BALDOR • RELIANCE

# Customer information packet

## VSPM3556T

1HP, 1170RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1
Class - None
Division - Not Applicable


12/22/2025 3:09:59 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TC |
| **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** | 1.000 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** | CURUSEEV |
| | NEMA_PREMIUM |
| | WEEE |
| **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** | 3.320 A @ 230.0 V |
| | 3.500 A @ 208.0 V |
| | 1.660 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 84.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 35E6391 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG824 |
| **Layout** | 35LYE6391 |
| **Eff. date** | 11-19-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 01-08-2024 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 1.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3532M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 14.19 IN |
| **Power Factor** | 67 |
| **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** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1170 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 #** | VSPM3556T | | | **WGT** | 47 | **LBS** | | | | | | |
| **SPEC** | 35E6391G824 | | | **ENCL** | TEFC | | | | | | | |
| **SER #** | | | | **CC** | 010A | **IP** | 54 | | | | | |
| **HP** | 1 | | | **MAG CUR** | 2.06/1.03 | | | | | | | |
| **VOLTS** | 230/460 | | | | | **NEMA NOM. EFF** | 84 | | | | | |
| **AMPS** | 3.32/1.66 | | | | | **PF** | 67 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1170 | | | | | **MAX RPM** | 1800 | | | | | |
| **FRAME** | 145TC | **HZ** | 60 | **CODE** | J | **CLASS** | F | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 3.68/1.84 | | | **PH** | 3 | **DES** | B | | | |
| **DE** | 6205 | | | **ODE** | 6203 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | **INVERTER TYPE** | | | **VPWM** | | **CHP** | 60 | **TO** | 90 | 1.5:1 | | |
| **ID LOGO** | **WK2** | 0.232 | **CT** | 6 | **TO** | 60 | | 10:1 | | | | |
| **ID LOGO** | **SL HZ** | 1.57 | **VT** | 3 | **TO** | 60 | | 20:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | **QR** | | | | | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 100796
Typical performance - not guaranteed values

| **Winding:** 35WGG824-R001 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | 1 | **Full Load Torque** | 4.47 LB-FT |
| **Volts** | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 2.06/1.03 | **Breakdown Torque** | 12.7 LB-FT |
| **R.P.M.** | | 1170 | **Pull-up Torque** | 7.4 LB-FT |
| **Hz** | 60 **Phase** | 3 | **Locked-rotor Torque** | 9 LB-FT |
| **NEMA Design Code** | B **KVA Code** | J | **Starting Current** | 9.5 A |
| **Service Factor (S.F.)** | | 1.15 | **No-load Current** | 1.03 A |
| **NEMA Nom. Eff.** | 84 **Power Factor** | 67 | **Line-line Res. @ 25ºC** | 18.3 Ω |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 42°C |
| **S.F. Amps** | | 3.68/1.84 | **Temp. Rise @ S.F. Load** | 50°C |
| | | | **Locked-rotor Power Factor** | 45.8 |
| | | | **Rotor inertia** | 0.232 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 29 | 46 | 59 | 67 | 72 | 75 | 70 |
| **Efficiency** | 74.5 | 82.7 | 84.4 | 84.2 | 82.9 | 80.7 | 83.4 |
| **Speed** | 1193 | 1186 | 1179 | 1171 | 1162 | 1151 | 1166 |
| **Line amperes** | 1.08 | 1.21 | 1.41 | 1.66 | 1.96 | 2.32 | 1.84 |

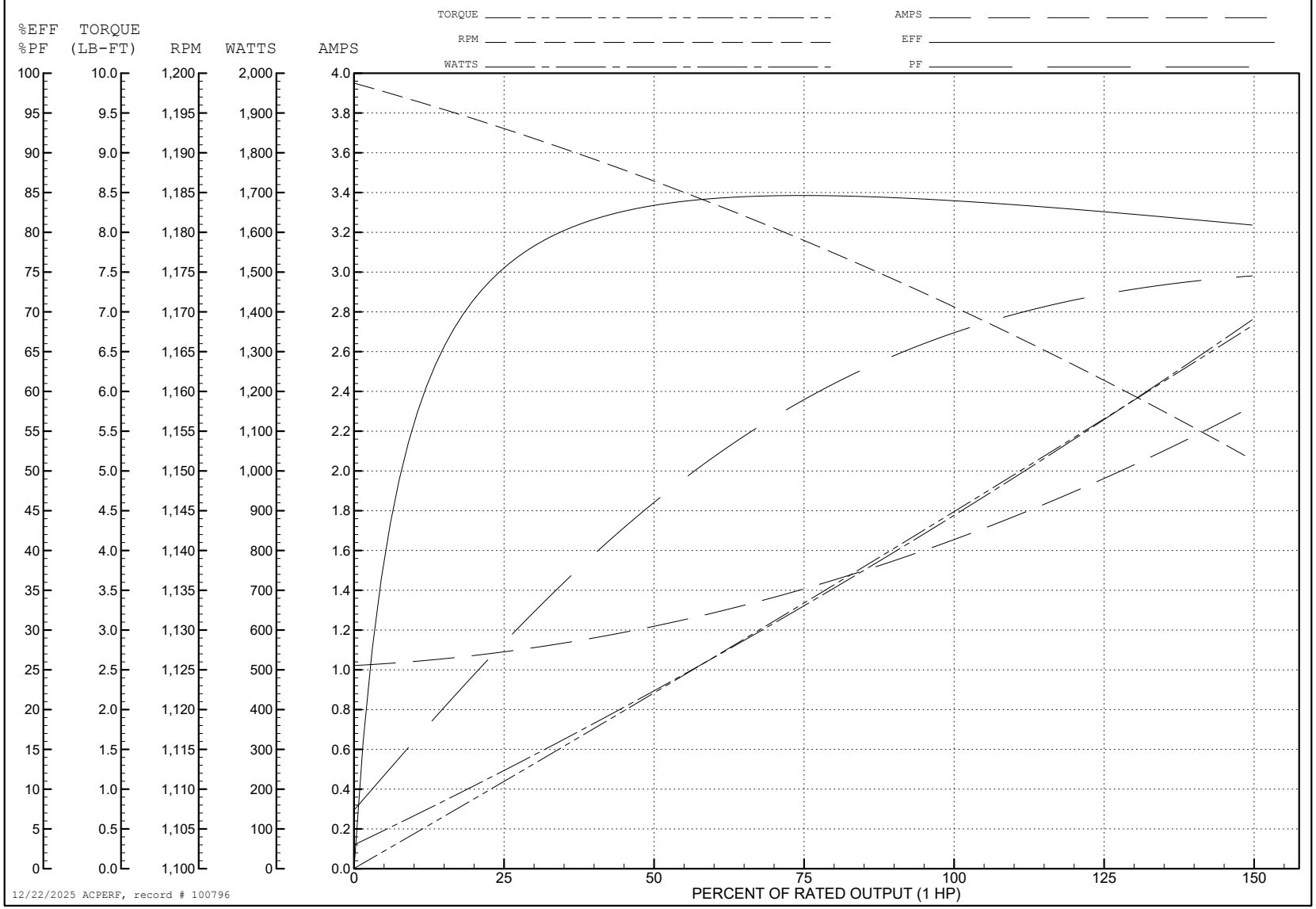
ABB Motors and Mechanical Inc.

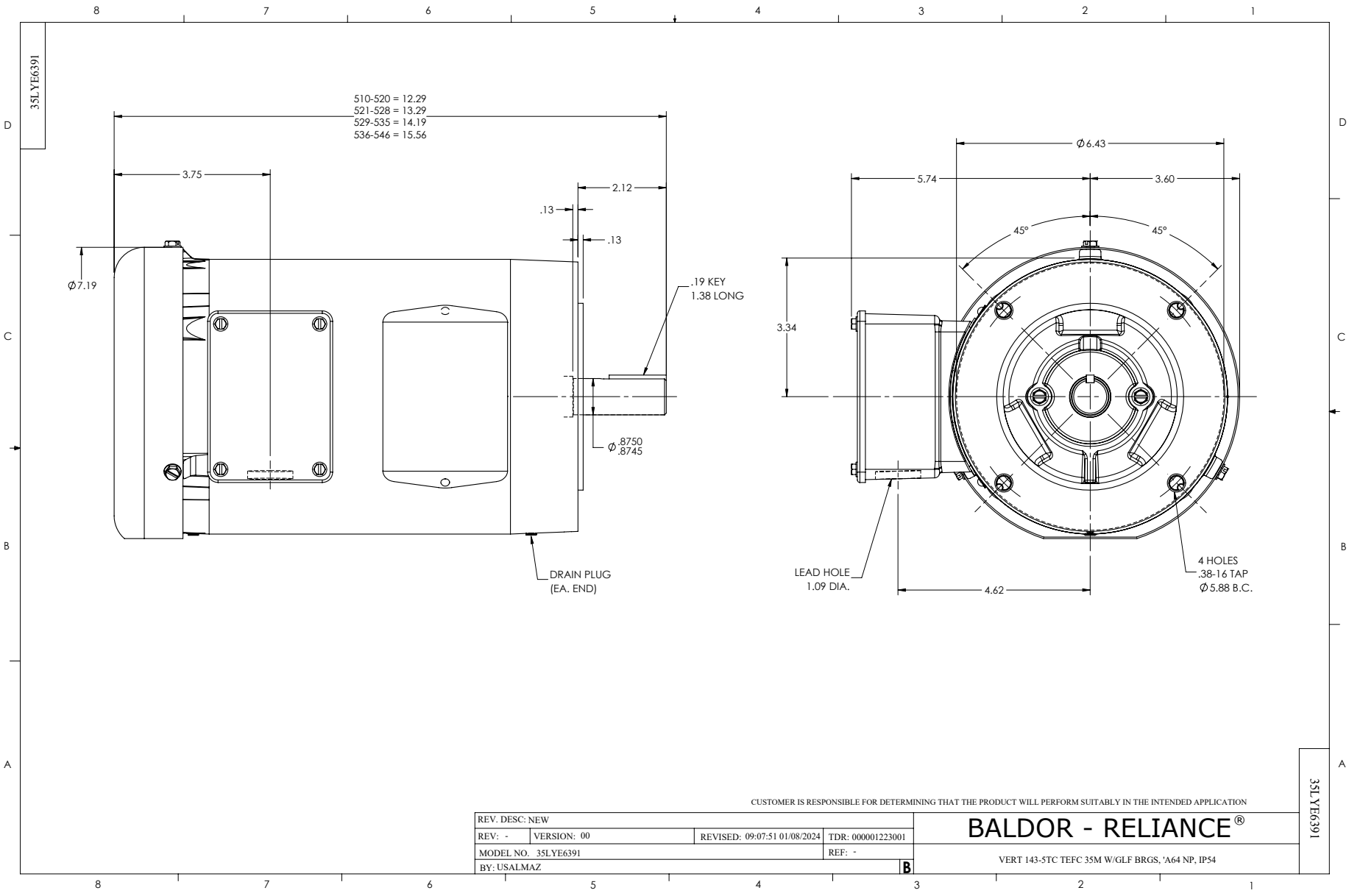
WINDING # 35WGG824

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

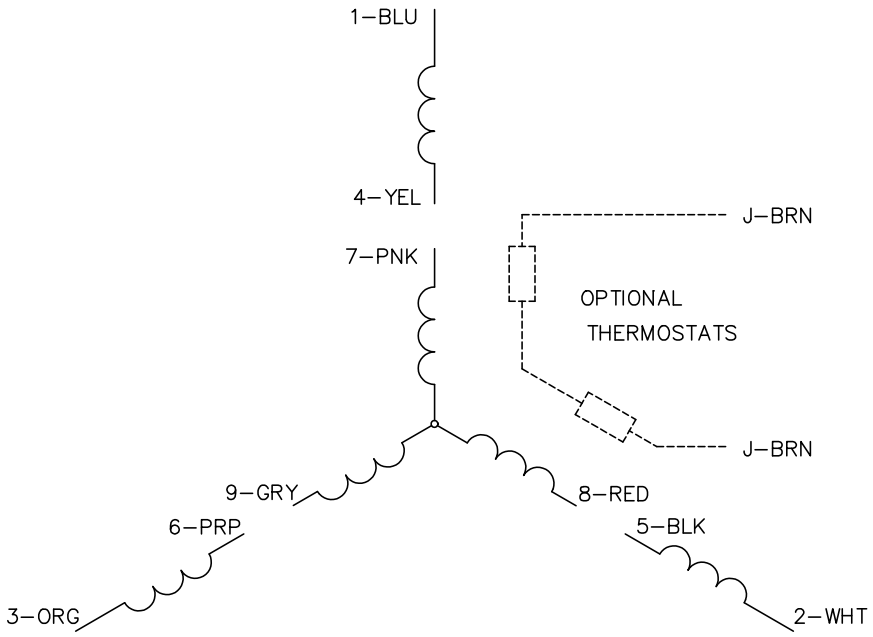
Typical performance - not guaranteed values.

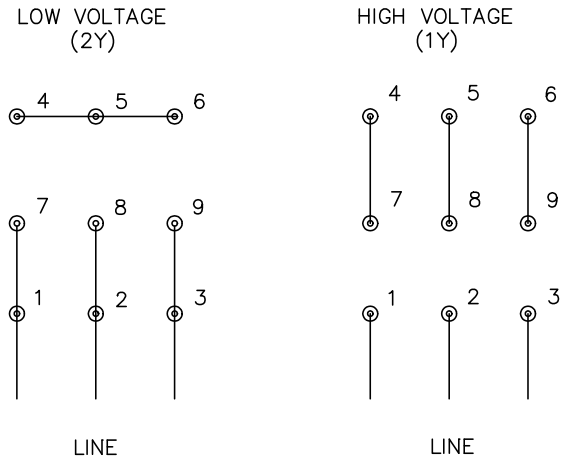
TORQUES(LB-FT): PO=12.7 PU=7.4 LR=9 LRA=9.5




35LYE6391
510-520 = 12.29
521-528 = 13.29
529-535 = 14.19
536-546 = 15.56
3.75
2.12
.13
.13
Ø7.19
.19 KEY
1.38 LONG
Ø .8750
.8745
DRAIN PLUG
(EA. END)
Ø6.43
5.74
3.60
45°
45°
3.34
LEAD HOLE
1.09 DIA.
4.62
4 HOLES
.38-16 TAP
Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 09:07:51 01/08/2024 TDR: 000001223001
MODEL NO. 35LYE6391 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
VERT 143-5TC TEFC 35M W/GLF BRGS, 'A64 NP, IP54
35LYE6391

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

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|---|---|---|---|
| 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 |