ABB BALDOR RELIANCE

# Customer information packet

## SPM3305T

3HP, 1165RPM, 3PH, 60HZ, 213T, 3740M, OPSB, F1
Class - None
Division - Not Applicable

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11/22/2026 6:37:13 AM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 213T |
| **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** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM 4 |
| | 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** | 4.500 A @ 460.0 V |
| | 9.000 A @ 230.0 V |
| | 9.800 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 90.2 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | AC |
| **Mech. spec.** | 37T645 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGT976 |
| **Layout** | 37LYT645 |
| **Eff. date** | 05-03-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 09-05-2023 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3740M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 17.45 IN |
| **Power Factor** | 70 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **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** | 1165 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 #** | SPM3305T | | | | **WGT** | 127 | **LBS** | | | | | |
| **SPEC** | 37T645T976 | | | | **ENCL** | OPSB | | | | | | |
| **SER #** | | | | | **CC** | 010A | **IP** | 22 | | | | |
| **HP** | 3 | | | **MAG CUR** | 5/2.5 | | | | | | | |
| **VOLTS** | 230/460 | | | | | | **NEMA NOM. EFF** | 90.2 | | | | |
| **AMPS** | 9/4.5 | | | | | **PF** | 70 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1165 | | | | **MAX RPM** | 1800 | | | | | | |
| **FRAME** | 213T | **HZ** | 60 | | **CODE** | K | **CLASS** | F | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 10/5 | | | **PH** | 3 | **DES** | B | | | |
| **DE** | 6307 | | | **ODE** | 6206 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | **INVERTER TYPE** | | | **VPWM** | | **CHP** | 60 | **TO** | 90 | 1.5:1 | | |
| **ID LOGO** | **WK2** | 0.99 | **CT** | 6 | **TO** | 60 | 10:1 | | | | | |
| **ID LOGO** | **SL HZ** | 1.75 | **VT** | 3 | **TO** | 60 | 20:1 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | **QR** | | | | | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 100921
Typical performance - not guaranteed values

| **Winding:** 37WGT976-R019 | **Type:** 3740M | **Enclosure:** ODP |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 13.48 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 9/4.5 | **Breakdown Torque** | 48.2 LB-FT |
| **R.P.M.** | | | 1165 | **Pull-up Torque** | 32.3 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 39.1 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 33.8 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.48 A |
| **NEMA Nom. Eff.** | 90.2 | **Power Factor** | 70 | **Line-line Res. @ 25ºC** | 2.44 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 34°C |
| **S.F. Amps** | | | 10/5 | **Temp. Rise @ S.F. Load** | 40°C |
| | | | | **Locked-rotor Power Factor** | 22.4 |
| | | | | **Rotor inertia** | 0.995 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 50 | 62 | 69 | 73 | 76 | 71 |
| **Efficiency** | 81.8 | 88.7 | 90.4 | 90.2 | 89.6 | 87.7 | 89.8 |
| **Speed** | 1191 | 1184 | 1177 | 1170 | 1160 | 1150 | 1164 |
| **Line amperes** | 2.69 | 3.14 | 3.77 | 4.5 | 5.36 | 6.34 | 5.02 |

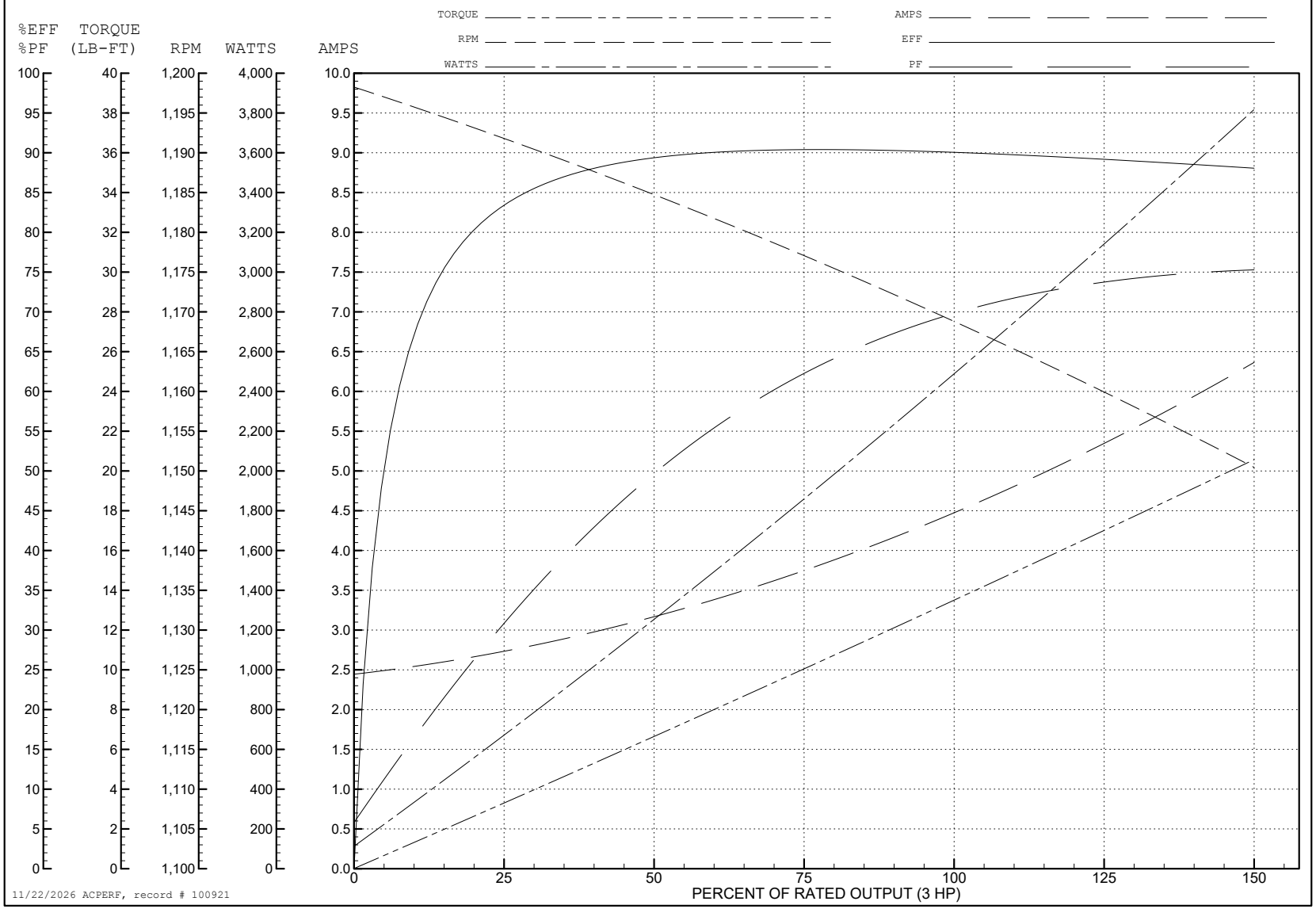
ABB Motors and Mechanical Inc.

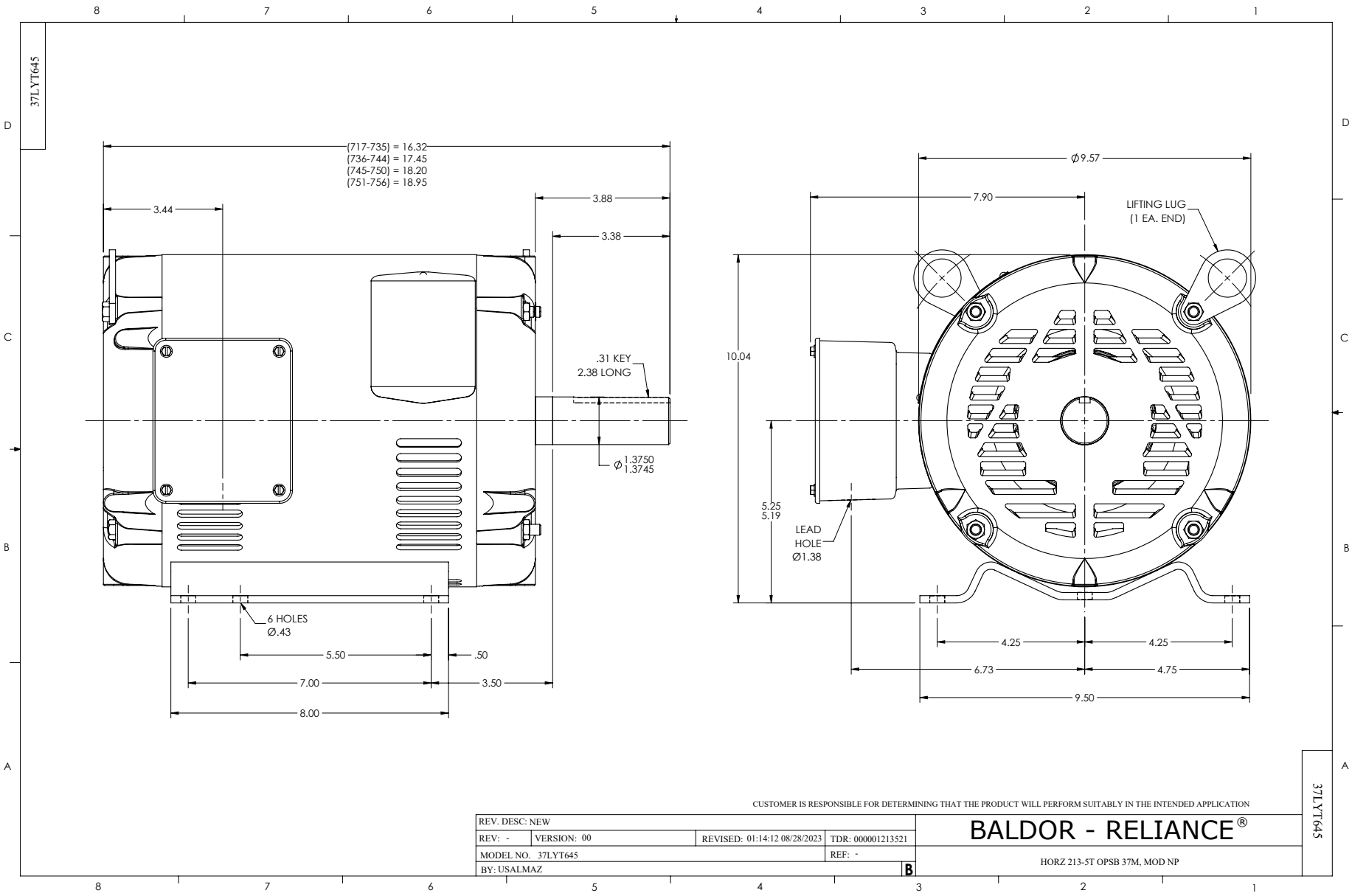
WINDING # 37WGT976

3 HP 3 PH 60 HZ 1165 RPM 460 V 3740M

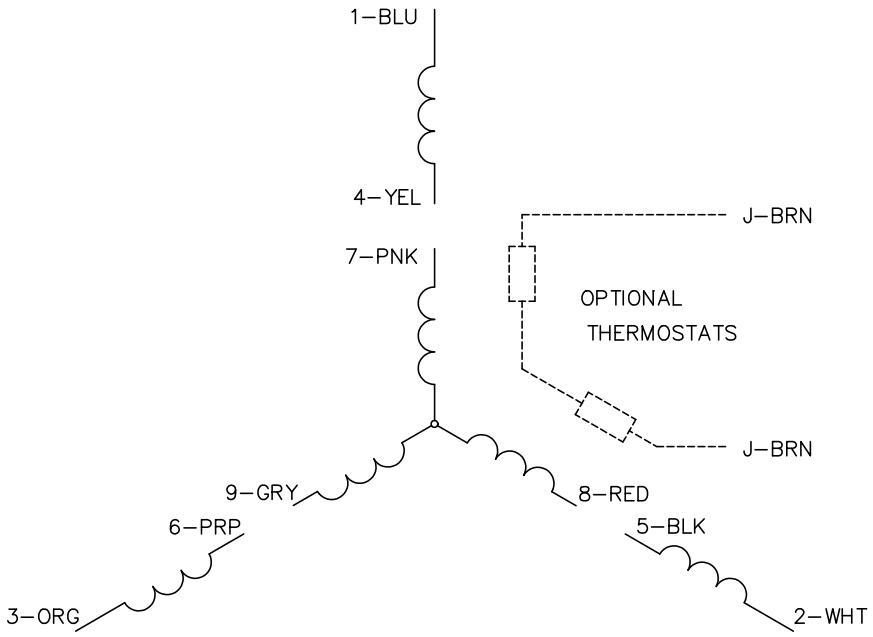
Typical performance - not guaranteed values.

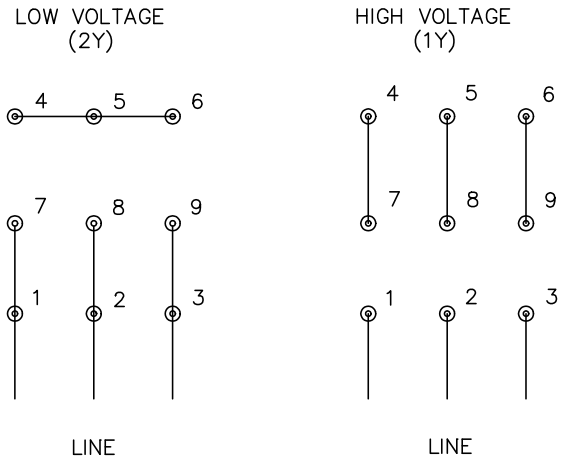
TORQUES(LB-FT): PO=48.2 PU=32.3 LR=39.1 LRA=33.8




37LYT645
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.57
7.90
LIFTING LUG
(1 EA. END)
10.04
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
6.73
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 01:14:12 08/28/2023 TDR: 000001213521
MODEL NO. 37LYT645 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
HORZ 213-5T OPSB 37M, MOD NP
37LYT645

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 |