ABB BALDOR RELIANCE

# Customer information packet

## EJMM3709T

7.5HP, 3520RPM, 3PH, 60HZ, 213JM, 3728M, TEFC
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213JM |
| **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** | 7.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | NEMA PREMIUM |
| | 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** | 9.000 A @ 460.0 V |
| | 19.000 A @ 208.0 V |
| | 18.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 37M031 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGL869 |
| **Layout** | 37LYM031 |
| **Eff. date** | 04-22-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 11-18-2020 |

| | |
|---|---|
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3728M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 19.76 IN |
| **Power Factor** | 84 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 3520 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**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJMM3709T | | | | | | | | | |
| **SPEC** | 37M031L869G1 | | | | | | | | | |
| **HP** | 7.5 | | | | | | | | | |
| **VOLTS** | 208-230/460 | | | | | | | | | |
| **AMPS** | 19-18/9 | | | | | | | | | |
| **RPM** | 3520 | | | | | | | | | |
| **FRAME** | 213JM | **HZ** | 60 | | | **PH** | 3 | | | |
| **SF** | 1.15 | **CODE** | J | **DES** | A | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 84 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6309 | **ODE** | 6206 | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50HZ 7.5HP 190/380V 22/11.0A | | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 85603
Preliminary Data Sheet

| **Winding:** 37WGL869-R001 | **Type:** 3728M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 11.2 LB-FT |
| **Volts** | | | 208-230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 19-18/9 | **Breakdown Torque** | 40.3 LB-FT |
| **R.P.M.** | | | 3520 | **Pull-up Torque** | 19.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 21.8 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 68.4 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.52 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 84 | **Line-line Res. @ 25ºC** | 1.19 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 50°C |
| **S.F. Amps** | | | 21-20/10 | **Temp. Rise @ S.F. Load** | 63°C |
| | | | | **Locked-rotor Power Factor** | 38.1 |
| | | | | **Rotor inertia** | 0.255 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 49 | 71 | 81 | 86 | 88 | 89 | 87 |
| **Efficiency** | 83.9 | 89.7 | 91 | 90.9 | 90.2 | 89.2 | 90.3 |
| **Speed** | 3580 | 3560 | 3540 | 3518 | 3494 | 3468 | 3500 |
| **Line amperes** | 4.1 | 5.4 | 7.06 | 8.96 | 11 | 13.2 | 10.2 |

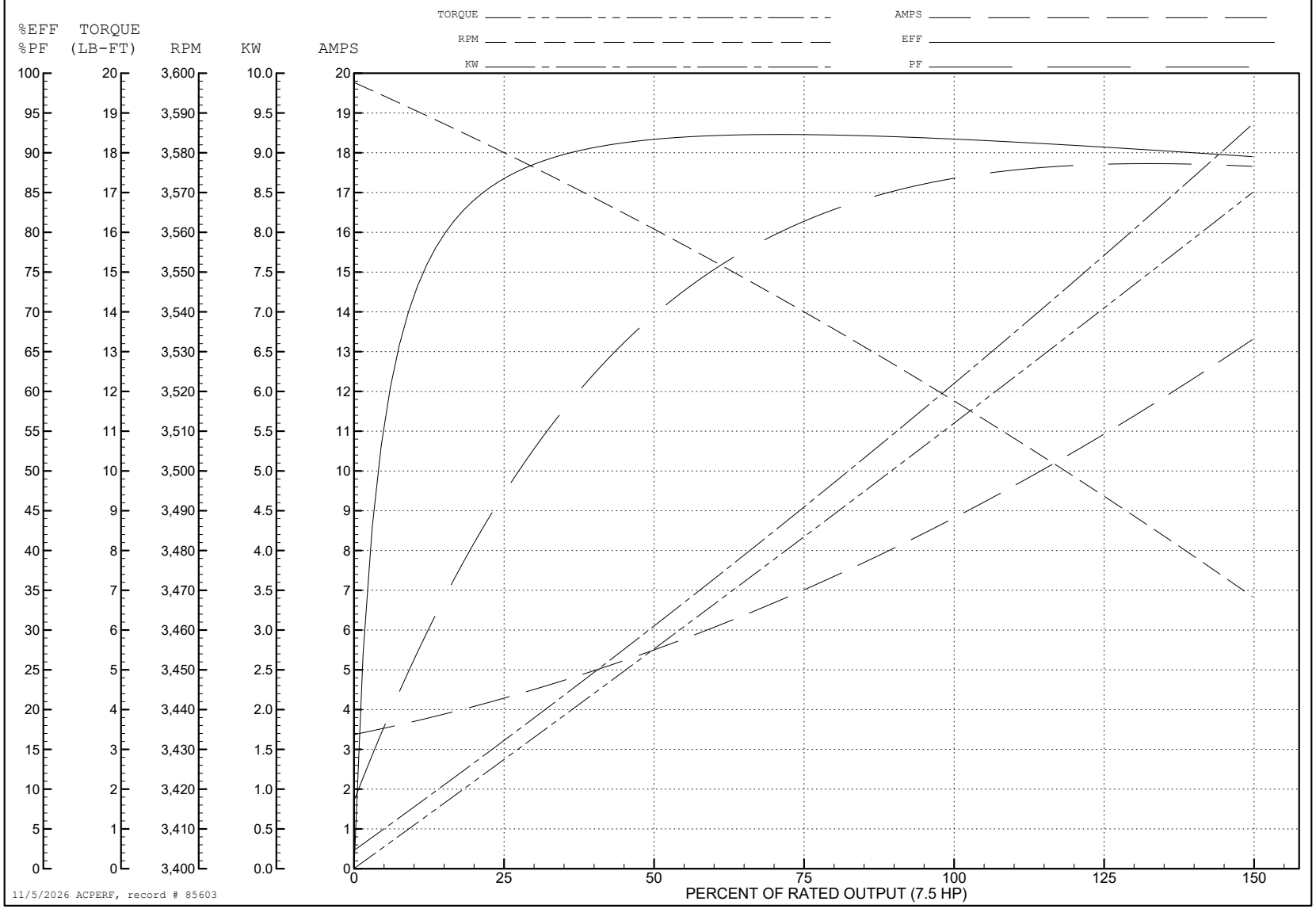
ABB Motors and Mechanical Inc.

WINDING # 37WGL869

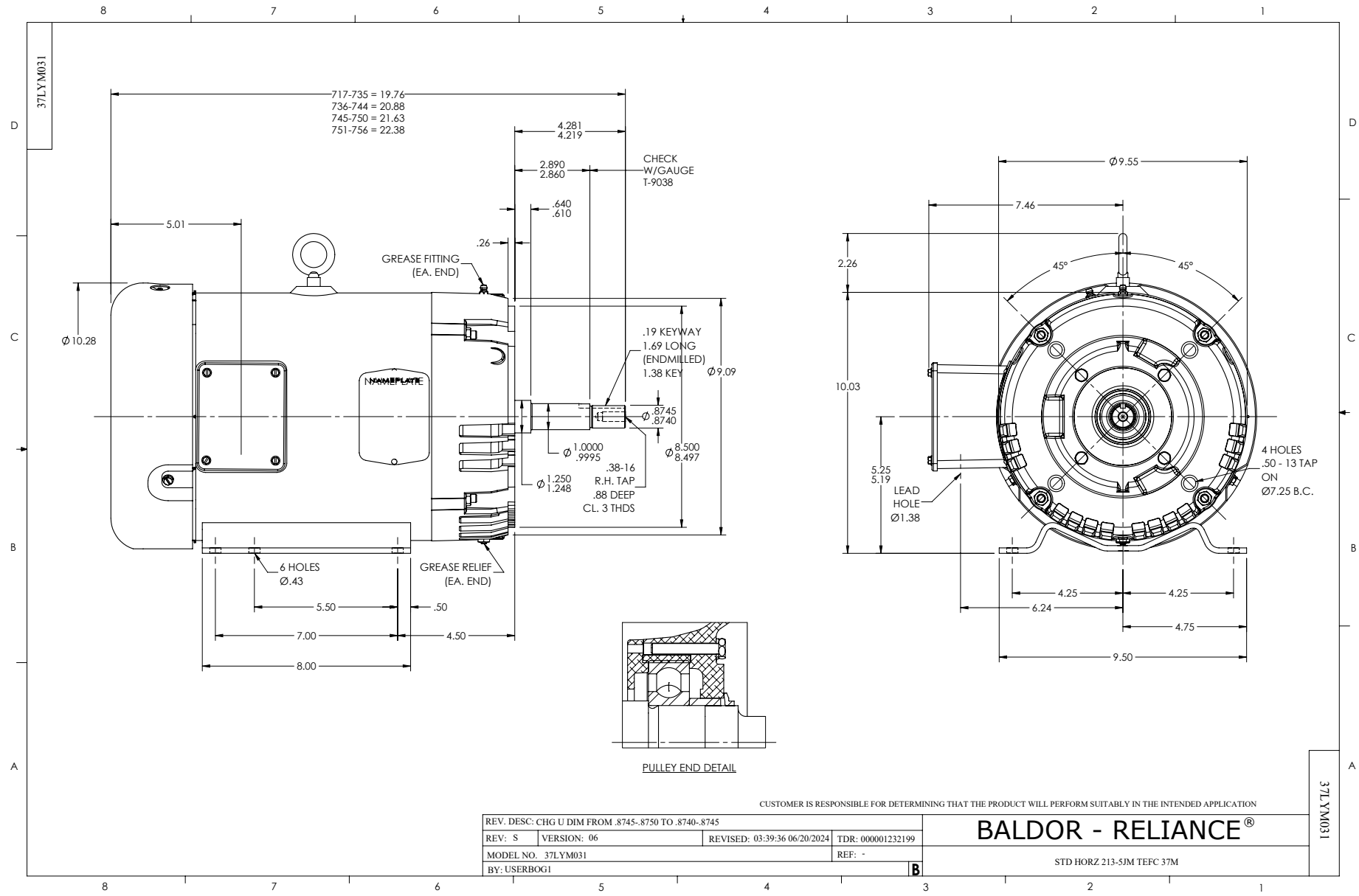
7.5 HP 3 PH 60 HZ 3520 RPM 460 V 3728M

Typical performance - not guaranteed values.

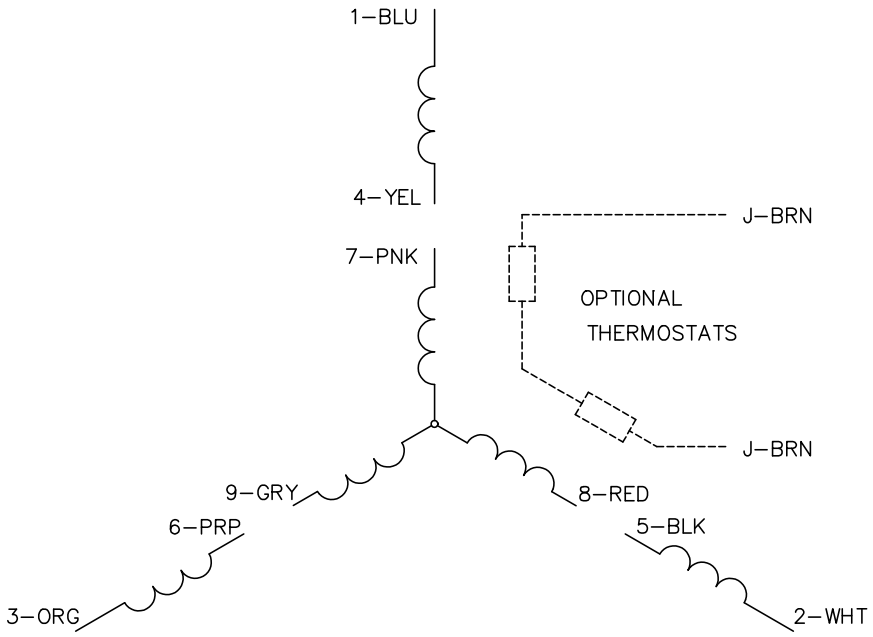
TORQUES(LB-FT): PO=40.3 PU=19.7 LR=21.8 LRA=68.4

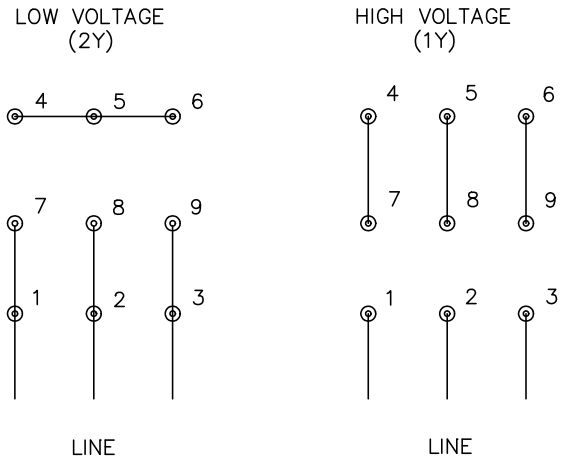



11/5/2026 ACPERF, record # 85603


37LYM031
717-735 = 19.76
736-744 = 20.88
745-750 = 21.63
751-756 = 22.38
4.281
4.219
2.890
2.860
CHECK
W/GAUGE
T-9038
.640
.610
5.01
.26
GREASE FITTING
(EA. END)
Ø 10.28
NAMEPLATE
.19 KEYWAY
1.69 LONG
(ENDMILLED)
1.38 KEY
Ø9.09
Ø .8745
.8740
Ø 1.0000
.9995
Ø 1.250
1.248
.38-16
R.H. TAP
.88 DEEP
CL. 3 THDS
Ø 8.500
8.497
6 HOLES
Ø.43
GREASE RELIEF
(EA. END)
5.50
.50
7.00
4.50
8.00
Ø9.55
7.46
2.26
45°
45°
10.03
5.25
5.19
LEAD
HOLE
Ø1.38
4 HOLES
.50 - 13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.24
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG U DIM FROM .8745-.8750 TO .8740-.8745
REV: S
VERSION: 06
REVISED: 03:39:36 06/20/2024
TDR: 000001232199
MODEL NO. 37LYM031
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
STD HORZ 213-5JM TEFC 37M
37LYM031

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 |