ABB BALDOR RELIANCE

# Customer information packet

## VSPM3710T

7.5HP, 1775RPM, 3PH, 60HZ, 213TC, 3752M, TEFC
Class - None
Division - Not Applicable

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11/18/2026 10:19:25 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 213TC |
| **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** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | WEEE |
| | NEMA PREMIUM 4 |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 19.800 A @ 230.0 V |
| | 9.900 A @ 460.0 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 Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.9 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | AC |
| **Mech. spec.** | 37T656 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGZ668 |
| **Layout** | 37LYT656 |
| **Eff. date** | 11-19-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 11-29-2023 |

| | |
|---|---|
| **Inverter Code** | Inverter Duty |
| **KVA Code** | L |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3752M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 21.25 IN |
| **Power Factor** | 76 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1775 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**

| NP4423A01A01L | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | VSPM3710T | | | **WGT** | 165 | **LBS** | | | | | | |
| **SPEC** | 37T656Z668 | | | **ENCL** | TEFC | | | | | | | |
| **SER #** | | | | **CC** | 010A | **IP** | 54 | | | | | |
| **HP** | 7.5 | | | **MAG CUR** | 10.6/5.3 | | | | | | | |
| **VOLTS** | 230/460 | | | | | **NEMA NOM. EFF** | 92.4 | | | | | |
| **AMPS** | 19.8/9.9 | | | | | **PF** | 76 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1775 | | | | | **MAX RPM** | 2700 | | | | | |
| **FRAME** | 213TC | **HZ** | 60 | **CODE** | L | **CLASS** | F | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 22.2/11.1 | | | **PH** | 3 | **DES** | A | | | |
| **DE** | 6307 | | | **ODE** | 6206 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | | **INVERTER TYPE** | | **VPWM** | | **CHP** | 60 | **TO** | 90 | 1.5:1 | | |
| **ID LOGO** | **WK2** | 1.28 | **CT** | 6 | **TO** | 60 | | 10:1 | | | | |
| **ID LOGO** | **SL HZ** | 0.8 | **VT** | 3 | **TO** | 60 | | 20:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | **QR** | | | | | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 96653
Typical performance - not guaranteed values

| **Winding:** 37WGZ668-R001 | **Type:** 3752M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 22.15 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 19.8/9.9 | **Breakdown Torque** | 103 LB-FT |
| **R.P.M.** | | | 1775 | **Pull-up Torque** | 44.6 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 62.6 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | L | **Starting Current** | 102 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 5.4 A |
| **NEMA Nom. Eff.** | 92.4 | **Power Factor** | 76 | **Line-line Res. @ 25ºC** | 0.91163 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 44°C |
| **S.F. Amps** | | | 22.2/11.1 | **Temp. Rise @ S.F. Load** | 52°C |
| | | | | **Locked-rotor Power Factor** | 34.8 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 35 | 56 | 69 | 76 | 80 | 82 | 78 |
| **Efficiency** | 86.4 | 91.6 | 92.9 | 93.2 | 92.9 | 92.4 | 93 |
| **Speed** | 1794.5 | 1789.7 | 1784.9 | 1779.7 | 1774.4 | 1768.6 | 1777 |
| **Line amperes** | 5.84 | 6.87 | 8.27 | 9.94 | 11.8 | 13.8 | 11.1 |

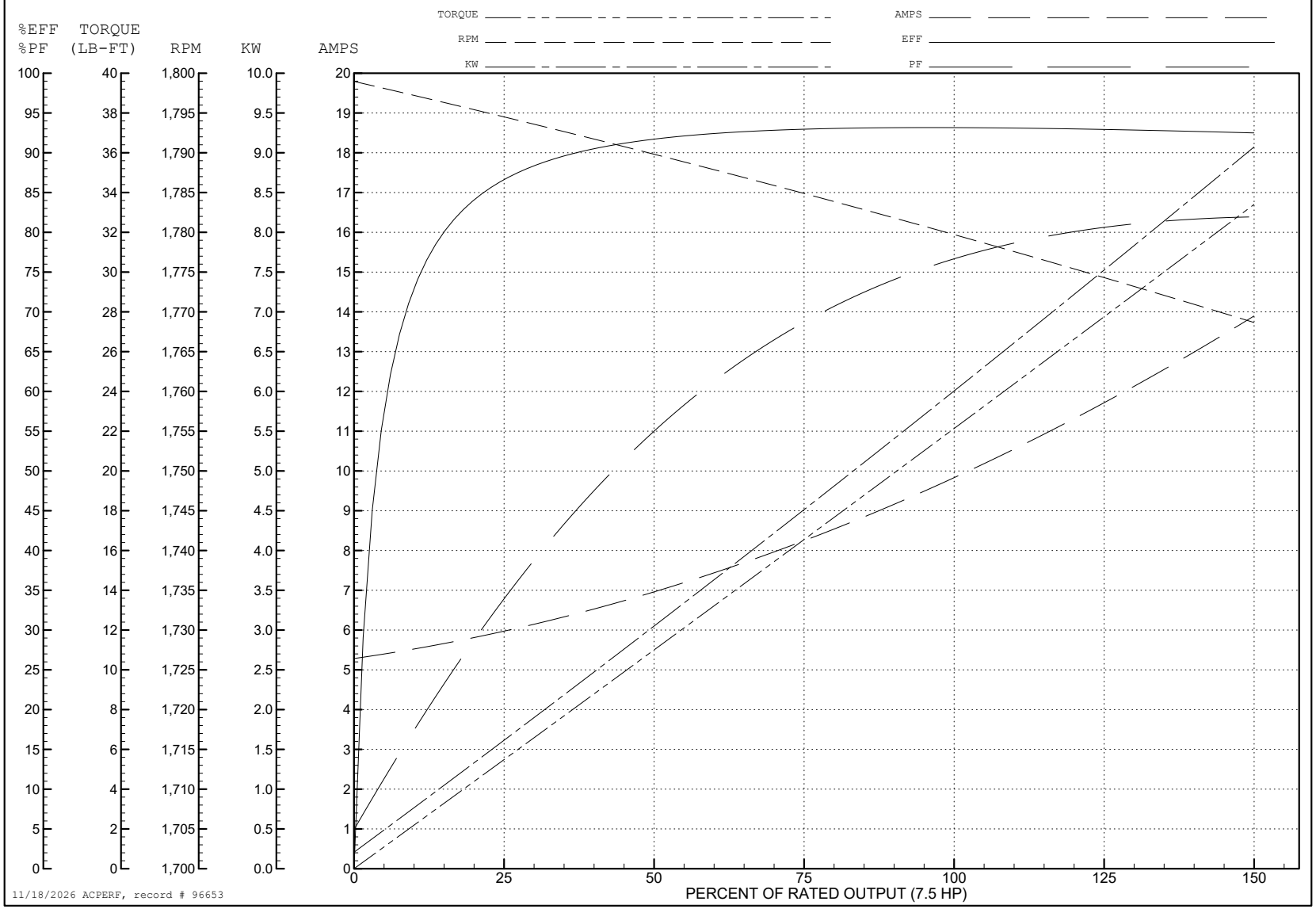
ABB Motors and Mechanical Inc.

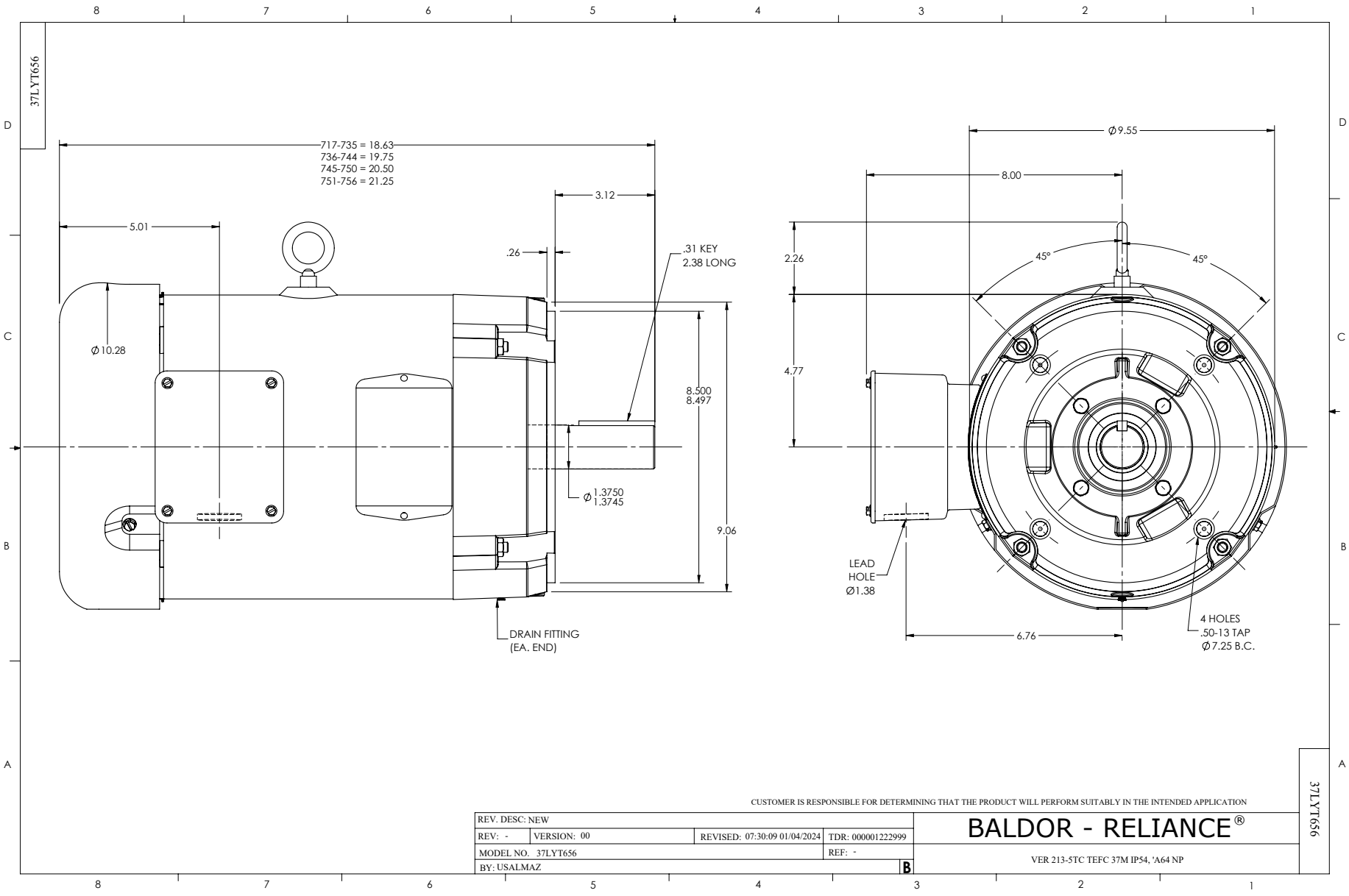
WINDING # 37WGZ668

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 3752M

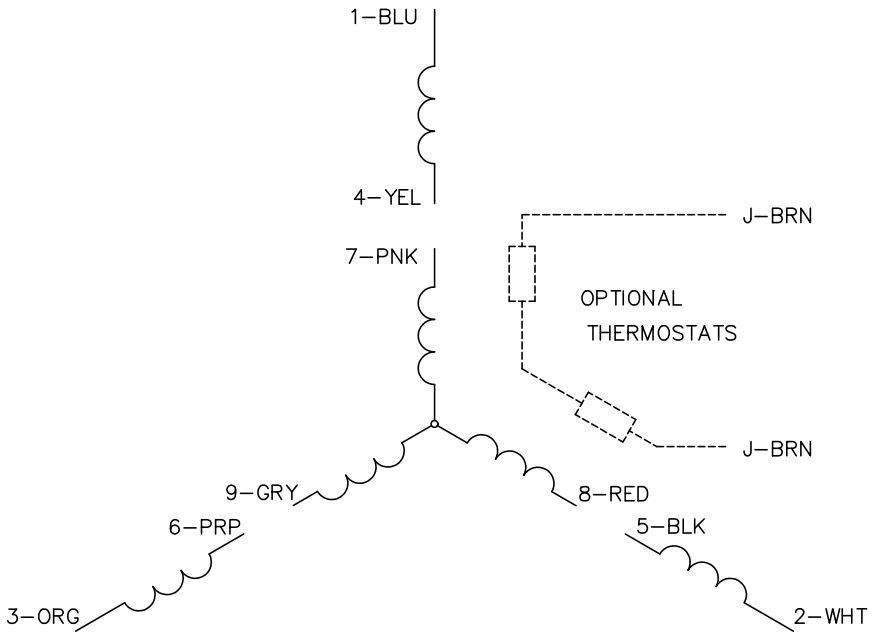
Typical performance - not guaranteed values.

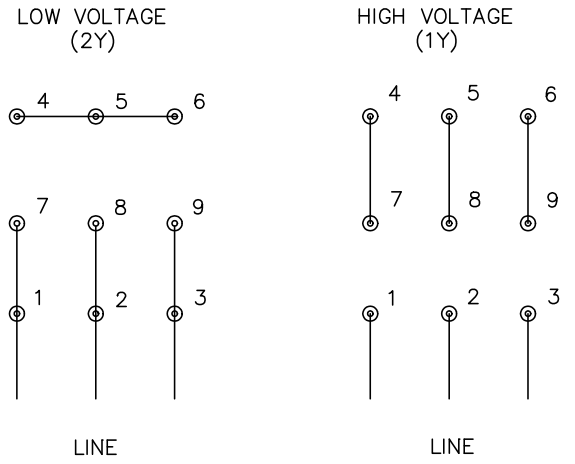
TORQUES(LB-FT): PO=103 PU=44.6 LR=62.6 LRA=102




37LYT656
717-735 = 18.63
736-744 = 19.75
745-750 = 20.50
751-756 = 21.25
5.01
3.12
.26
.31 KEY
2.38 LONG
Ø10.28
8.500
8.497
Ø1.3750
1.3745
9.06
DRAIN FITTING
(EA. END)
Ø9.55
8.00
2.26
45°
45°
4.77
LEAD
HOLE
Ø1.38
6.76
4 HOLES
.50-13 TAP
Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 07:30:09 01/04/2024 TDR: 000001222999
MODEL NO. 37LYT656 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
VER 213-5TC TEFC 37M IP54, 'A64 NP
37LYT656

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 |