ABB BALDOR RELIANCE

# Customer information packet

## VWDM3542

.75/.55KWHP, 1765 1/MINRPM, 3PH, 60HZ, 56C, 3
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TENV |
| **Frame** | 56C |
| **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** | .750 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** | CE |
| | CSA |
| | UR |
| | WEEE |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 2.400 A @ 208.0 V |
| | 2.280 A @ 230.0 V |
| | 1.140 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | F |
| **Type** | AC |
| **Mech. spec.** | 35S603 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG069 |
| **Layout** | 35LYS603 |
| **Eff. date** | 06-05-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 Y |
| **Proprietary** | False |
| **Created date** | 01-19-2023 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3514M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.05 IN |
| **Power Factor** | 74 |
| **Product Family** | Wash Down |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1765 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**

| NP2984L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT NO** | VWDM3542 | | | | | | | | | |
| **SPEC.** | 35S603G069G2 | | | | | | | | | |
| **HP** | .75/.55KW | | | | | **PH** | 3 | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMP** | 2.4/1.2 | | | | | | | | | |
| **R.P.M. (1/MIN)** | 1765 | | | | | **IC** | 410 | | | |
| **FRAME** | 56C | | **HZ** | 60 | | | **I.P.** | 55 | | |
| **SER.F.** | 1.25 | **CODE** | K | **DES** | B | **CL** | F | | | |
| **NEMA-NOM-EFF** | 82.5 | | | **% (100%)** | | **WT.** | 14 | **KG** | | |
| **PF** | 74 | | | | | | | | | |
| **RATING** | 40C AMB-S1 CONT | | | | **CC** | | | | | |
| **DE BRG** | 6205 | | **ODE** | 6203 | | | | | | |
| **ENCL** | TENV | **SN** | | | | | | | | |
| **BLANK** | SFA 2.68/1.34 | | | | | | | | | |
| | IE3 83.3 (75%) 80.7 (50%) | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 87322
Typical performance - not guaranteed values

| **Winding:** 35WGG069-R009 | **Type:** 3514M | **Enclosure:** TENV |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 2.24 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 2.42/2.42 | **Breakdown Torque** | 8 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 4.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 5.1 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 8.4 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 0.85 A |
| **NEMA Nom. Eff.** | 82.5 | **Power Factor** | 74 | **Line-line Res. @ 25ºC** | 30.3 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 75°C |
| **S.F. Amps** | | | 2.8/1.4 | **Temp. Rise @ S.F. Load** | 94°C |
| | | | | **Locked-rotor Power Factor** | 66.8 |
| | | | | **Rotor inertia** | 0.101 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 30 | 48 | 61 | 70 | 77 | 81 | 80 |
| **Efficiency** | 68.4 | 79 | 82.2 | 82.9 | 82.4 | 81.2 | 82.8 |
| **Speed** | 1791 | 1783 | 1775 | 1766 | 1757 | 1746 | 1752 |
| **Line amperes** | 0.87 | 0.95 | 1.06 | 1.21 | 1.4 | 1.61 | 1.34 |

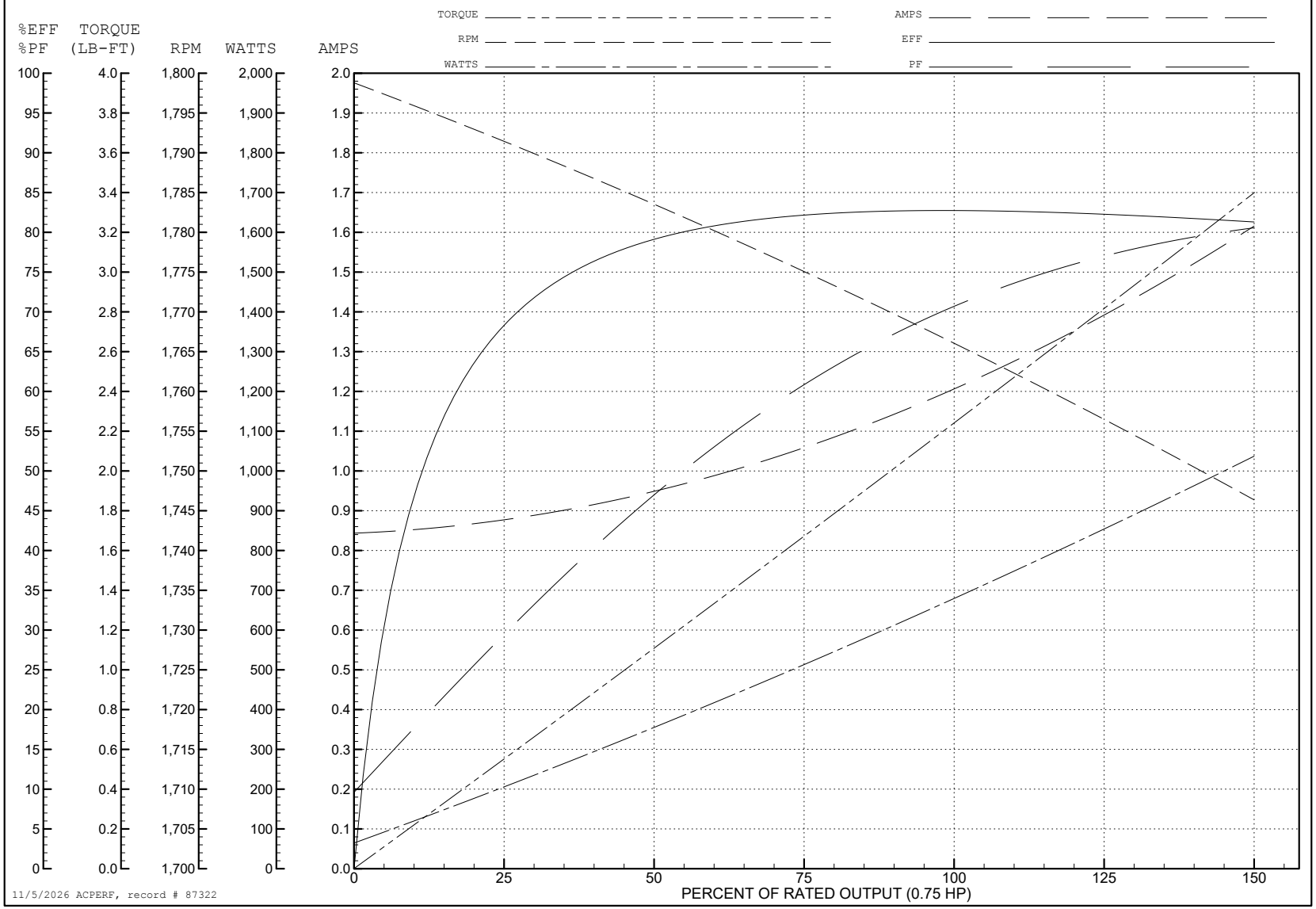
ABB Motors and Mechanical Inc.

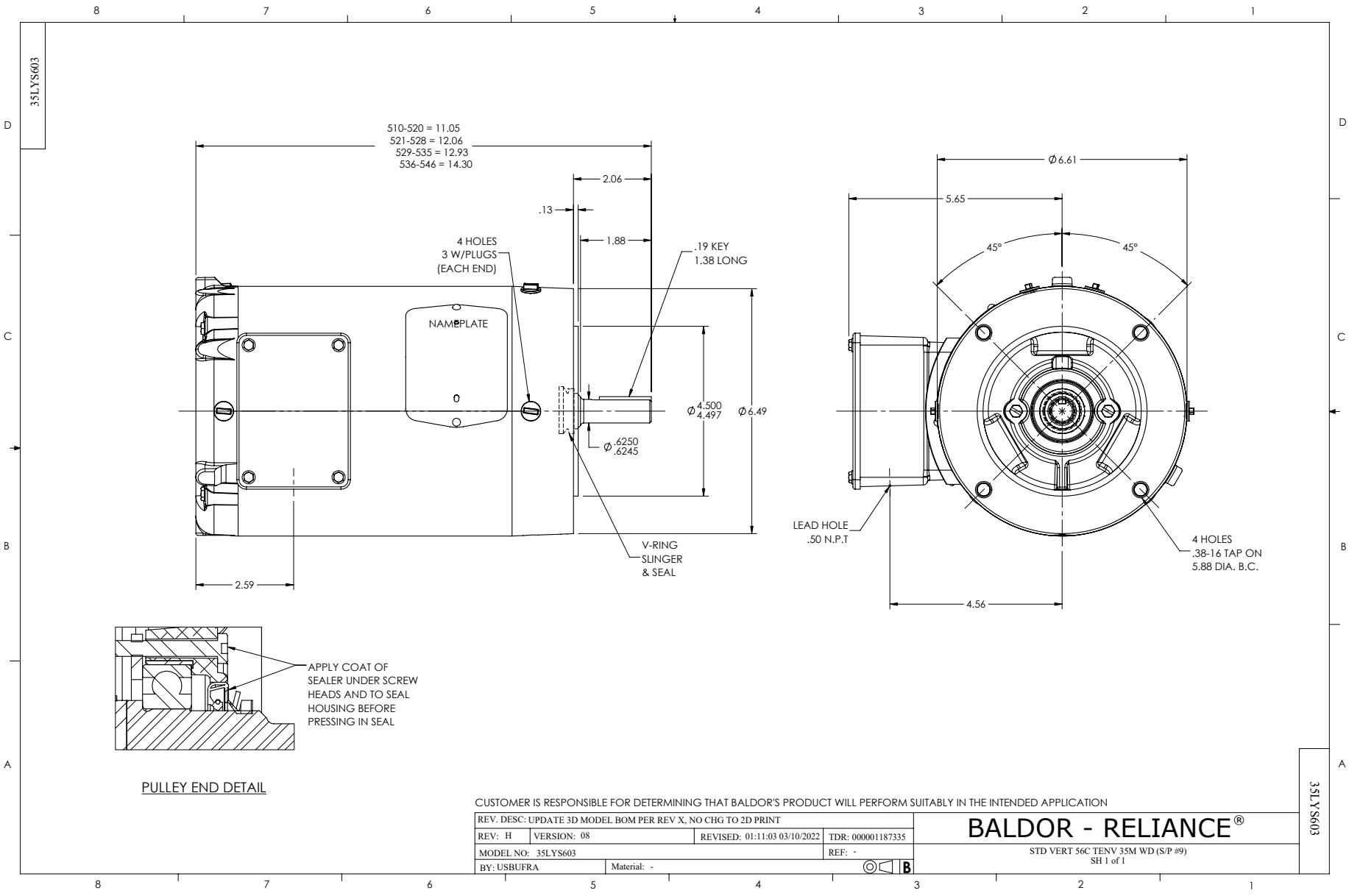
WINDING # 35WGG069

0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M

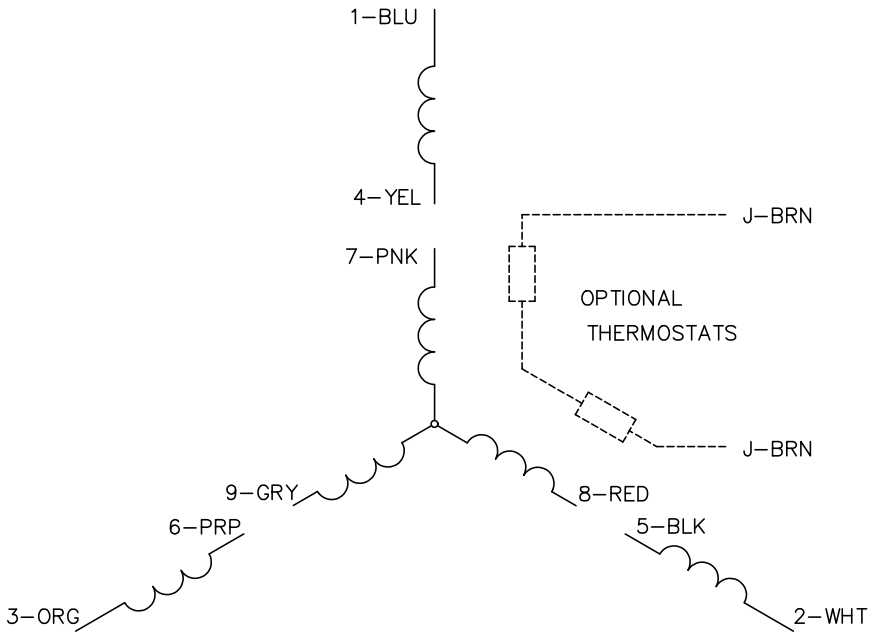
Typical performance - not guaranteed values.

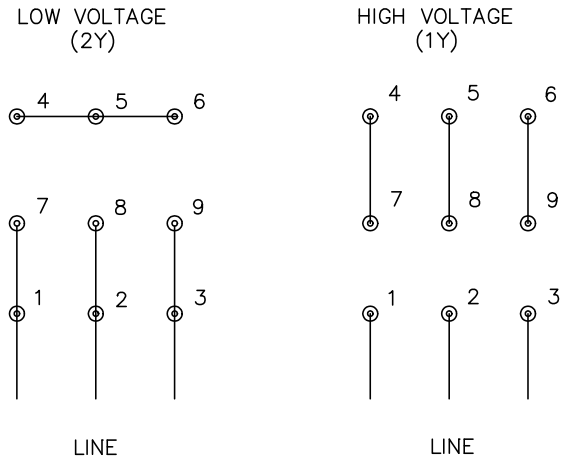
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4




35LYS603
510-520 = 11.05
521-528 = 12.06
529-535 = 12.93
536-546 = 14.30
2.06
.13
1.88
4 HOLES
3 W/PLUGS
(EACH END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø6.49
Ø .6250
.6245
V-RING
SLINGER
& SEAL
2.59
Ø6.61
5.65
45°
45°
LEAD HOLE
.50 N.P.T
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
4.56
APPLY COAT OF
SEALER UNDER SCREW
HEADS AND TO SEAL
HOUSING BEFORE
PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV X, NO CHG TO 2D PRINT
REV: H
VERSION: 08
REVISED: 01:11:03 03/10/2022
TDR: 000001187335
MODEL NO: 35LYS603
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD VERT 56C TENV 35M WD (S/P #9)
SH 1 of 1
35LYS603

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 |