ABB BALDOR RELIANCE

# Customer information packet

JMXM18522T

5//3HP, 3470//2870RPM, 3PH, 60//50HZ, 184JM
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 184JM |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| | 3.000 HP @ 50 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 190.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 380.0 V @ 50 HZ |
| **Agency Approvals** | UL |
| | CSA EEV |
| **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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 11.200 A @ 230.0 V |
| | 4.200 A @ 380.0 V |
| | 5.600 A @ 460.0 V |
| | 8.400 A @ 190.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |

## Part Detail

| | |
|---|---|
| **Revision** | A |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGT860 |
| **Layout** | 36LYE309 |
| **Eff. date** | 04-09-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 03-24-2021 |

| | |
|---|---|
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.2 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | NONE |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 5400 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3634M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 20.36 IN |
| **Power Factor** | 94 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3470 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |

| | |
|---|---|
| **Winding Thermal 2** | None |

**Nameplate**

| NP0887XPSLEV | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | **CC** | 010A | | | | |
| **S/N** | | | | **TEMP CODE** | T3C | | | | |
| **SPEC.** | 36-0000-0493 | | | **INV.TYPE** | PWM | | | | |
| **CAT.NO.** | JMXM18522T | | | **C HP FR** | 60 | **C HP TO** | 90 | | |
| **HP** | 5//3 | | | **CT HZ FROM** | 6 | | | **CT HZ TO** | 60 |
| **VOLTS** | 230/460//190/380 | | | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 |
| **AMPS** | 11.2/5.6//8.4/4.2 | | | **MAG CUR** | 3.2/1.6 | | | | |
| **RPM** | 3470//2870 | | | **MX RPM** | 5400 | | | | |
| **HZ** | 60//50 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 89.5 | | |
| **SER.F.** | 1.00 | **DES** | A | **SL HZ** | 2.2 | **WK2** | 0.15 | | |
| **FRAME** | 184JM | **RATING** | 40C AMB-CONT | | | | | | |
| | NEMA MG-1 PART 5, IP54 | | | | | | | | |
| | 1.15 SF ON SINE WAVE | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 73675
Typical performance - not guaranteed values

| **Winding:** 36WGT860-R067 | **Type:** 3634M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 5//3 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 11.2/5.6//8.4/4.2 |
| **R.P.M.** | | | 3470//2870 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | A | **KVA Code** | L |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 94 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 7.66 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 41.6 LB-FT |
| **Pull-up Torque** | 26.2 LB-FT |
| **Locked-rotor Torque** | 30.5 LB-FT |
| **Starting Current** | 59.3 A |
| **No-load Current** | 1.55 A |
| **Line-line Res. @ 25ºC** | 2.2 Ω |
| **Temp. Rise @ Rated Load** | 59°C |
| **Locked-rotor Power Factor** | 42.9 |
| **Rotor inertia** | 0.152 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 65 | 83 | 90 | 94 | 95 | 95 |
| **Efficiency** | 87.4 | 90.6 | 90.8 | 90.5 | 88.9 | 87.1 |
| **Speed** | 3567 | 3536 | 3503 | 3469 | 3431 | 3389 |
| **Line amperes** | 2.1 | 3.14 | 4.37 | 5.56 | 6.98 | 8.46 |

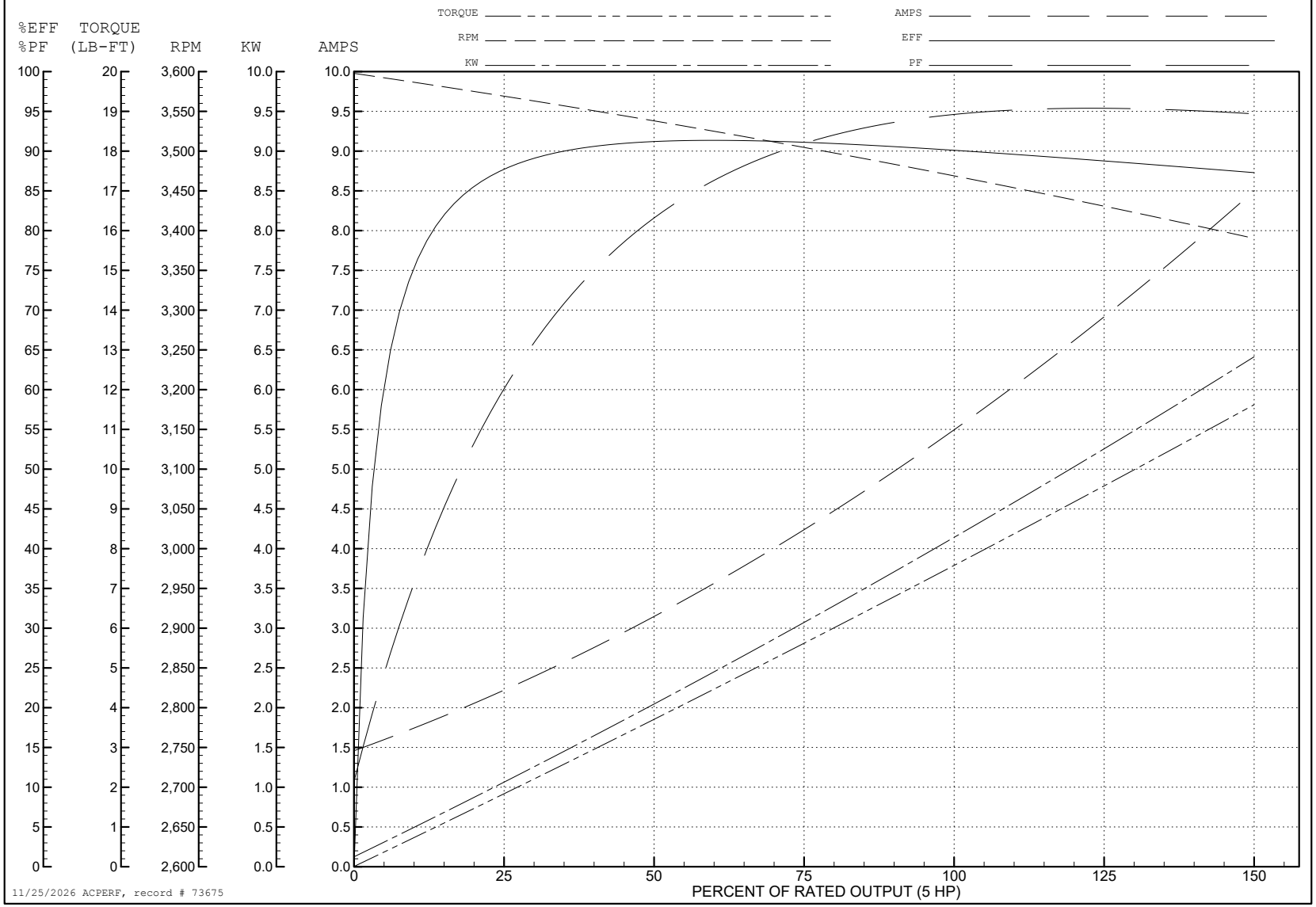
ABB Motors and Mechanical Inc.

WINDING # 36WGT860

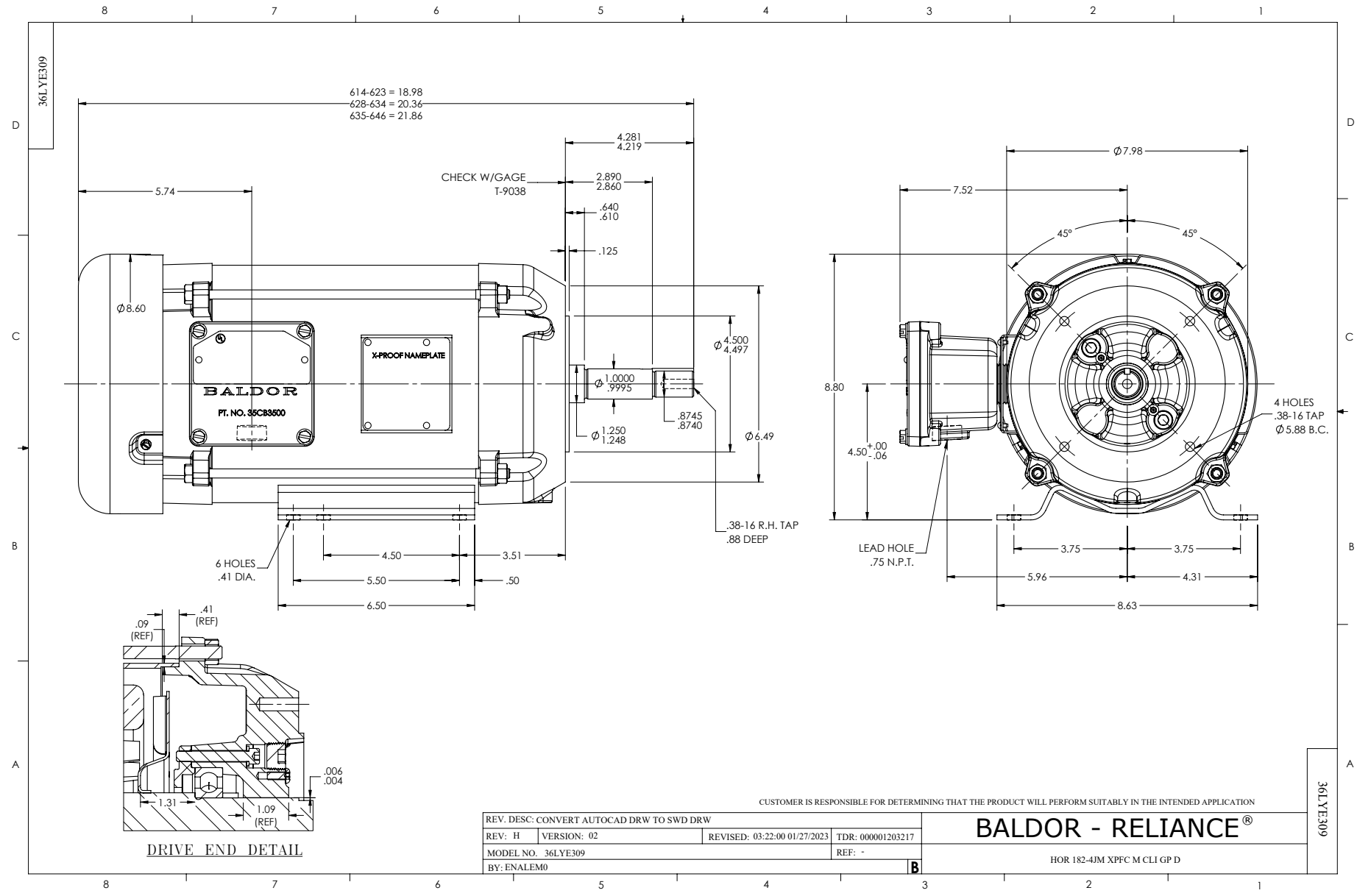
5 HP 3 PH 60 HZ 3469 RPM 460 V 3634M

Typical performance - not guaranteed values.

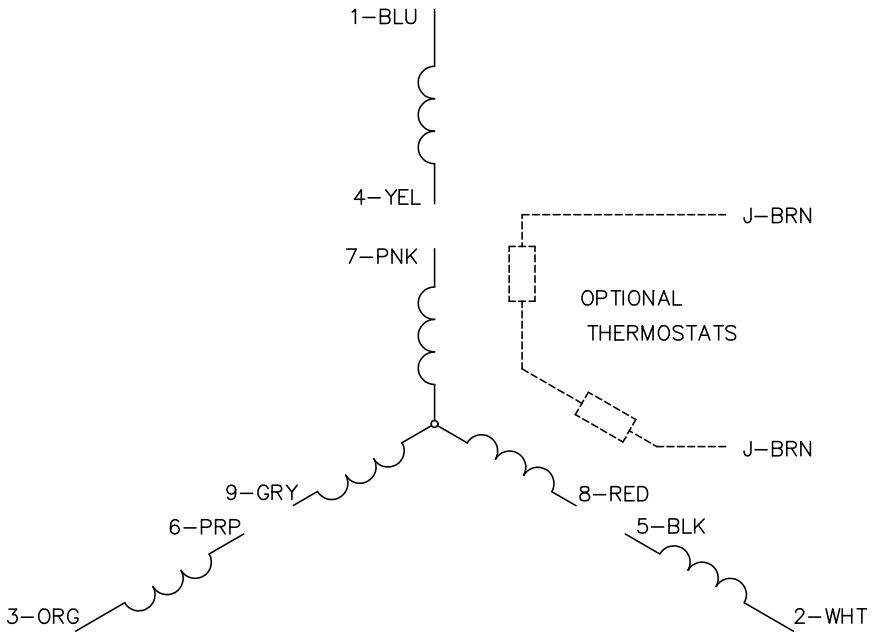
TORQUES(LB-FT): PO=41.6 PU=26.2 LR=30.5 LRA=59.3

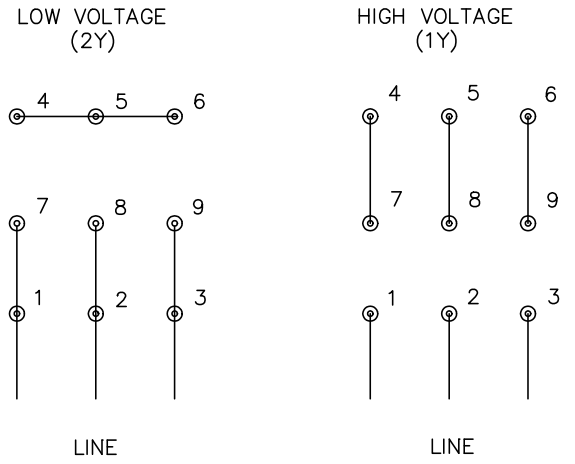



11/25/2026 ACPERF, record # 73675


36LYE309
614-623 = 18.98
628-634 = 20.36
635-646 = 21.86
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
.640
.610
.125
5.74
Ø8.60
X-PROOF NAMEPLATE
BALDOR
FT. NO. 35CB3500
Ø 1.0000
.9995
Ø 4.500
4.497
.8745
.8740
Ø 1.250
1.248
Ø6.49
.38-16 R.H. TAP
.88 DEEP
6 HOLES
.41 DIA.
4.50
3.51
5.50
.50
6.50
Ø7.98
7.52
45°
45°
8.80
4.50 +.00 -.06
4 HOLES
.38-16 TAP
Ø 5.88 B.C.
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.96
4.31
8.63
.09
(REF)
.41
(REF)
.006
.004
1.31
1.09
(REF)
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: H
VERSION: 02
REVISED: 03:22:00 01/27/2023
TDR: 000001203217
MODEL NO. 36LYE309
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 182-4JM XPFC M CLI GP D
36LYE309

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 |