ABB BALDOR RELIANCE

# Customer information packet

## EBM3730TY-DI

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3736M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213T |
| **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** | 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** | 21.000 A @ 208.0 V |
| | 9.400 A @ 460.0 V |
| | 18.800 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Brake Mounting |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 37H582 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGT859 |
| **Layout** | 37LYH582 |
| **Eff. date** | 05-02-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 09-29-2016 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.4 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3736M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 27.20 IN |
| **Power Factor** | 81 |
| **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** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1770 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.** | EBM3730TY-DI | | | | | | | |
| **SPEC.** | 37H582T859G1 | | | | | | | |
| **HP** | 7.5 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 18.8/9.4 | | | | | | | |
| **RPM** | 1770 | | | | | | | |
| **FRAME** | 213T | **HZ** | 60 | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | A | **CL** | F | |
| **NEMA-NOM-EFF** | 91.7 | **PF** | 81 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | | | | | | | |
| **DE** | 6307 | **ODE** | 6306 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |

**AC Induction Motor Performance Data**
Record # 17797
Typical performance - not guaranteed values

| **Winding:** 37WGT859-R001 | **Type:** 3736M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 22.4 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 18.8/9.4 | **Breakdown Torque** | 69.2 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 36.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 41.1 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 70.1 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.4 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 81 | **Line-line Res. @ 25ºC** | 1.37 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 53°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 65°C |
| | | | | **Locked-rotor Power Factor** | 37 |
| | | | | **Rotor inertia** | 0.885 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 41 | 63 | 75 | 81 | 84 | 85 | 83 |
| **Efficiency** | 88.6 | 92.2 | 92.7 | 92.2 | 91.3 | 90.1 | 91.7 |
| **Speed** | 1793 | 1786 | 1778 | 1770 | 1761 | 1751 | 1765 |
| **Line amperes** | 4.88 | 6.08 | 7.59 | 9.49 | 11.5 | 13.8 | 10.7 |

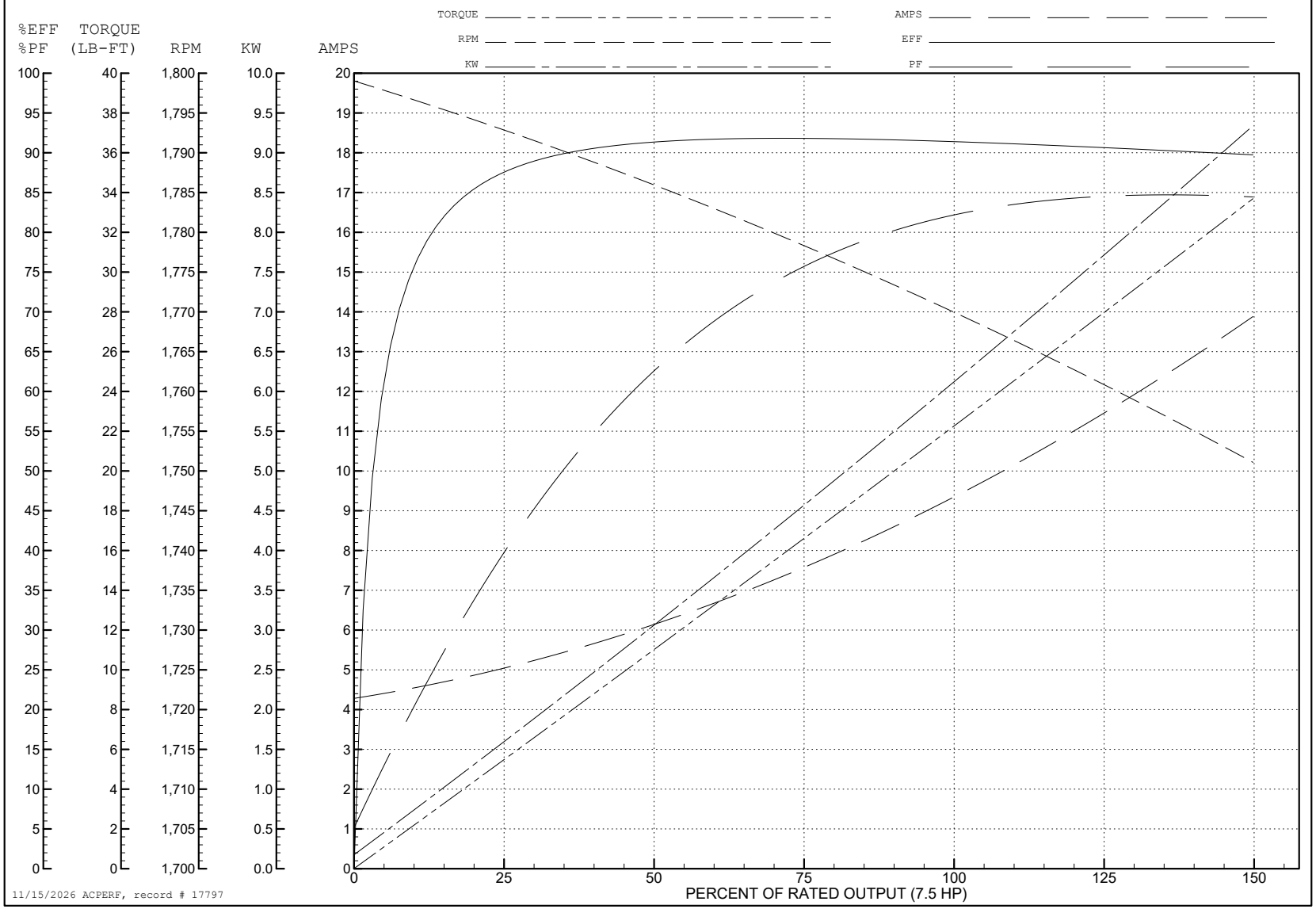
ABB Motors and Mechanical Inc.

WINDING # 37WGT859

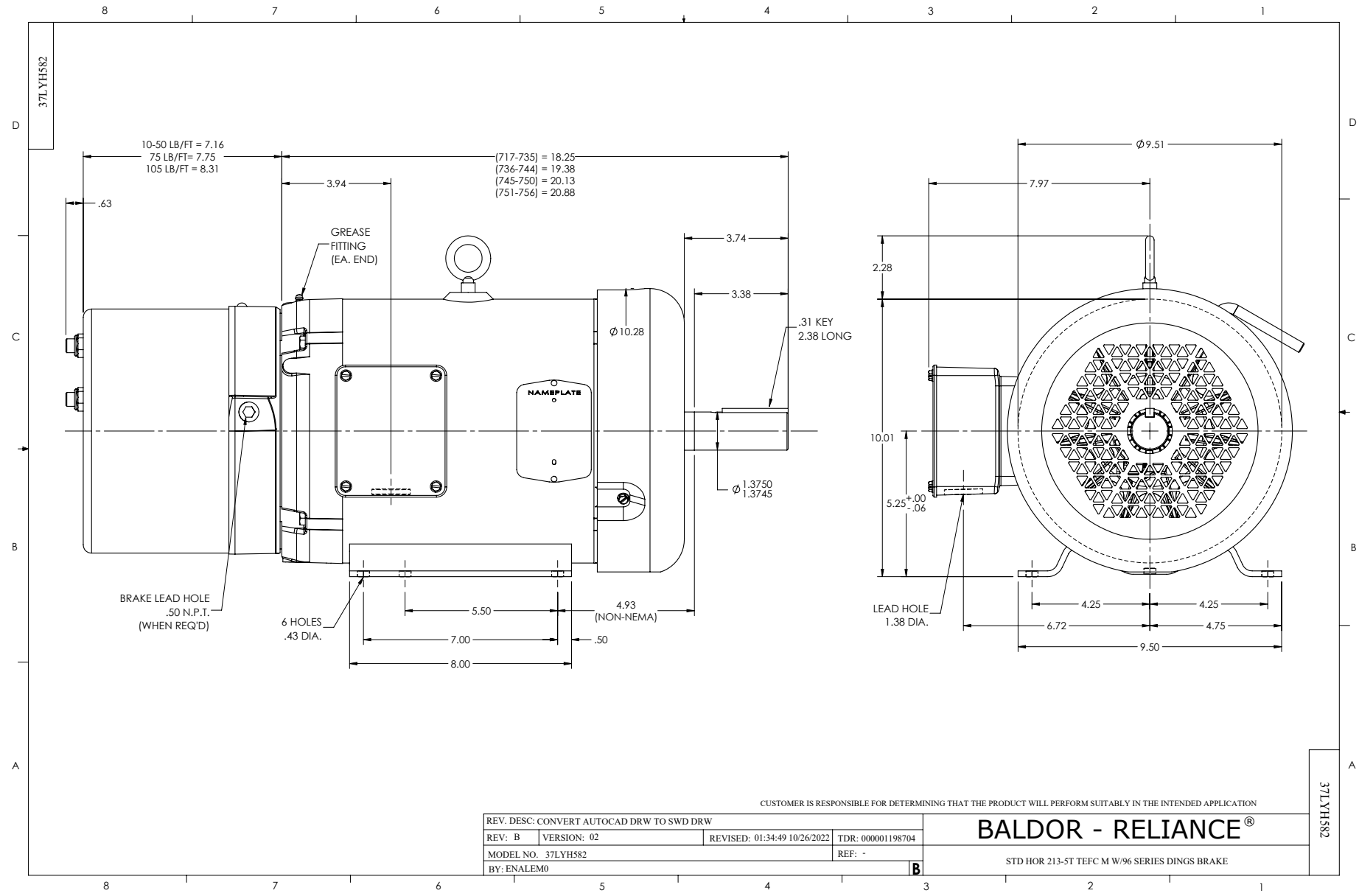
7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3736M

Typical performance - not guaranteed values.

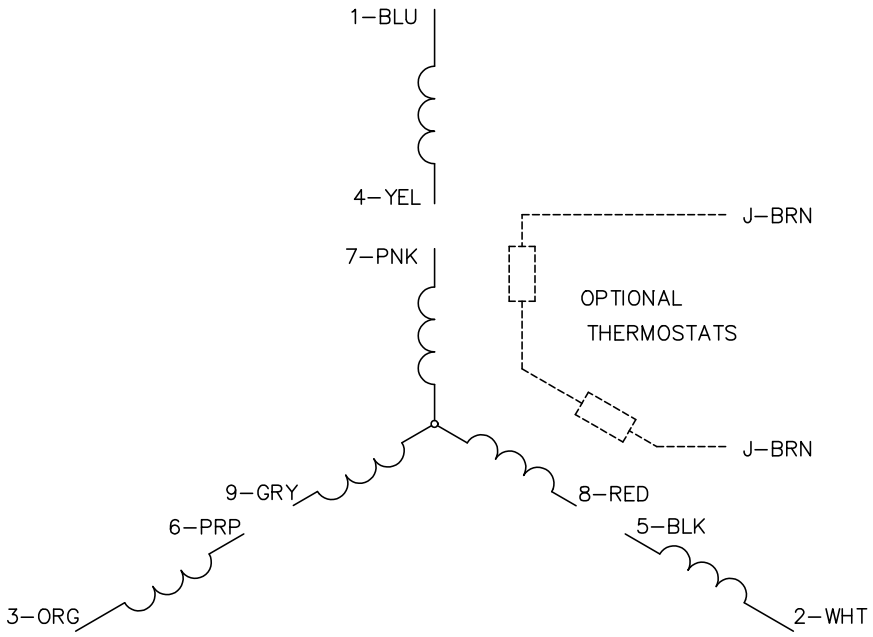
TORQUES(LB-FT): PO=69.2 PU=36.1 LR=41.1 LRA=70.1

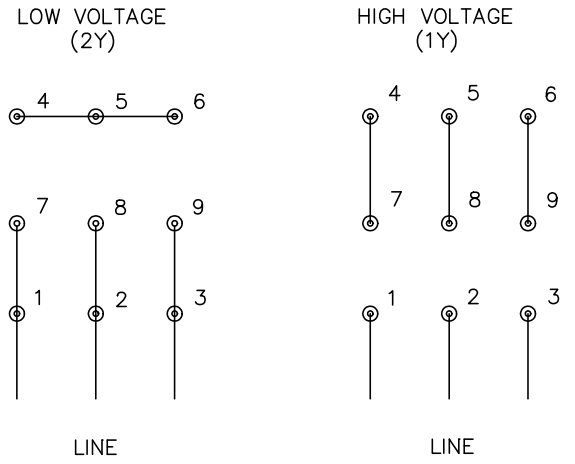



11/15/2026 ACPERF, record # 17797


37LYH582
10-50 LB/FT = 7.16
75 LB/FT= 7.75
105 LB/FT = 8.31
(717-735) = 18.25
(736-744) = 19.38
(745-750) = 20.13
(751-756) = 20.88
3.94
.63
GREASE FITTING (EA. END)
3.74
3.38
Ø10.28
.31 KEY
2.38 LONG
NAMEPLATE
Ø1.3750
1.3745
BRAKE LEAD HOLE
.50 N.P.T.
(WHEN REQ'D)
6 HOLES
.43 DIA.
5.50
4.93
(NON-NEMA)
7.00
.50
8.00
Ø9.51
7.97
2.28
10.01
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4.25
4.25
6.72
4.75
9.50
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: 01:34:49 10/26/2022
TDR: 000001198704
MODEL NO. 37LYH582
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 213-5T TEFC M W/96 SERIES DINGS BRAKE
37LYH582

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 |