ABB BALDOR RELIANCE

# Customer information packet

## AOM3554T

1.5 AIR OVERHP, 1750RPM, 3PH, 60HZ, 145T, 352
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 145T |
| **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** | 1.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 208.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | 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** | 4.900 A @ 230.0 V |
| | 4.700 A @ 208.0 V |
| | 2.450 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 81.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 35K695 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGZ923 |
| **Layout** | 35LYK695 |
| **Eff. date** | 01-05-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 03-11-2022 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 2.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **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** | 3520M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.12 IN |
| **Power Factor** | 70 |
| **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** | 0.875 IN |
| **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**

| NP1256L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | AOM3554T | | | | | | | | | | |
| **SPEC.** | 35K695Z923G1 | | | | | | | | | | |
| **HP** | 1.5 AIR OVER | | | | | | | | | | |
| **VOLTS** | 208-230/460 | | | | | | | | | | |
| **AMP** | 4.7-4.9/2.45 | | | | | | | | | | |
| **RPM** | 1750 | | | | | | | | | | |
| **FRAME** | 145T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | M | **DES** | B | **CLASS** | F | | | | |
| **NEMA-NOM-EFF** | 81.5 | **PF** | 70 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6205 | | **ODE** | 6203 | | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | | | |
| | SFA 5.3-5.4/2.7 | | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 35-8762 | C FACE KIT | A8 |
| 35EP1506A01SP | D-FLANGE KIT | A8 |

**AC Induction Motor Performance Data**
Record # 88667
Typical performance - not guaranteed values

| **Winding:** 35WGZ923-R001 | **Type:** 3520M | **Enclosure:** TEAO |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1.5 AIR OVER | **Full Load Torque** | 4.51 LB-FT |
| **Volts** | | | 208-230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 4.7-4.9/2.45 | **Breakdown Torque** | 20.99 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 16.79 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 18.03 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | M | **Starting Current** | 19.58 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.93 A |
| **NEMA Nom. Eff.** | 81.5 | **Power Factor** | 70 | **Line-line Res. @ 25ºC** | 12.5 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 65°C |
| **S.F. Amps** | | | 5.3-5.4/2.7 | **Temp. Rise @ S.F. Load** | 74°C |
| | | | | **Locked-rotor Power Factor** | 71.8 |
| | | | | **Rotor inertia** | 0.144 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 28 | 44 | 57 | 67 | 74 | 79 | 71 |
| **Efficiency** | 64.2 | 76.4 | 80.6 | 82 | 81.9 | 81.2 | 81.9 |
| **Speed** | 1788 | 1776 | 1763 | 1749 | 1734 | 1717 | 1740 |
| **Line amperes** | 1.96 | 2.09 | 2.29 | 2.57 | 2.91 | 3.3 | 2.77 |

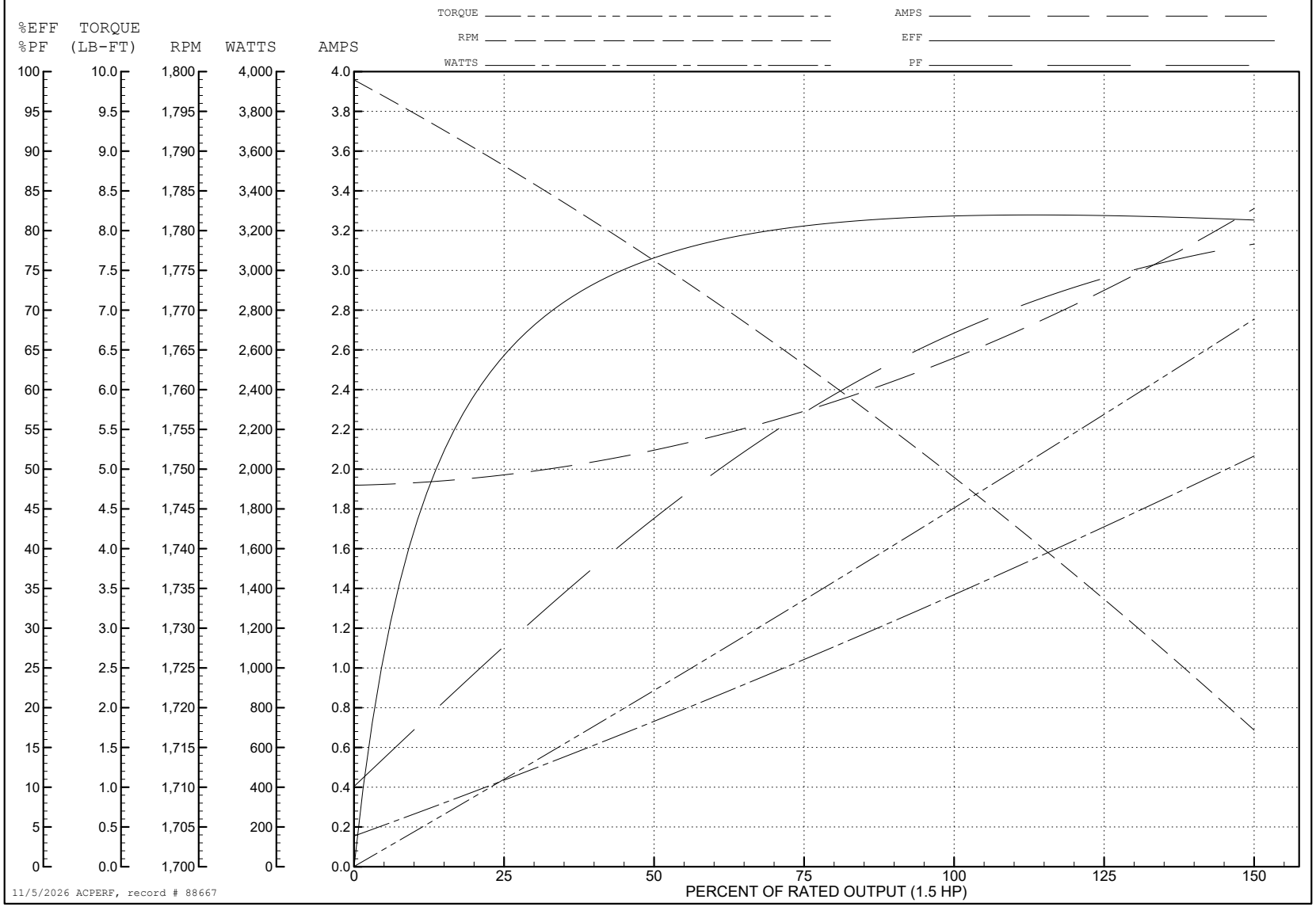
ABB Motors and Mechanical Inc.

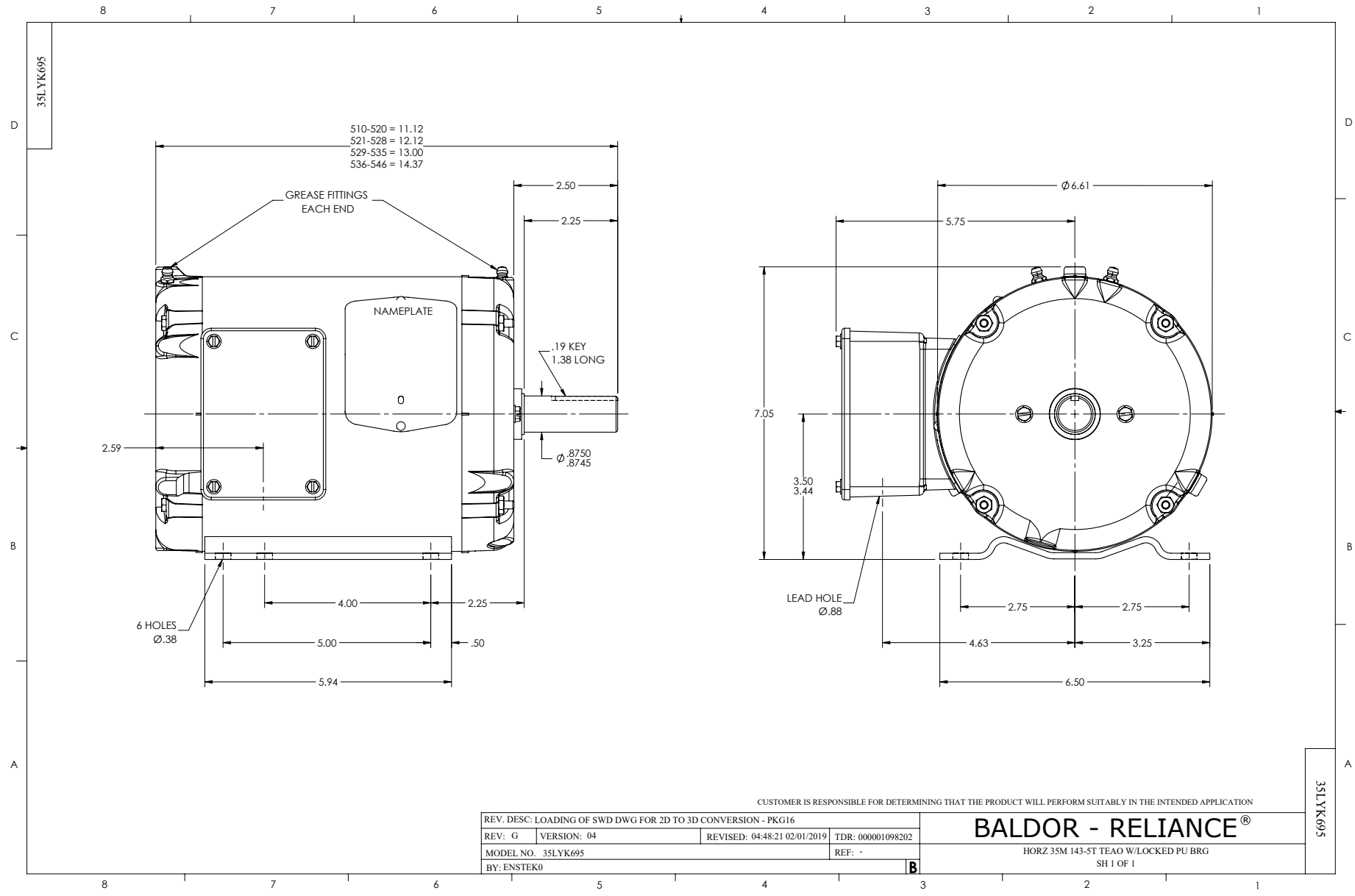
WINDING # 35WGZ923

1.5 HP 3 PH 60 HZ 1750 RPM 460 V 3520M

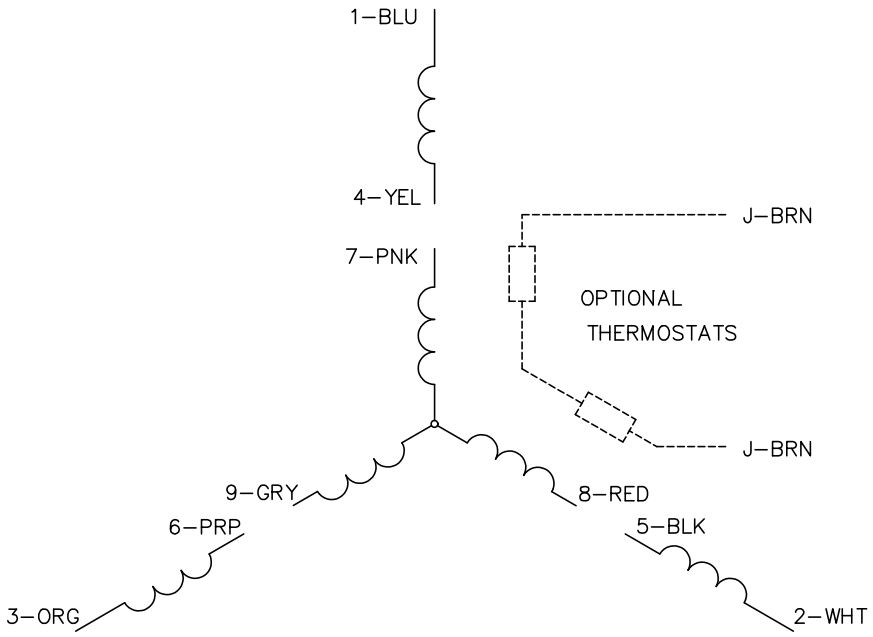
Typical performance - not guaranteed values.

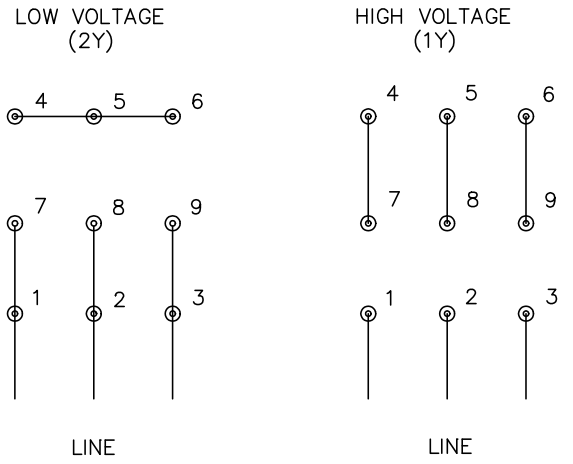
TORQUES(LB-FT): PO=20.99 PU=16.79 LR=18.03 LRA=19.58




35LYK695
510-520 = 11.12
521-528 = 12.12
529-535 = 13.00
536-546 = 14.37
GREASE FITTINGS EACH END
2.50
2.25
NAMEPLATE
.19 KEY
1.38 LONG
2.59
Ø .8750
.8745
6 HOLES
Ø.38
4.00
2.25
5.00
.50
5.94
Ø 6.61
5.75
7.05
3.50
3.44
LEAD HOLE
Ø.88
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG16
REV: G
VERSION: 04
REVISED: 04:48:21 02/01/2019
TDR: 000001098202
MODEL NO. 35LYK695
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HORZ 35M 143-5T TEAO W/LOCKED PU BRG
SH 1 OF 1
35LYK695

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 |