ABB BALDOR RELIANCE

# Customer information packet

## IDNM2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0948M, TENV
Class - None
Division - Not Applicable

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11/17/2026 12:08:33 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TENV |
| **Frame** | 254TC |
| **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** | 15.000 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** | UR |
| | CSA |
| **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** | 18.500 A @ 460.0 V |
| | 37.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Encoder/Feedback Device |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 18.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | AM |
| **Type** | AC |
| **Mech. spec.** | 09F278 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 09WGX946 |
| **Layout** | 09LYF278 |
| **Eff. date** | 08-28-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#12 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 5000 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 12 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0948M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 24.05 IN |
| **Power Factor** | 80 |
| **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** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **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** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1163L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT NO** | IDNM2333T | | | | | | | | |
| **SPEC.** | 09F278X946G1 | | | | | | | | |
| **FRAME** | 254TC | | | **HP** | 15 TE | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **MAG CUR** | 17.8/8.9 | | | | **FLA** | 37/18.5 | | | |
| **RPM** | 1765 | | | **RPM MAX** | 5000 | | | | |
| **HZ** | 60 | **PH** | 3 | | **CLASS** | H | | | |
| **SER.F.** | 1.00 | **DES** | A | | | **SL HZ** | 1 | | |
| **NEMA-NOM-EFF** | 92.4 | | **WK2** | 2.1 | | | | | |
| **BLWR V** | | **PH** | | **HZ** | | **A** | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **DE BRG** | 6309 | | | **ODE BRG** | 6208 | | | | |
| **CC** | 010A | **SN** | | | | | | | |
| | 1000:1 CT, 1000:1 VT | | | | | | | | |

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## AC Induction Motor Performance Data

Record # 1828
Typical performance - not guaranteed values

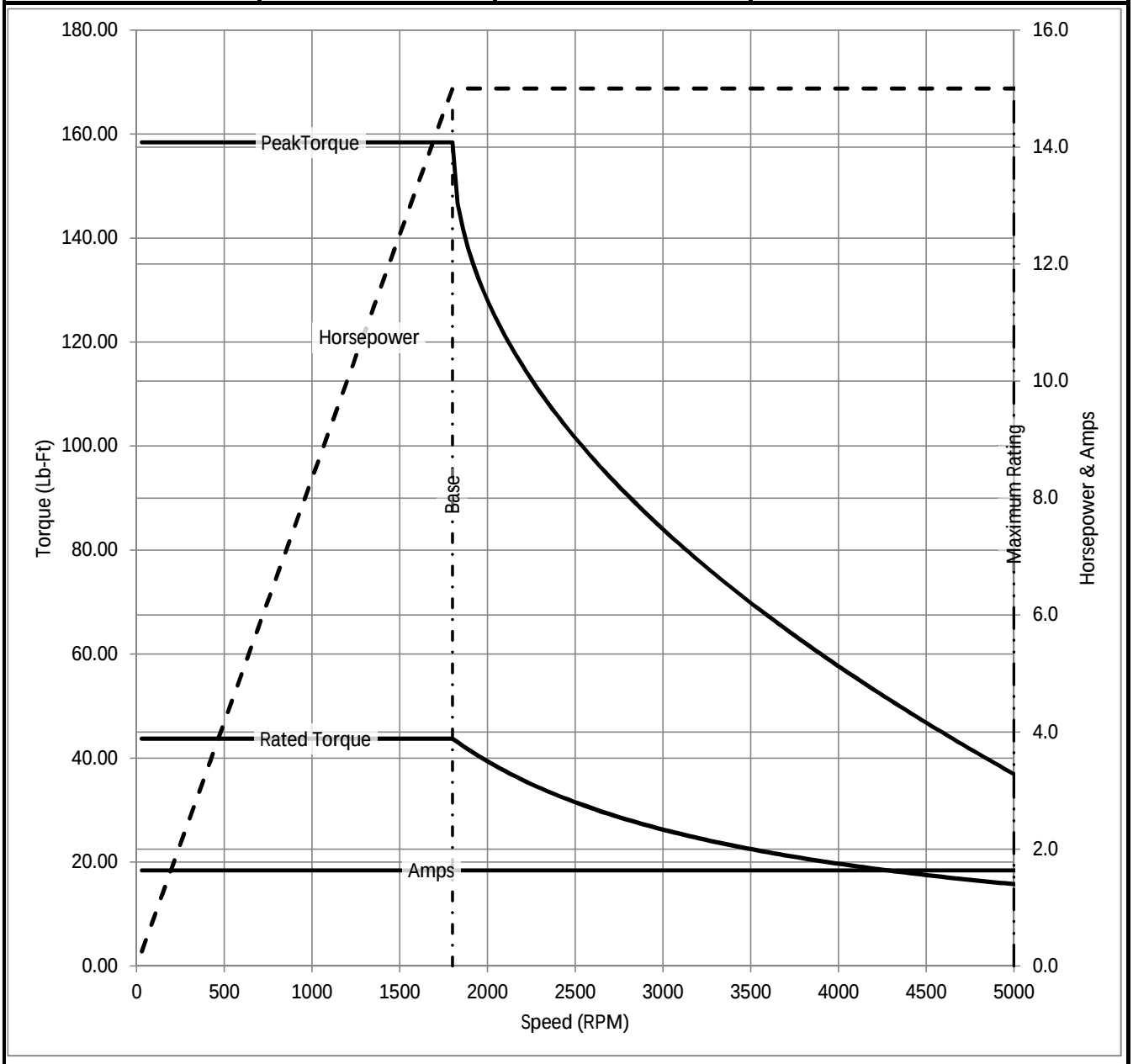
| **Winding:** 09WGX946 | **Type:** 0948M | **Enclosure:** TENV |
|---|---|---|

| Nameplate Data | | | | General Characteristics at 460 V, 60 Hz: High Volt Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | 15 | | | Full Load Torque | 45 LB-FT |
| Volts | 230/460 | | | Start Configuration | DOL |
| Full Load Amps | 37/18.5 | | | Break Down Torque | 176 LB-FT |
| R.P.M. | 1765 | | | Pull-Up Torque | 91 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 102 LB-FT |
| NEMA Design Code | A | KVA Code | K | Starting Current | 161 Amps |
| Service Factor | 1 | | | No-load Current | 8.9 Amps |
| NEMA Nom. Eff. | 94.1 | P.F. | 80 | Line-line Res. @ 25°C. | 0.464 Ohms |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 89°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | |

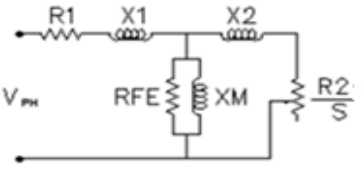
Load Characteristics at 460 Volts, 60 Hz, 15 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| Power Factor | 40 | 63 | 74 | 81 | 84 | 86 | |
| Efficiency | 88.7 | 93 | 94 | 94.1 | 93.7 | 93.2 | |
| Speed | 1793 | 1787 | 1780 | 1771 | 1763 | 1755 | |
| Line Amperes | 9.9 | 12 | 15 | 18.4 | 22.2 | 26.3 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Catalog | IDNM2333T | NP VOLTS | 230/460 | ENCLOSURE | TENV | WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) | | | |
| FRAME | 254TC | NP AMPS | 37/18.5 | Base Volts | 460 | R1 | 0.216 | X1 | 0.904 |
| HP | 15 HP | DUTY | Cont | Base AMPS | 18.4 | R2 | 0.181 | X2 | 1.094 |
| BASE SPEED | 1800 | MAX SAFE RPM | 5000 | Slip Hz | 0.97 | | | XM | 26.421 |
| PHASE/HZ | 3/60 | AMB$^0$C/INSUL | 40/H | WK$^2$ (lb-ft$^2$) | 2.1 | | | | |




Remarks: Calculated Data



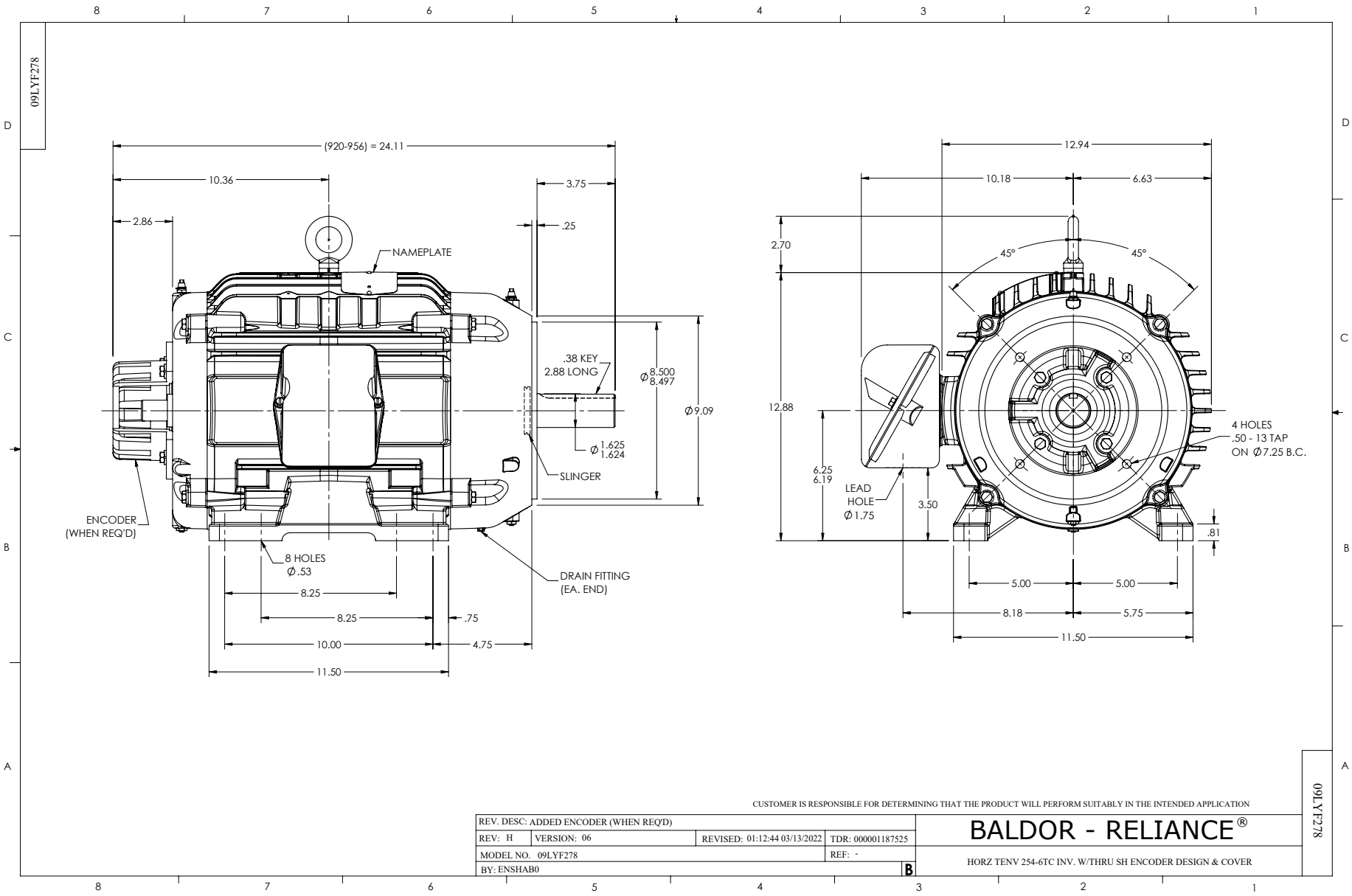

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CK BY
APP BY ENR
DATE 2/28/2013

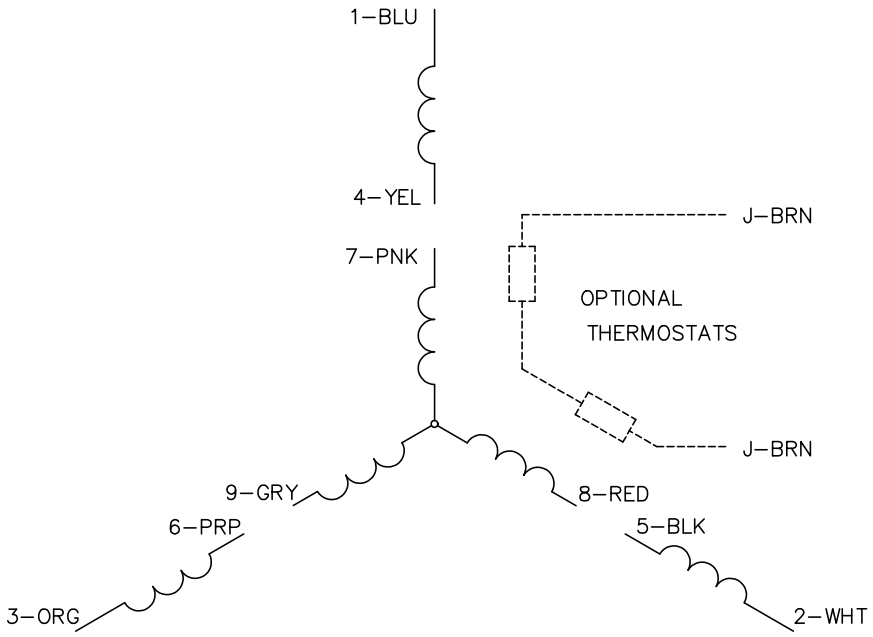
A-C MOTOR
PERFORMANCE CURVES

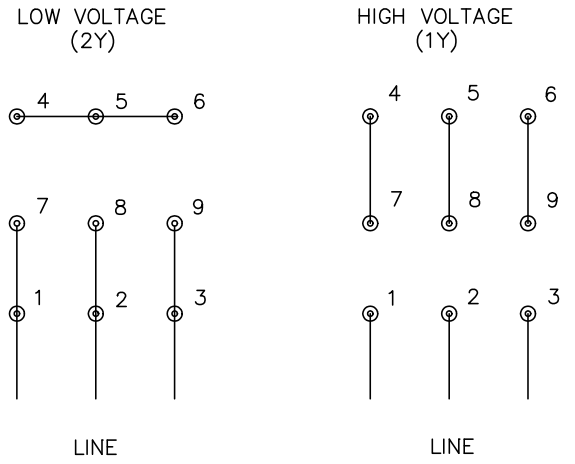
**09F278X946G1**

ISSUE DATE 2/28/2013


09LYF278
(920-956) = 24.11
10.36
3.75
2.86
.25
NAMEPLATE
.38 KEY
2.88 LONG
Ø8.500
8.497
Ø9.09
Ø1.625
1.624
SLINGER
ENCODER
(WHEN REQ'D)
8 HOLES
Ø.53
DRAIN FITTING
(EA. END)
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.18
6.63
2.70
45°
45°
12.88
4 HOLES
.50 - 13 TAP
ON Ø7.25 B.C.
6.25
6.19
LEAD
HOLE
Ø1.75
3.50
.81
5.00
5.00
8.18
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED ENCODER (WHEN REQ'D)
REV: H
VERSION: 06
REVISED: 01:12:44 03/13/2022
TDR: 000001187525
MODEL NO. 09LYF278
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HORZ TENV 254-6TC INV. W/THRU SH ENCODER DESIGN & COVER
09LYF278

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 |