ABB BALDOR RELIANCE

# Customer information packet

## IDXM7006

.5HP, 1735RPM, 3PH, 60HZ, 56C, 3514M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/5/2026 9:35:31 AM

## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | .500 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** | CSA |
| | UL |
| **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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 1.000 A @ 460.0 V |
| | 2.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 80.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | F |
| **Type** | AC |
| **Mech. spec.** | 35M998 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG155 |
| **Layout** | 35LYM998 |
| **Eff. date** | 09-08-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 10-01-2021 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 1.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | X3512M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 14.30 IN |
| **Power Factor** | 65 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **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** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0887XPSL | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | **CC** | | | | | | | |
| **S/N** | | | | **TEMP CODE** | T3C | | | | | | |
| **SPEC.** | 35M998G155G2 | | | **INV.TYPE** | PWM | | | | | | |
| **CAT.NO.** | | | | **C HP FR** | 60 | **C HP TO** | 90 | | | | |
| **HP** | .5 | | | **CT HZ FROM** | 6 | | | **CT HZ TO** | 60 | | |
| **VOLTS** | 230/460 | | | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 | | |
| **AMPS** | 2/1 | | | **MAG CUR** | 1.6/.8 | | | | | | |
| **RPM** | 1770 | | | **MX RPM** | 2700 | | | | | | |
| **HZ** | 60 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 78.2 | | | | |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 1 | **WK2** | 0.087 | | | | |
| **FRAME** | 56C | **RATING** | 40C AMB-CONT | | | | | | | | |
| | 40C RISE | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 82212
Typical performance - not guaranteed values

| **Winding:** 35WGG155-R006 | **Type:** 3512M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .5 | **Full Load Torque** | 1.49 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 2/1 | **Breakdown Torque** | 6.28 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 3.26 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 4.04 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | M | **Starting Current** | 6.71 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 0.792 A |
| **NEMA Nom. Eff.** | 78.2 | **Power Factor** | 62 | **Line-line Res. @ 25ºC** | 43.2 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 22°C |
| | | | | **Locked-rotor Power Factor** | 70.8 |
| | | | | **Rotor inertia** | 0.0866 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 27 | 41 | 52 | 62 | 69 | 75 |
| **Efficiency** | 56.5 | 70.7 | 76.5 | 78.9 | 80 | 80 |
| **Speed** | 1792 | 1786 | 1779 | 1771 | 1763 | 1755 |
| **Line amperes** | 0.795 | 0.827 | 0.889 | 0.966 | 1.06 | 1.18 |

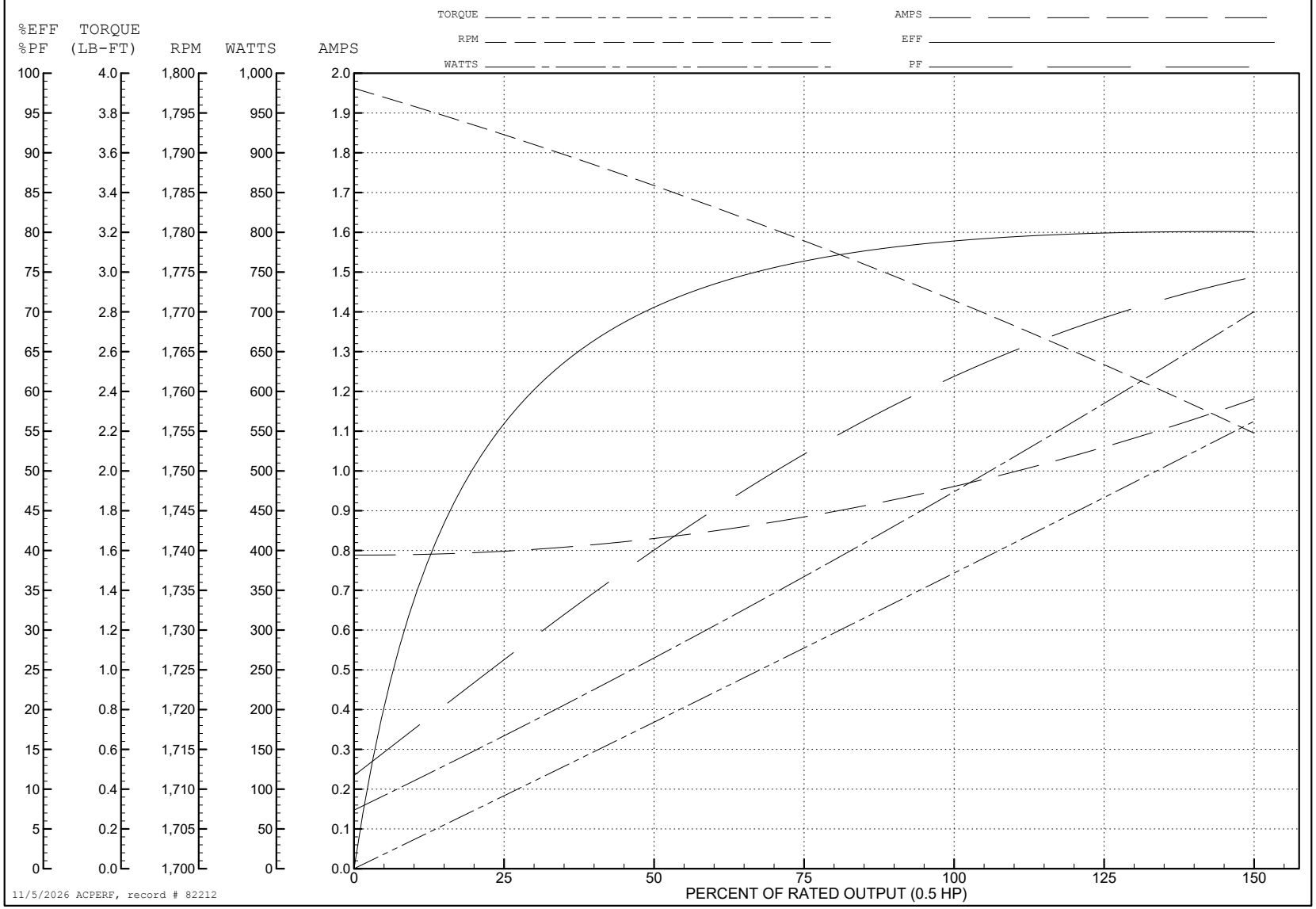
ABB Motors and Mechanical Inc.

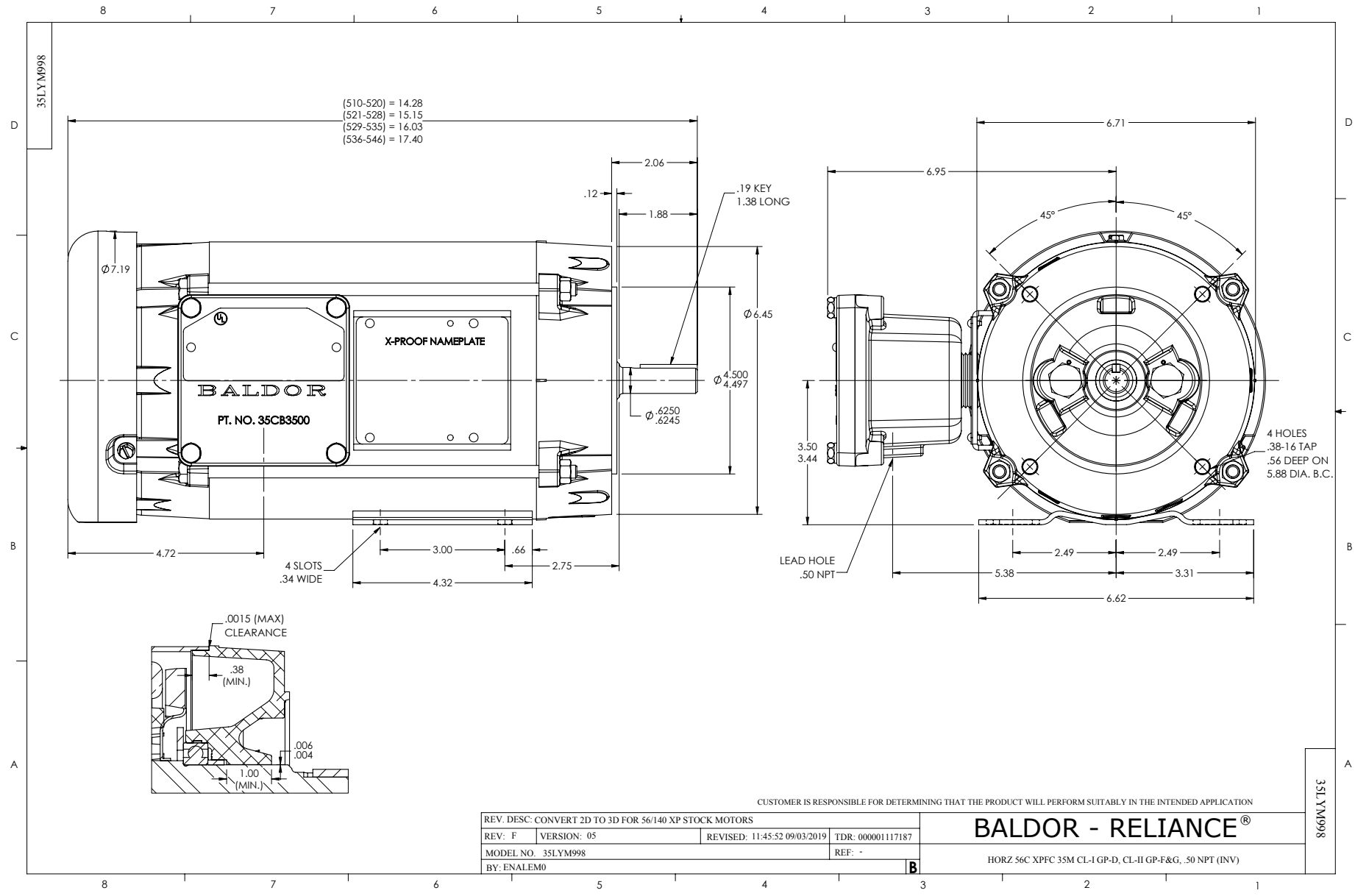
WINDING # 35WGG155

0.5 HP 3 PH 60 HZ 1770 RPM 460 V 3512M

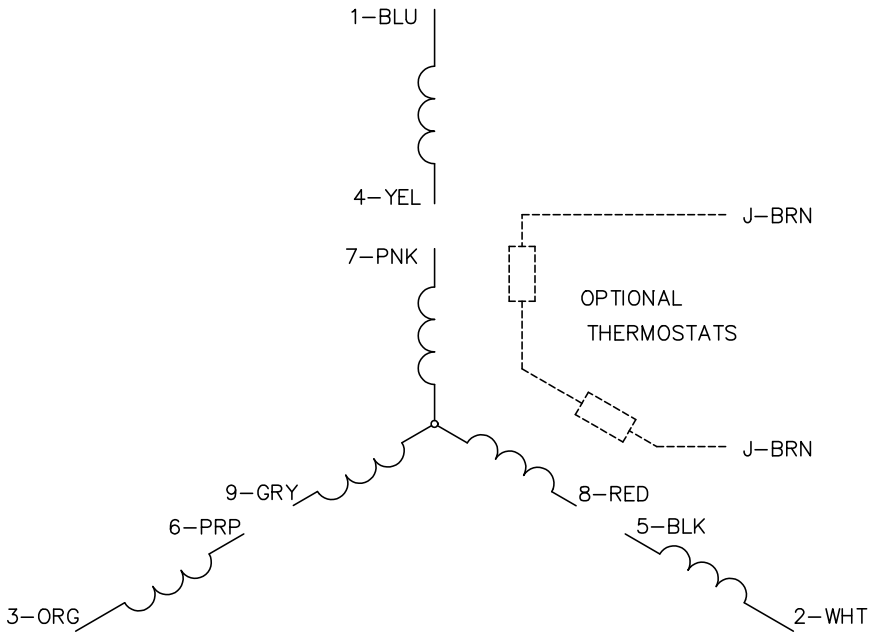
Typical performance - not guaranteed values.

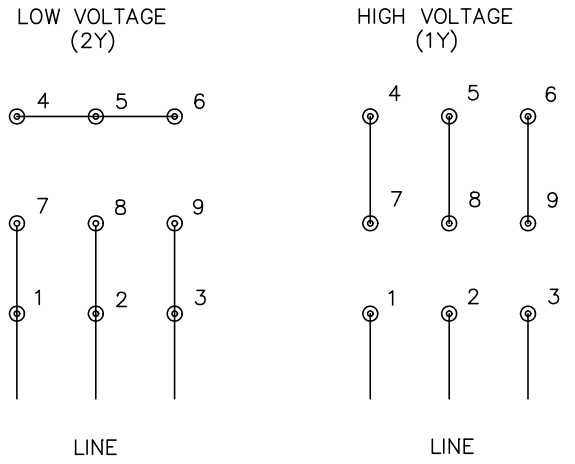
TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71




35LYM998
(510-520) = 14.28
(521-528) = 15.15
(529-535) = 16.03
(536-546) = 17.40
2.06
.12
1.88
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
Ø.6250
.6245
4.72
3.00
.66
2.75
4 SLOTS
.34 WIDE
4.32
6.71
6.95
45°
45°
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.50 NPT
2.49
2.49
5.38
3.31
6.62
.0015 (MAX)
CLEARANCE
.38
(MIN.)
.006
.004
1.00
(MIN.)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT 2D TO 3D FOR 56/140 XP STOCK MOTORS
REV: F
VERSION: 05
REVISED: 11:45:52 09/03/2019
TDR: 000001117187
MODEL NO. 35LYM998
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPFC 35M CL-I GP-D, CL-II GP-F&G, .50 NPT (INV)
35LYM998

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 |