ABB BALDOR RELIANCE

# Customer information packet

## CEBM3558T-D

2HP, 1760RPM, 3PH, 60HZ, 145TCY, 3528M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TCY |
| **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** | 2.000 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** | CE |
| | CURUSEEV |
| | NEMA PREMIUM |
| | UKCA |
| | WEEE |
| **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** | 5.800 A @ 208.0 V |
| | 5.600 A @ 230.0 V |
| | 2.800 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 35X157 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG073 |
| **Layout** | 35LYX157 |
| **Eff. date** | 05-20-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 Y |
| **Proprietary** | False |
| **Created date** | 03-11-2022 |

| | |
|---|---|
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.8 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **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** | 3528M |
| **Mounting Arrangement** | F3 |
| **Number of Poles** | 4 |
| **Overall Length** | 17.35 IN |
| **Power Factor** | 77 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **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** | 1760 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**

| NP2934L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEBM3558T-D | | | | | | | |
| **SPEC.** | 35X157G073G1 | | | | | | | |
| **HP** | 2 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **AMP** | 5.6/2.8 | | | | | | | |
| **R.P.M. (1/MIN)** | 1760 | | | | | | | |
| **FRAME** | 145TCY | **HZ** | 60 | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | B | **CL** | F | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 77 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | 010A | | | | | | | |
| **DE** | 6205 | **ODE** | 6205 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| | SFA 6.26/3.13 | | | | | | | |

**AC Induction Motor Performance Data**
Record # 87157
Typical performance - not guaranteed values

| **Winding:** 35WGG073-R001 | **Type:** 3528M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.99 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.6/2.8 | **Breakdown Torque** | 20.5 LB-FT |
| **R.P.M.** | | | 1760 | **Pull-up Torque** | 13.8 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 15 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 22.5 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.62 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 77 | **Line-line Res. @ 25ºC** | 9.54 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 64°C |
| **S.F. Amps** | | | 6.3/3.15 | **Temp. Rise @ S.F. Load** | 77°C |
| | | | | **Locked-rotor Power Factor** | 57.9 |
| | | | | **Rotor inertia** | 0.202 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 35 | 55 | 68 | 76 | 81 | 84 | 80 |
| **Efficiency** | 78.3 | 85.3 | 86.9 | 86.5 | 85.3 | 83.6 | 86.1 |
| **Speed** | 1791 | 1782 | 1771 | 1760 | 1748 | 1734 | 1754 |
| **Line amperes** | 1.71 | 1.97 | 2.34 | 2.82 | 3.36 | 3.97 | 3.13 |

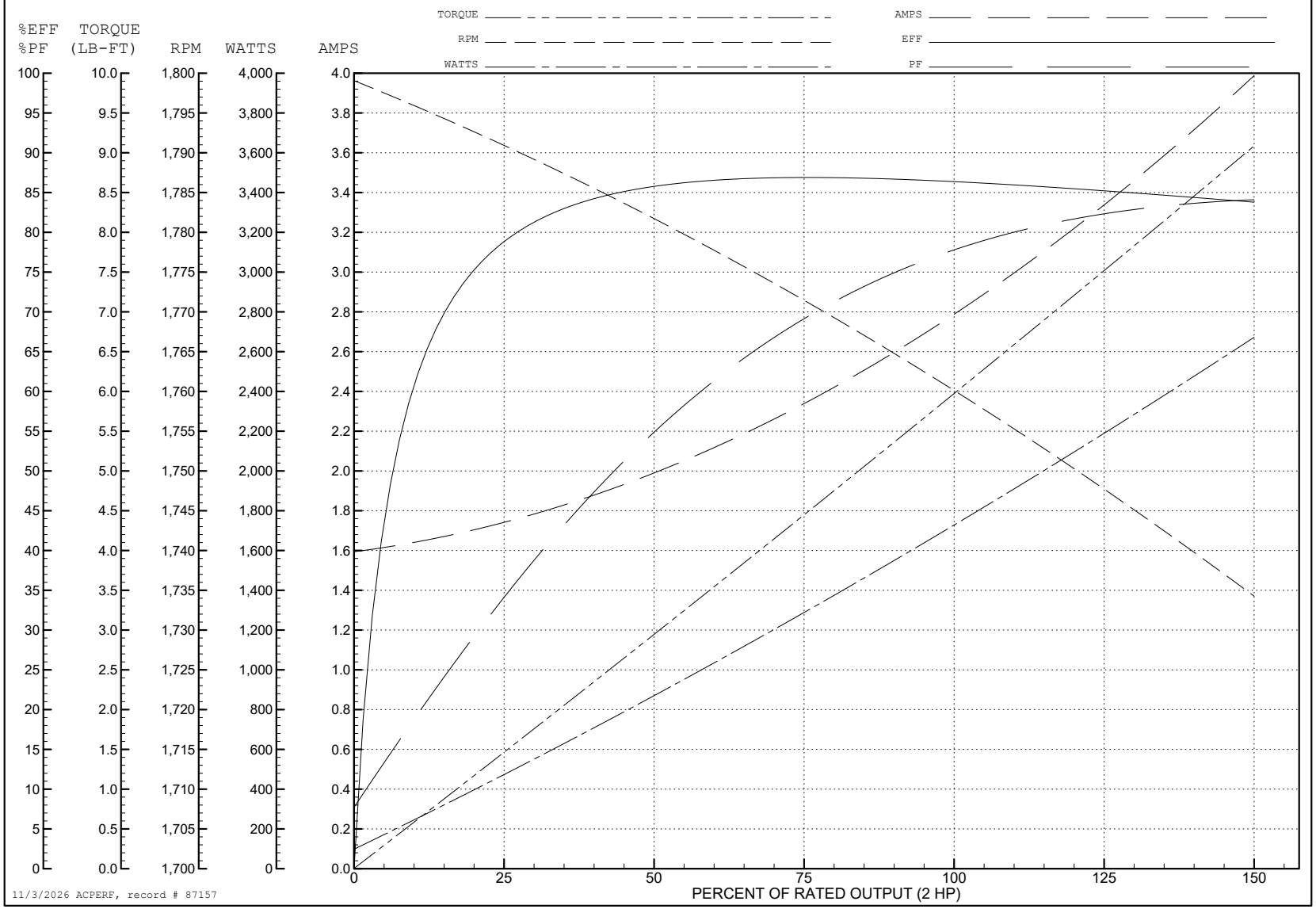
ABB Motors and Mechanical Inc.

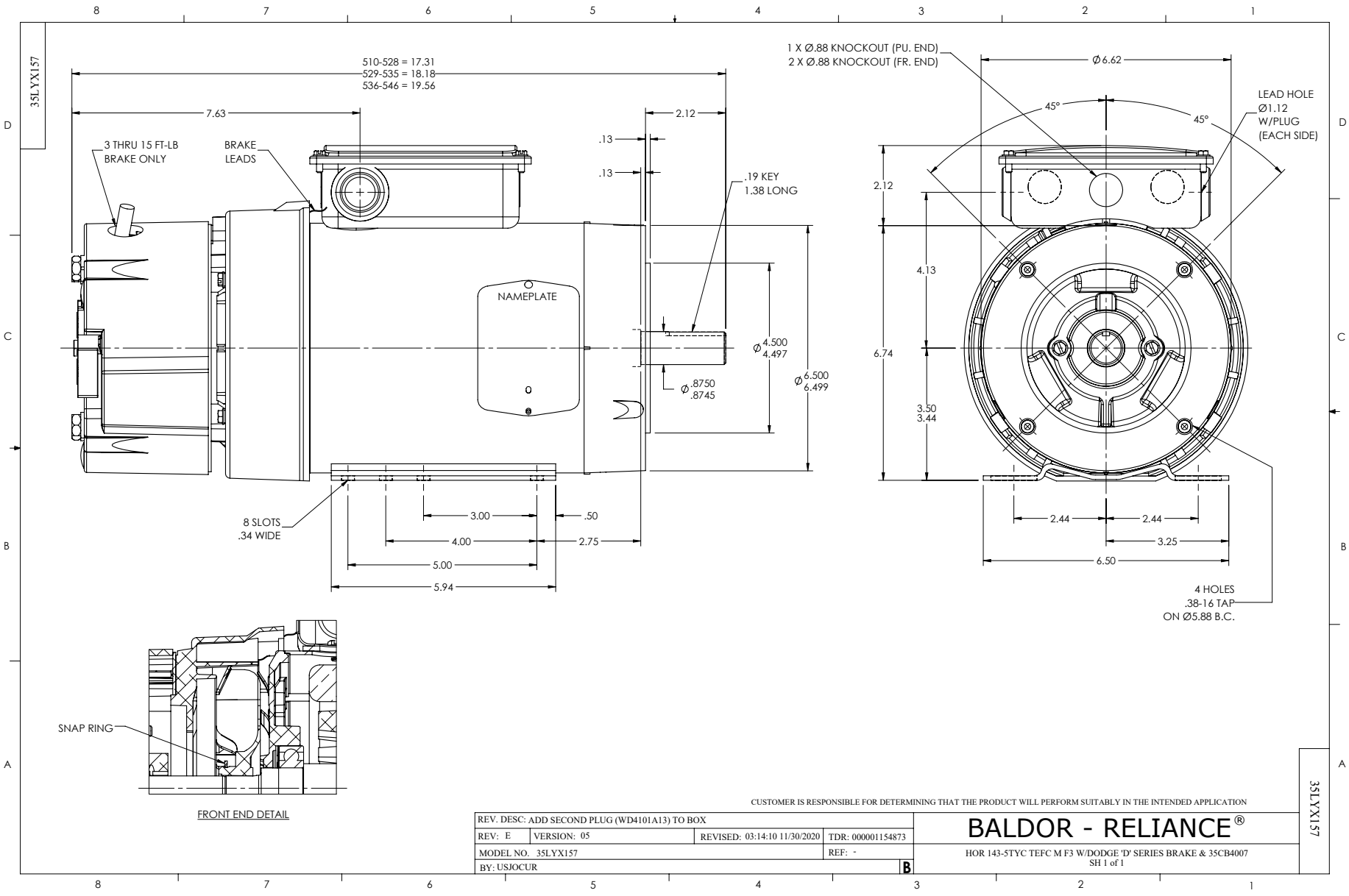
WINDING # 35WGG073

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

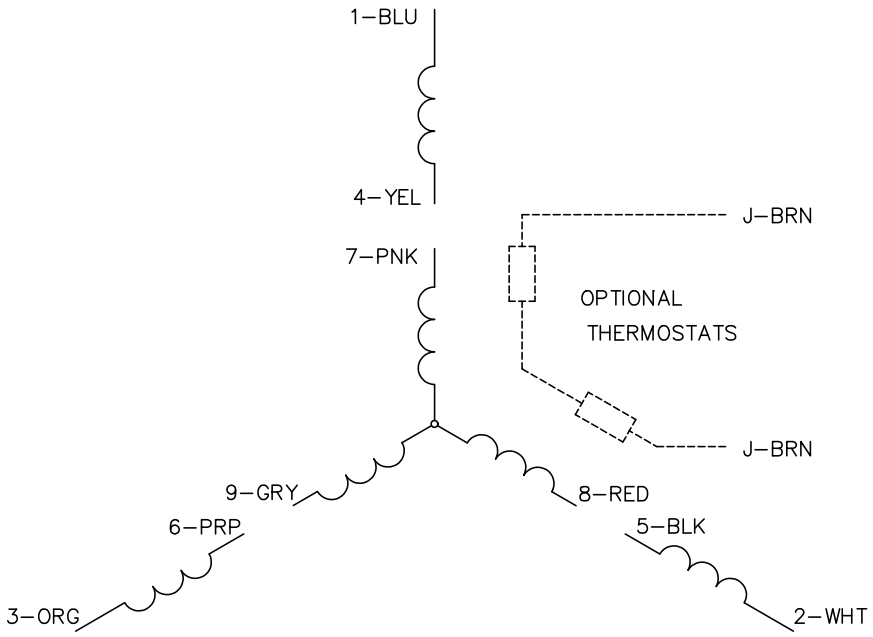
Typical performance - not guaranteed values.

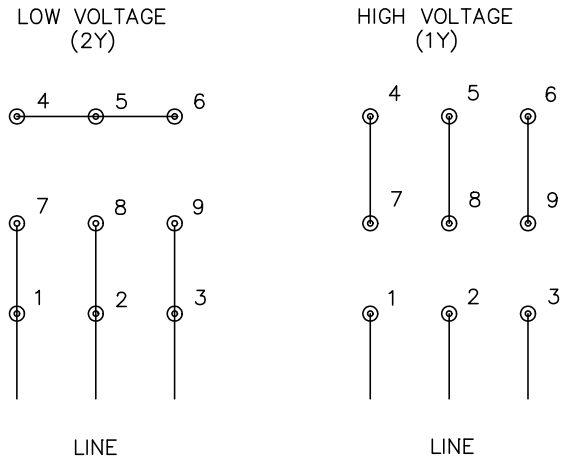
TORQUES(LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5




35LYX157
510-528 = 17.31
529-535 = 18.18
536-546 = 19.56
7.63
2.12
.13
.13
3 THRU 15 FT-LB
BRAKE ONLY
BRAKE
LEADS
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø 6.500
6.499
Ø .8750
.8745
8 SLOTS
.34 WIDE
3.00
.50
4.00
2.75
5.00
5.94
1 X Ø.88 KNOCKOUT (PU. END)
2 X Ø.88 KNOCKOUT (FR. END)
Ø 6.62
45°
45°
LEAD HOLE
Ø1.12
W/PLUG
(EACH SIDE)
2.12
4.13
6.74
3.50
3.44
2.44
2.44
3.25
6.50
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
SNAP RING
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD SECOND PLUG (WD4101A13) TO BOX
REV: E
VERSION: 05
REVISED: 03:14:10 11/30/2020
TDR: 000001154873
MODEL NO. 35LYX157
REF: -
BY: USJOCUR
B
BALDOR - RELIANCE®
HOR 143-5TYC TEFC M F3 W/DODGE 'D' SERIES BRAKE & 35CB4007
SH 1 of 1
35LYX157

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 |

CD2120

## WIRING CONNECTIONS (1 PHASE VAC)

| | POWER LINE A | POWER LINE B | CAP TOGETHER | CAP ALONE |
|---|---|---|---|---|
| AC LOW VOLT. | B1 | B2 | B3 & B5 | B4 |
| AC HIGH VOLT. | B1 & B5 | B2 | --- | B3 CAP ALONE<br>B4 CAP ALONE |
| DC VOLT. | B1 | B2 | B3 & B5 | B4 |

B1 WHITE
B2 BLACK
B3 GRAY
B4 BLUE
B5 RED

CD2120

| | | | |
|---|---|---|---|
| REV. DESC: NEW | | | BALDOR • DODGE • RELIANCE |
| REV. LTR: – | VERSION: 00 | TDR: 000000741785 | |
| FILE: \CKA\00037\282 | | REVISED: 12:28:11 04/12/2012 | D–SERIES MOTOR BRAKE 5LD AC\DC |
| MTL: – | | BY: CKRONS0 | SH 1 of 1 |