# Customer information packet

FDL3504M

.5HP, 1725RPM, 1PH, 60HZ, 56, 3421L, TEFC, F1, N
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **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** | 3.700 A @ 230.0 V |
| | 4.300 A @ 208.0 V |
| | 7.400 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 68.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | 34M366 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGW722 |
| **Layout** | 34LYM366 |
| **Eff. date** | 07-25-2024 |
| **CD Diagram** | CD0008 |
| **Poles** | 04 |
| **Leads** | 6#18,1#16 #4TH |
| **Proprietary** | False |
| **Created date** | 11-22-2013 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 3.7 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3421L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.97 IN |
| **Power Factor** | 66 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1725 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** | Manual Thermal Overload |

| **Winding Thermal 1 Location** | KO |
|---|---|

**Nameplate**

| NP1280L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | FDL3504M | | | | | | | | | | |
| **SPEC.** | 34M366W722 | | | | | | | | | | |
| **HP** | .5 | | | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | | | |
| **AMP** | 7.4/3.7 | | | | | | | | | | |
| **RPM** | 1725 | | | | | | | | | | |
| **FRAME** | 56 | **HZ** | 60 | | **PH** | 1 | | | | | |
| **SER.F.** | 1.25 | **CODE** | J | **DES** | N | | **CL** | B | | | |
| **NEMA-NOM-EFF** | 68 | **PF** | 66 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| | SFA 8.2/4.1 | | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 34-3300FD | C FACE KIT FARM DUTY 56C, ENCL 6203 BRG | A8 |

**AC Induction Motor Performance Data**
Record # 7082
Typical performance - not guaranteed values

| **Winding:** 34WGW722-R001 | **Type:** 3421L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .5 | **Full Load Torque** | 1.5 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.4/3.7 | **Breakdown Torque** | 4.13 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 3.6 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 4.65 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | J | **Starting Current** | 16.5 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 2.8 A |
| **NEMA Nom. Eff.** | 68 | **Power Factor** | 66 | **Line-line Res. @ 25ºC** | 4.44 Ω A Ph<br>3.19 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 63°C |
| **S.F. Amps** | | | 8.2/4.1 | **Temp. Rise @ S.F. Load** | 77°C |

**Load Characteristics 230 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 46 | 59 | 66 | 72 | 80 | 72 |
| **Efficiency** | 42 | 58 | 65 | 68 | 69 | 68 | 69 |
| **Speed** | 1783 | 1765 | 1750 | 1730 | 1710 | 1680 | 1710 |
| **Line amperes** | 2.8 | 3 | 3.3 | 3.7 | 4.1 | 4.8 | 4.1 |

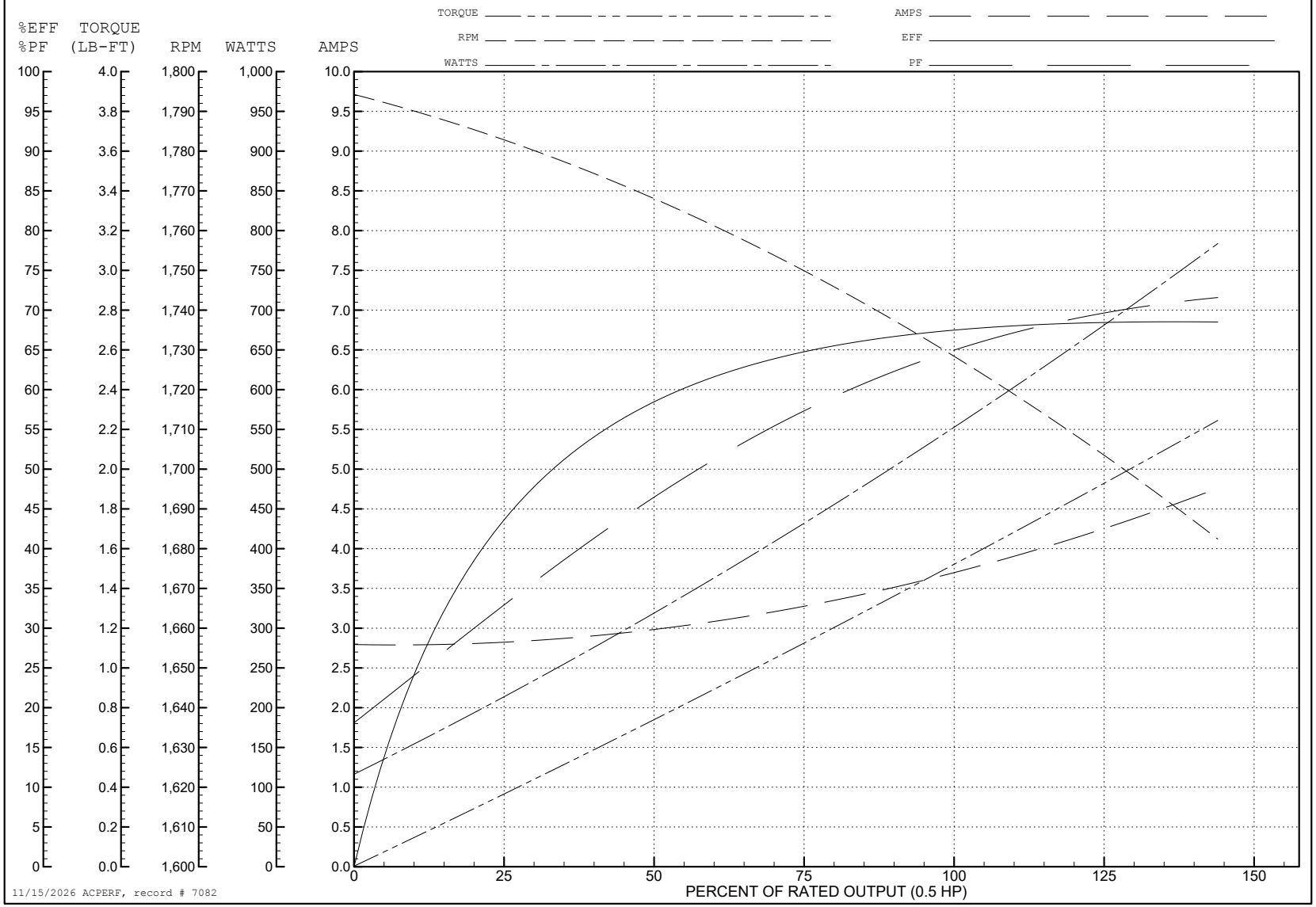
ABB Motors and Mechanical Inc.

WINDING # 34WGW722

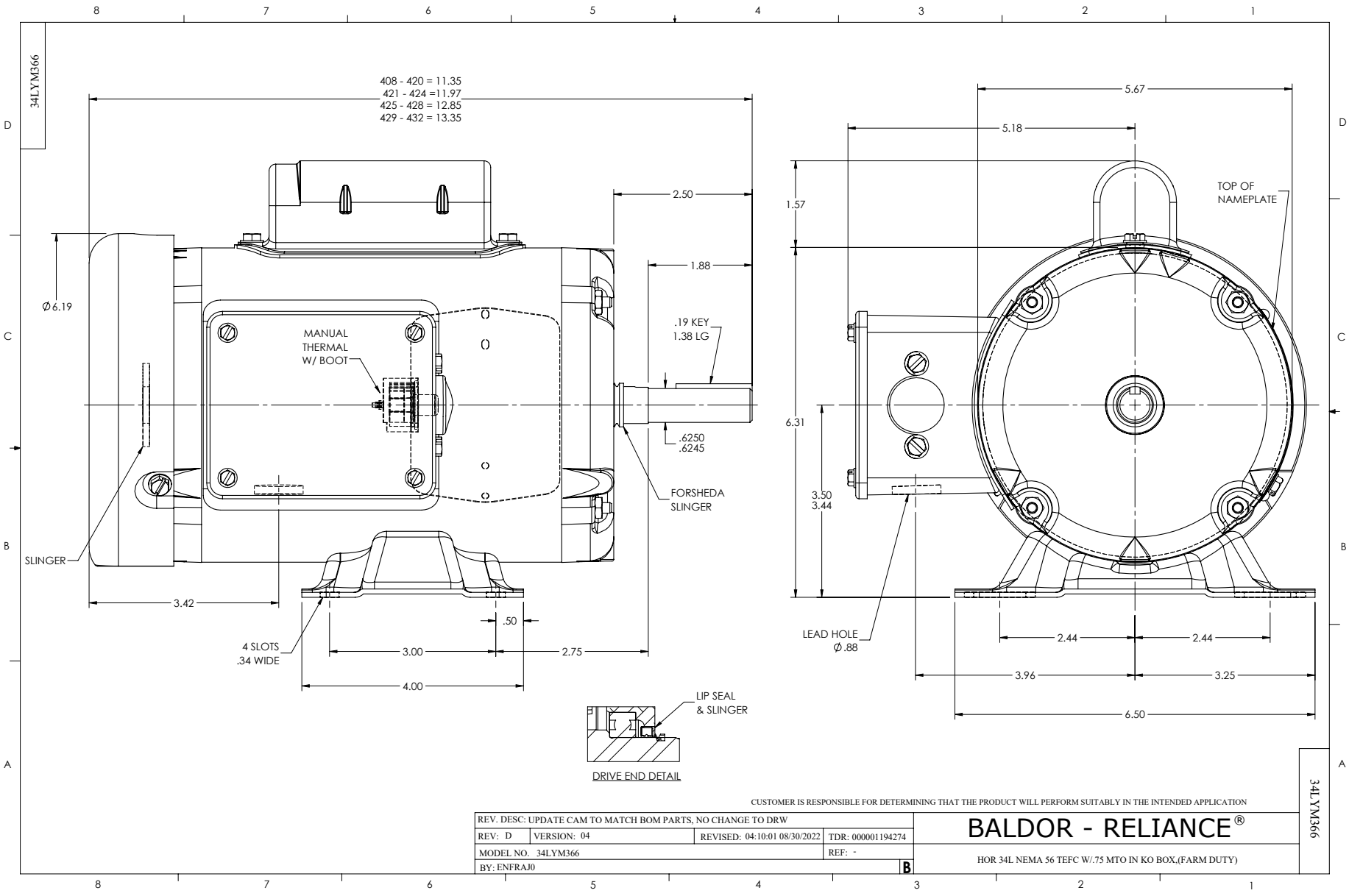
0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3421L

Typical performance - not guaranteed values.

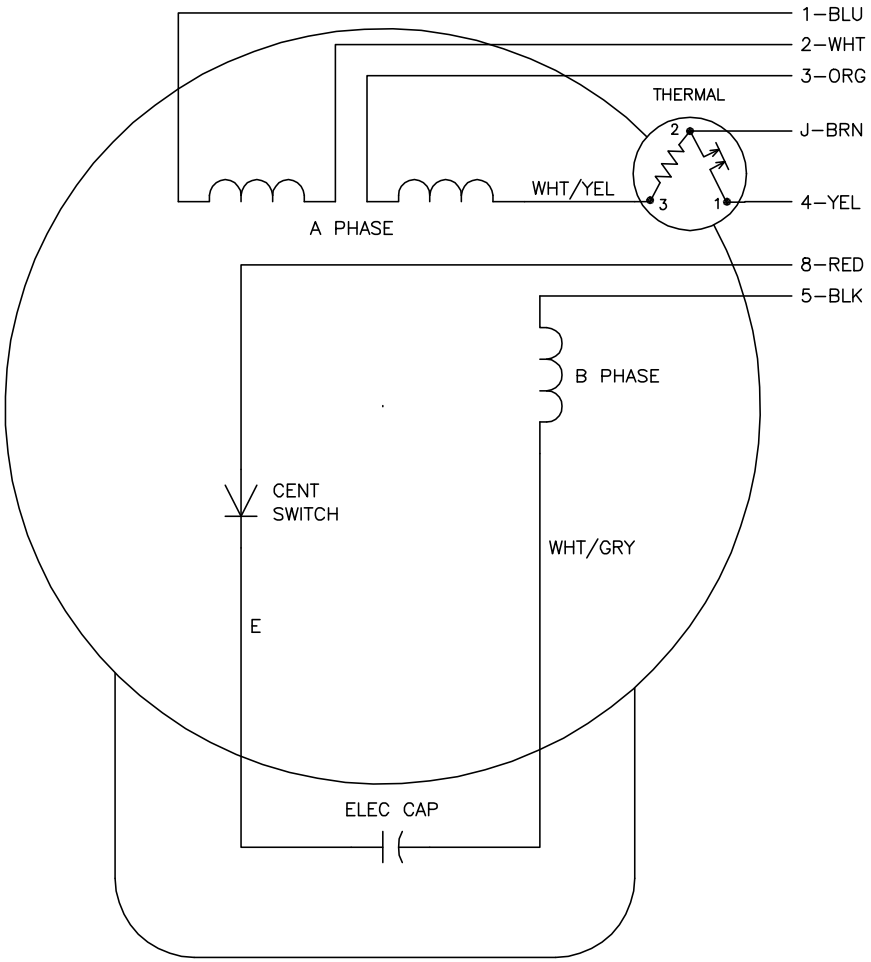
TORQUES(LB-FT): PO=4.13 PU=3.6 LR=4.65 LRA=16.5




11/15/2026 ACPERF, record # 7082


34LYM366
408 - 420 = 11.35
421 - 424 =11.97
425 - 428 = 12.85
429 - 432 = 13.35
2.50
1.88
Ø 6.19
MANUAL
THERMAL
W/ BOOT
.19 KEY
1.38 LG
.6250
.6245
FORSHEDA
SLINGER
SLINGER
3.42
.50
4 SLOTS
.34 WIDE
3.00
2.75
4.00
LIP SEAL
& SLINGER
DRIVE END DETAIL
5.67
5.18
1.57
TOP OF
NAMEPLATE
6.31
3.50
3.44
LEAD HOLE
Ø .88
2.44
2.44
3.96
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE CAM TO MATCH BOM PARTS, NO CHANGE TO DRW
REV: D
VERSION: 04
REVISED: 04:10:01 08/30/2022
TDR: 0000001194274
MODEL NO. 34LYM366
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 34L NEMA 56 TEFC W/.75 MTO IN KO BOX,(FARM DUTY)
34LYM366

CD0008




| | LINE A | LINE B | JOIN | JOIN |
|---|---|---|---|---|
| HIGH STD | 1 | 4 | 2,3,8 | J,5 |
| HIGH OPP | 1 | 4 | 2,3,5 | J,8 |
| LOW STD | 1,3,8 | 4 | – | 2,J,5 |
| LOW OPP | 1,3,5 | 4 | – | 2,J,8 |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0008

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02 | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000360649 | |
| CD0008 | FILE: \AAA\00007\408 | REVISED: 10:56:54 04/18/2005 | TYPE L, DV, REV, THERMAL, 7 LEADS |
| | MTL: – | BY: ENJOEP0 | |