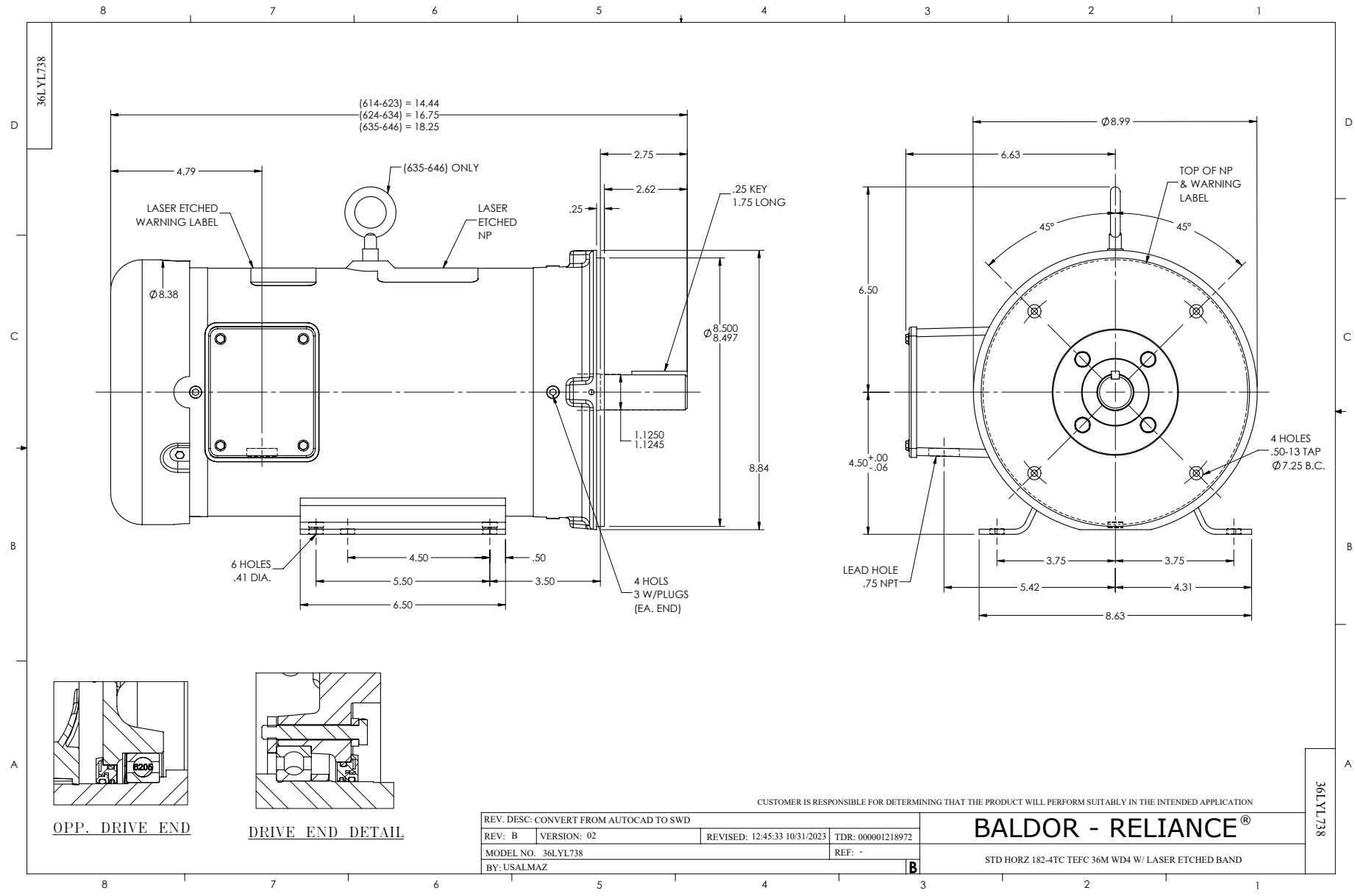
WINDING # 36WGS719

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

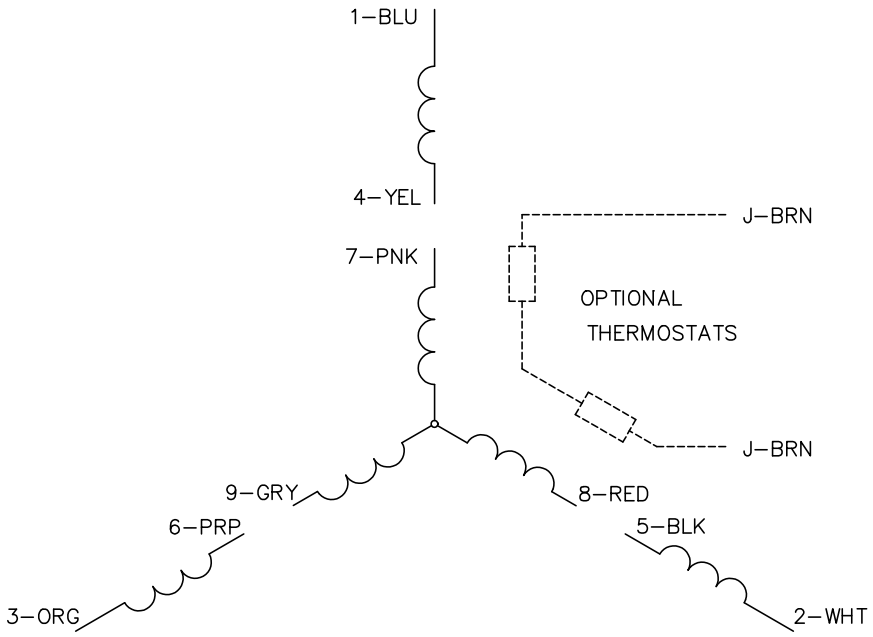
Typical performance - not guaranteed values.

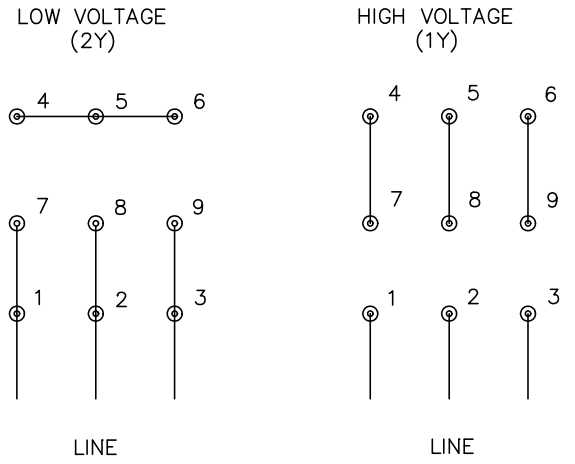
TORQUES(LB-FT): PO=49.7 PU=27.7 LR=32.3 LRA=48.3




36LYL738
(614-623) = 14.44
(624-634) = 16.75
(635-646) = 18.25
4.79
(635-646) ONLY
2.75
2.62
.25
.25 KEY
1.75 LONG
LASER ETCHED WARNING LABEL
LASER ETCHED NP
Ø8.38
Ø8.500
8.497
1.1250
1.1245
8.84
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
4 HOLS
3 W/PLUGS
(EA. END)
Ø8.99
6.63
TOP OF NP
& WARNING
LABEL
45°
45°
6.50
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
5.42
4.31
8.63
OPP. DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: B
VERSION: 02
REVISED: 12:45:33 10/31/2023
TDR: 000001218972
MODEL NO. 36LYL738
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC 36M WD4 W/ LASER ETCHED BAND
36LYL738

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 |