ABB BALDOR RELIANCE

# Customer information packet

## VLECP83663T-4

42M 2P TEFC VER 184LP CHEM PROC, SP#32-8
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184LP |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV<br>NEMA PREMIUM<br>UR<br>CSA |
| **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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 5.700 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 88.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Enclosure Modification** | 841 |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3 |

## Part Detail

| | |
|---|---|
| **Revision** | L |
| **Type** | AC |
| **Mech. spec.** | 06J487 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGX822 |
| **Layout** | 06LYJ487 |
| **Eff. date** | 12-17-2025 |
| **CD Diagram** | CD0006 |
| **Poles** | 02 |
| **Leads** | 3#16 |
| **Proprietary** | False |
| **Created date** | 03-27-2019 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | IP56 |
| **KVA Code** | J |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 5400 rpm |
| **Motor Lead Quantity/Wire Size** | 3 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0642M |
| **Mounting Arrangement** | W6 |
| **Number of Poles** | 2 |
| **Overall Length** | 22.68 IN |
| **Power Factor** | 94 |
| **Product Family** | Chem Process S/P 32-8 IEEE 841 |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | P-Base |
| **Pulley Shaft Indicator** | P-Base Groove & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3440 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP4328 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VLECP83663T-4 | | | | | | | |
| **SPEC.** | 06J487X822G1 | | | | | | | |
| **HP** | 5 TE | | | **IP** | 56 | | | |
| **VOLTS** | 460 | | | | | | | |
| **AMPS** | 5.7 | | | | | | | |
| **R.P.M.** | 3440 | | | | | | | |
| **FRAME** | 184LP | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.15 | **CODE** | J | **DES.** | B | **CLASS** | F | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **SN** | | | | | | | | |
| **DE** | 6307 | **ODE** | 7305 | | | | | |
| **NEMA NOM. EFF.** | 88.5 | **P.F.** | 94 | | | | | |
| **GUAR. MIN. EFF.** | 86.5 | **CC** | 010A | | | | | |
| **T. CODE** | T3 | **TEMP=** | 160 | | | | | |

| NP3186 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **SPEC.** | 06J487X822G1 | | | | | | |
| **ABMA DE BRG** | 35BC03X30X | | | | | | |
| **ABMA ODE BRG** | | | | | | | |
| **GREASE** | POLYREX EM | | | | | | |
| **MOTOR WEIGHT** | 123 | **ROTOR BARS** | 28 | **STATOR BARS** | 36 | | |
| **MAX. R.P.M.** | 5400 | **MAX. KVAR** | 0.15 | | | | |
| | | | | | | | |
| **INV.TYPE** | PWM | | | | | | |
| **T=** | 160 | | | | | | |
| **CHP** | 60 | **TO** | 90 | | | | |
| **CT** | 6 | **TO** | 60 | | | | |
| **VT** | 3 | **TO** | 60 | | | | |
| **HTR-VOLTS** | N/A | **HTR-AMPS** | N/A | | | | |
| **HTR-WATTS** | N/A | **MAX. SPACE HEATER TEMP.** | | | N/A | | |

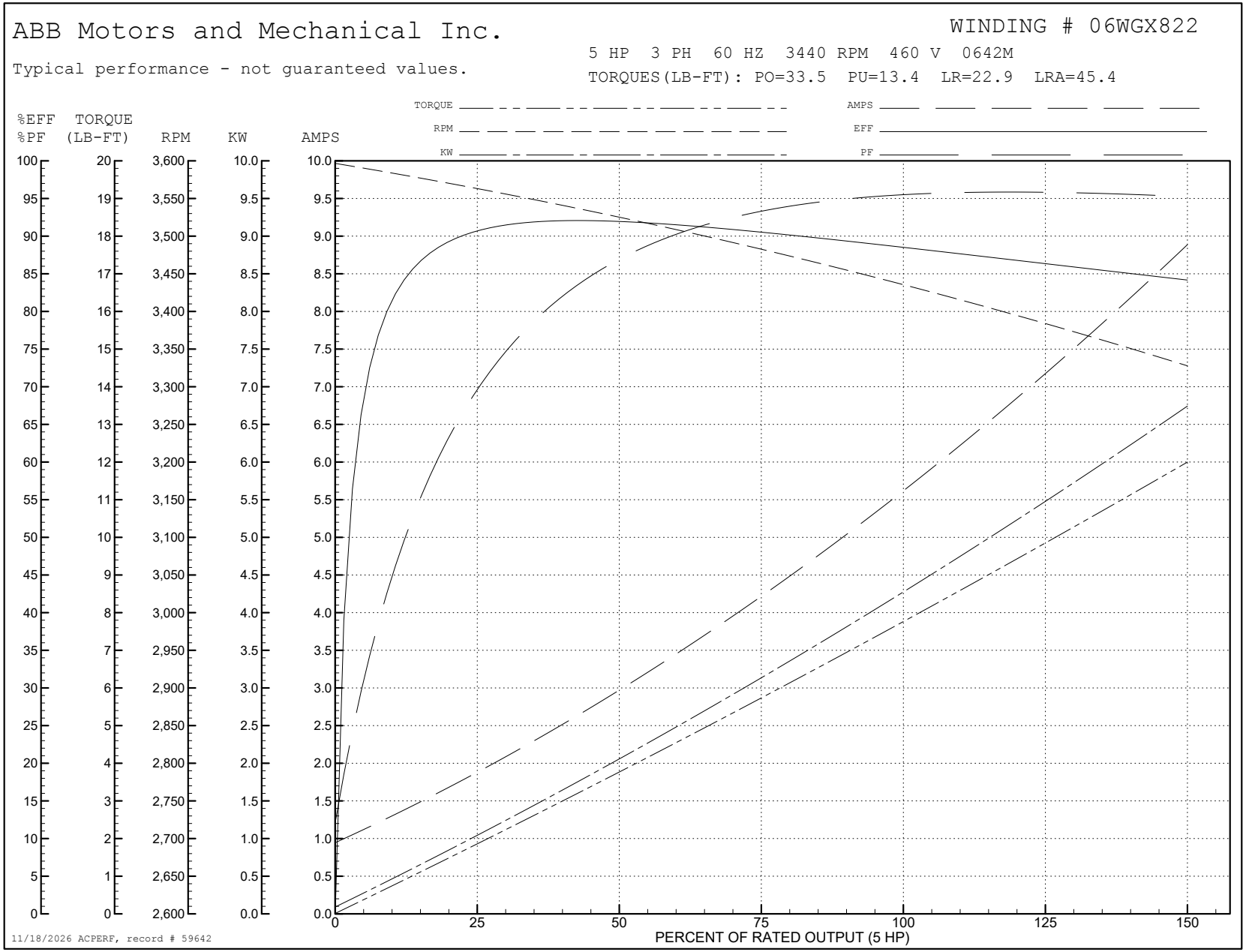
**AC Induction Motor Performance Data**
Record # 59642
Typical performance - not guaranteed values

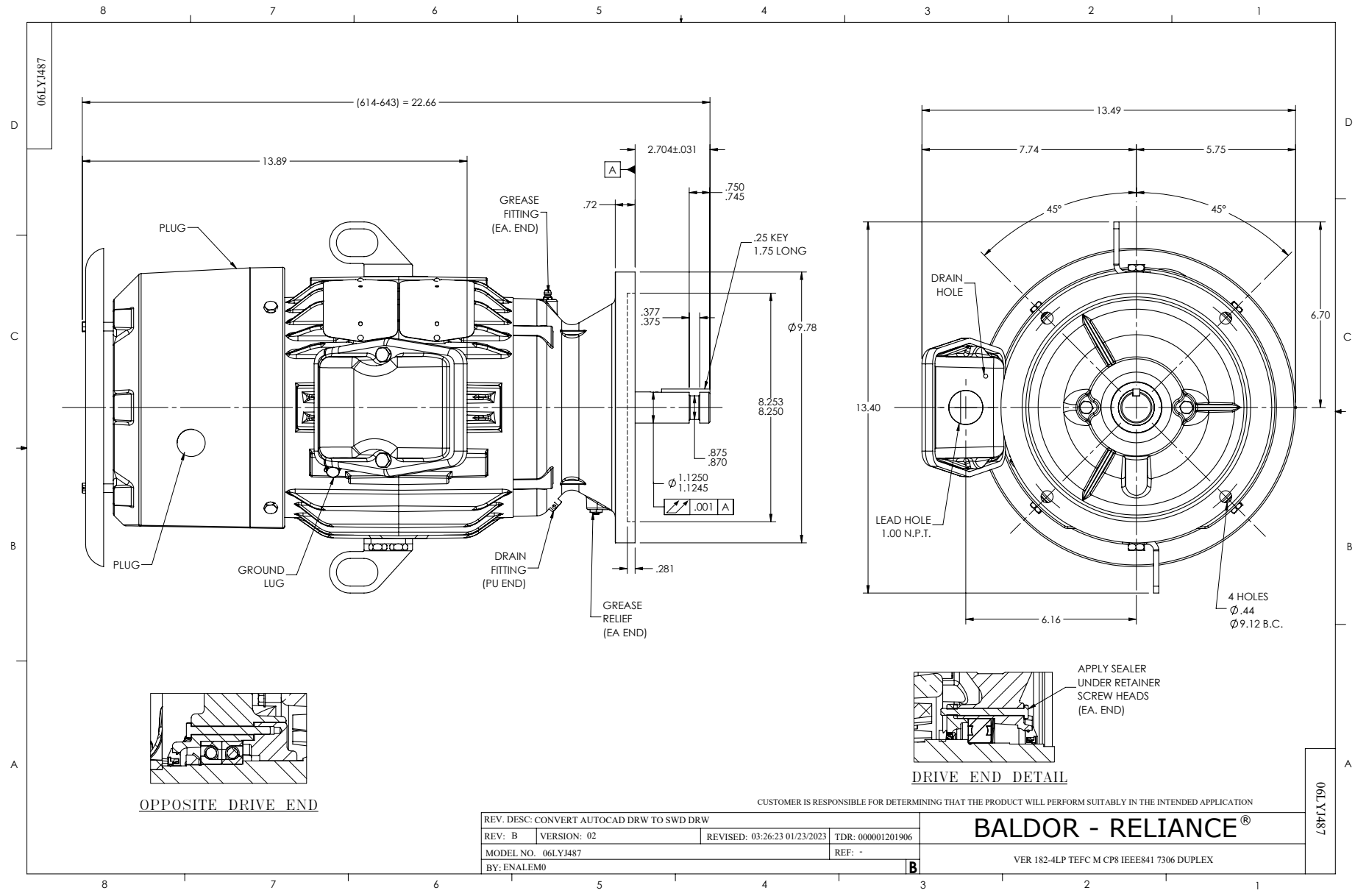
| **Winding:** 06WGX822-R001 | **Type:** 0642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 7.76 LB-FT |
| **Volts** | | | 460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.7 | **Breakdown Torque** | 33.5 LB-FT |
| **R.P.M.** | | | 3440 | **Pull-up Torque** | 13.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 22.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 45.4 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.07 A |
| **NEMA Nom. Eff.** | 88.5 | **Power Factor** | 94 | **Line-line Res. @ 25ºC** | 2.61 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 51°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 65°C |
| | | | | **Locked-rotor Power Factor** | 41.5 |
| | | | | **Rotor inertia** | 0.188 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 5 HP**

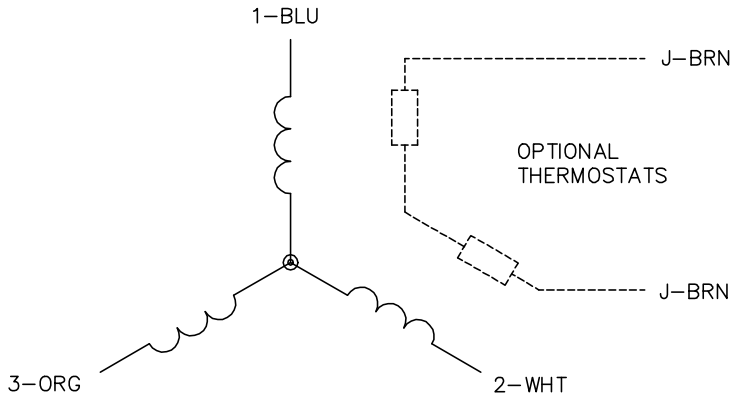
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 78 | 90 | 93 | 94 | 93 | 97 | 93 |
| **Efficiency** | 90 | 92 | 90 | 89 | 86 | 84 | 87.4 |
| **Speed** | 3559 | 3523 | 3481 | 3439 | 3384 | 3327 | 3406 |
| **Line amperes** | 1.8 | 2.92 | 4.25 | 5.68 | 7.33 | 8.75 | 6.67 |

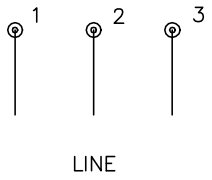

ABB Motors and Mechanical Inc.
WINDING # 06WGX822
5 HP 3 PH 60 HZ 3440 RPM 460 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.5 PU=13.4 LR=22.9 LRA=45.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/18/2026 ACPERF, record # 59642


06LYJ487
(614-643) = 22.66
13.89
2.704±.031
A
.750
.745
.72
GREASE FITTING (EA. END)
PLUG
.25 KEY
1.75 LONG
.377
.375
Ø9.78
8.253
8.250
.875
.870
Ø 1.1250
1.1245
.001 A
PLUG
GROUND LUG
DRAIN FITTING (PU END)
.281
GREASE RELIEF (EA END)
13.49
7.74
5.75
45°
45°
DRAIN HOLE
6.70
13.40
LEAD HOLE 1.00 N.P.T.
4 HOLES Ø.44 Ø9.12 B.C.
6.16
APPLY SEALER UNDER RETAINER SCREW HEADS (EA. END)
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 03:26:23 01/23/2023
TDR: 000001201906
MODEL NO. 06LYJ487
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 182-4LP TEFC M CP8 IEEE841 7306 DUPLEX
06LYJ487

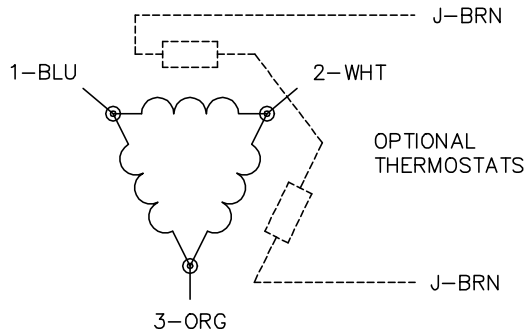
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1