ABB BALDOR RELIANCE

# Customer information packet

## ECR9076T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 0954M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 254T |
| **Frame Material** | Iron |
| **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** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | 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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 23.400 A @ 208.0 V |
| | 21.800 A @ 230.0 V |
| | 10.900 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |

## Part Detail

| | |
|---|---|
| **Revision** | Q |
| **Type** | AC |
| **Mech. spec.** | 09L575 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGT572 |
| **Layout** | 09LYL575 |
| **Eff. date** | 06-24-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#12 Y |
| **Proprietary** | False |
| **Created date** | 05-17-2018 |

| | |
|---|---|
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 10.9 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | M |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 12 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0954M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 24.77 IN |
| **Power Factor** | 71 |
| **Product Family** | Super-E Chemical Processing |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 1.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1180 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**

| NP3293 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECR9076T | | **P/N** | | | | **ENCLOSURE** | TEFC | | | | | |
| **SPEC.** | 09L575T572G1 | **CC** | 010A | **FRAME** | 254T | | **S/N** | | | | | | |
| **HP** | 7.5 | **CLASS** | F | **HZ** | 60 | **DES** | A | | | | | | |
| **RPM** | 1180 | **RPM MAX** | 1800 | **PH** | 3 | **KVA-CODE** | M | | | | | | |
| **VOLT** | 230/460 | | | **I.P.** | 55 | | | | | | | | |
| **AMP** | 21.8/10.9 | | **SER.F.** | 1.25 | **PF** | 71 | **ODE BRG** | 6309 | **DE BRG** | 6311 | | | |
| **RATING** | 40C AMB-CONT | | **NEMA-NOM-EFF** | 91 | **GREASE** | POLYREX EM | | | | | | | |
| **HTR-VOLTS** | **HTR-AMPS** | | **HTR-WATTS** | | **INV.TYPE** | | | | | | | | |
| | SFA 26.4/13.2 | | | | | | | | | | | | |
| | | | **C HP FR** | 60 | **C HP TO** | 90 | | | | | | | |
| | | | **CT HZ FROM** | 6 | **CT HZ TO** | 60 | | | | | | | |
| | | | **MOTOR WEIGHT** | 302 | **VT HZ FROM** | 6 | **VT HZ TO** | 60 | | | | | |

**AC Induction Motor Performance Data**
Record # 73415
Typical performance - not guaranteed values

| **Winding:** 09WGT572-R001 | **Type:** 0954M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 33.37 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 21.8/10.9 | **Breakdown Torque** | 135 LB-FT |
| **R.P.M.** | | | 1180 | **Pull-up Torque** | 64.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 107 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | K | **Starting Current** | 94.2 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 6.27 A |
| **NEMA Nom. Eff.** | 91 | **Power Factor** | 74 | **Line-line Res. @ 25ºC** | 0.91046 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 36°C |
| **S.F. Amps** | | | 25.6/12.8 | **Temp. Rise @ S.F. Load** | 46°C |
| | | | | **Locked-rotor Power Factor** | 28.6 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 51 | 64 | 71 | 76 | 78 | 76 |
| **Efficiency** | 82.2 | 88.9 | 90.7 | 91 | 90.8 | 90.2 | 90.8 |
| **Speed** | 1196.4 | 1193.2 | 1189.6 | 1185.7 | 1181.5 | 1177.6 | 1182 |
| **Line amperes** | 6.7 | 7.73 | 9.18 | 10.9 | 12.8 | 14.9 | 12.8 |

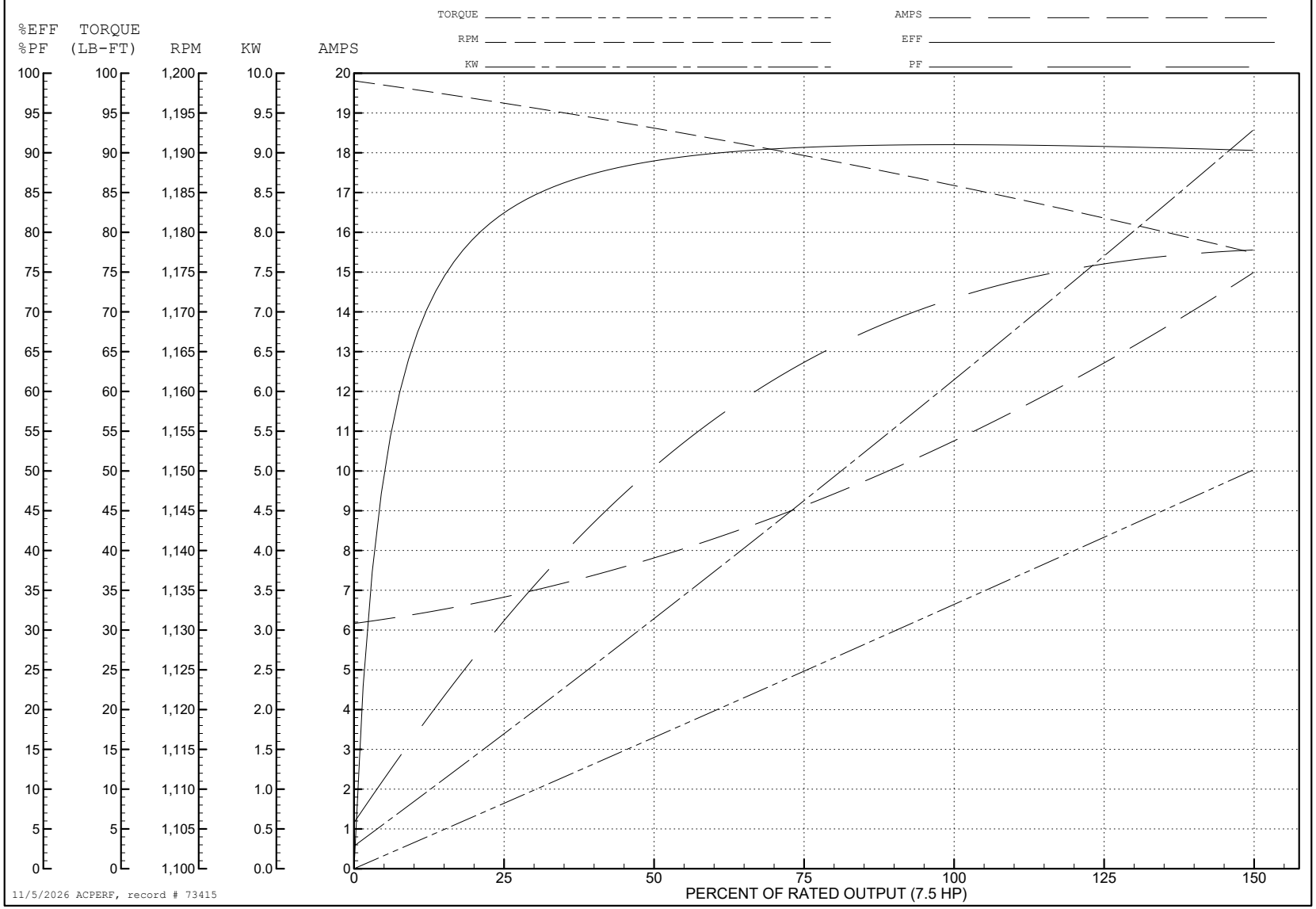
ABB Motors and Mechanical Inc.

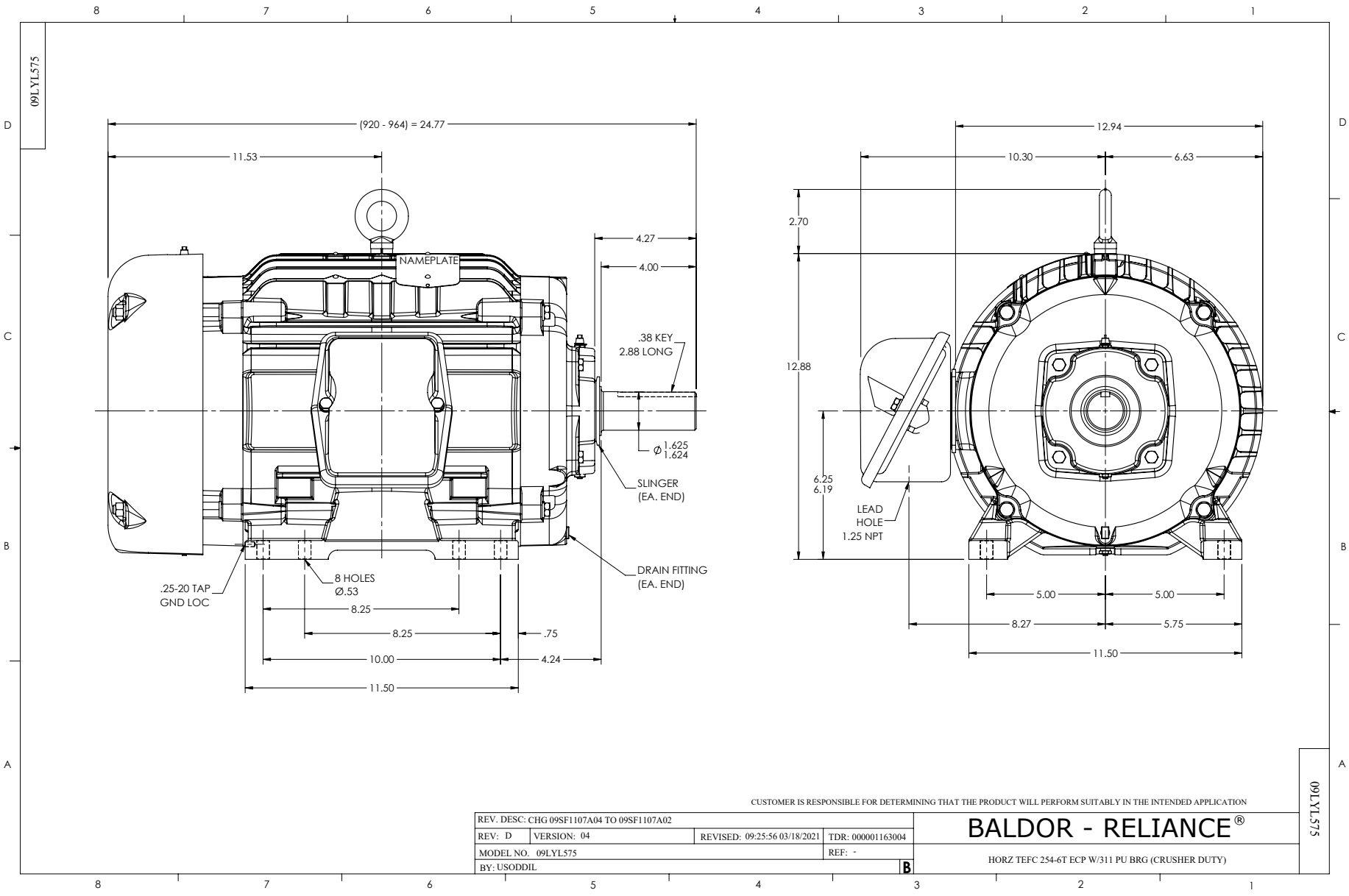
WINDING # 09WGT572

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

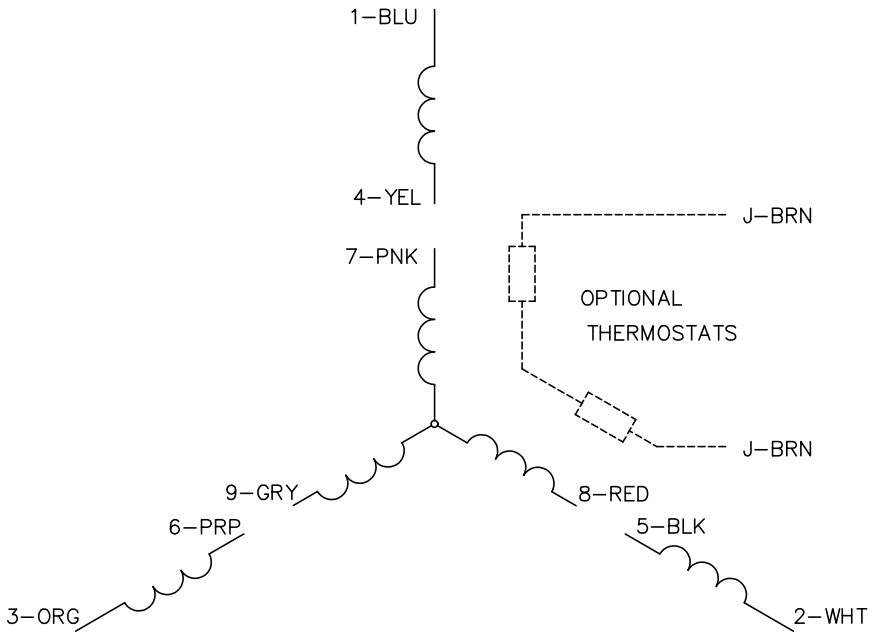
Typical performance - not guaranteed values.

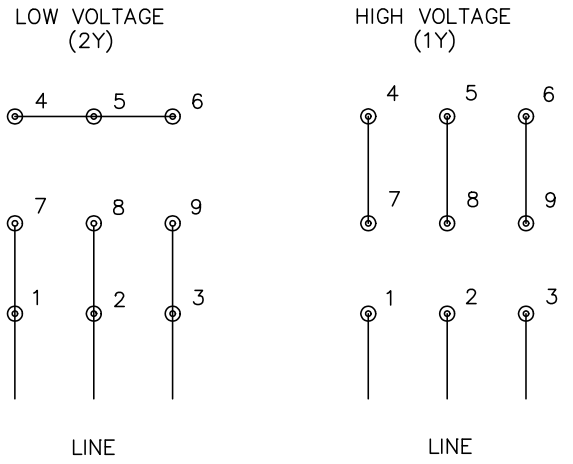
TORQUES(LB-FT): PO=135 PU=64.1 LR=107 LRA=94.2




09LYL575
(920 - 964) = 24.77
11.53
NAMEPLATE
4.27
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
SLINGER
(EA. END)
DRAIN FITTING
(EA. END)
.25-20 TAP
GND LOC
8 HOLES
Ø.53
8.25
8.25
.75
10.00
4.24
11.50
12.94
10.30
6.63
2.70
12.88
6.25
6.19
LEAD
HOLE
1.25 NPT
5.00
5.00
8.27
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG 09SF1107A04 TO 09SF1107A02
REV: D
VERSION: 04
REVISED: 09:25:56 03/18/2021
TDR: 000001163004
MODEL NO. 09LYL575
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
HORZ TEFC 254-6T ECP W/311 PU BRG (CRUSHER DUTY)
09LYL575

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 |