

**BALDOR • RELIANCE**

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# Customer information packet

## L3612TM

5HP, 1725RPM, 1PH, 60HZ, 184T, 3646LC, TEFC, F1

Class - None

Division - Not Applicable

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4/18/2025 2:26:06 PM

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 184T                      |
| Frame Material                 | Steel                     |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Cap Start, Cap Run        |
| Output @ Frequency             | 5.000 HP @ 60 HZ          |
| Phase                          | 1                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 230.0 V @ 60 HZ           |
| Agency Approvals               | UR<br>CSA                 |
| Ambient Temperature            | 40 °C                     |
| Auxillary Box                  | No Auxillary Box          |
| Auxillary Box Lead Termination | None                      |
| Base Indicator                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | 23.000 A @ 230.0 V        |
| Design Code                    | L                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 80.0 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Standard                  |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 23.0 a                    |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |

## Part detail

|              |                    |
|--------------|--------------------|
| Revision     | F                  |
| Type         | AC                 |
| Mech. spec.  | 36G787             |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | 36WGW279           |
| Layout       | 36LYG787           |
| Eff. date    | 05-09-2024         |
| CD Diagram   | CD0152             |
| Poles        | 04                 |
| Leads        | 2#10 A PH,3#16 B&J |
| Proprietary  | False              |
| Created date | 03-02-2010         |

|                                      |                         |
|--------------------------------------|-------------------------|
| <b>KVA Code</b>                      | J                       |
| <b>Lifting Lugs</b>                  | No Lifting Lugs         |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing       |
| <b>Motor Lead Exit</b>               | Cap Box                 |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 10 AWG, A PH        |
| <b>Motor Lead Termination</b>        | Flying Leads            |
| <b>Motor Standards</b>               | NEMA                    |
| <b>Motor Type</b>                    | 3646LC                  |
| <b>Mounting Arrangement</b>          | F1                      |
| <b>Number of Poles</b>               | 4                       |
| <b>Overall Length</b>                | 18.04 IN                |
| <b>Power Factor</b>                  | 88                      |
| <b>Product Family</b>                | General Purpose         |
| <b>Pulley End Bearing Type</b>       | Ball                    |
| <b>Pulley Face Code</b>              | Standard                |
| <b>Pulley Shaft Indicator</b>        | Standard                |
| <b>Rodent Screen</b>                 | None                    |
| <b>Service Factor</b>                | 1.00                    |
| <b>Shaft Diameter</b>                | 1.125 IN                |
| <b>Shaft Extension Location</b>      | Pulley End              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding      |
| <b>Shaft Rotation</b>                | Reversible              |
| <b>Shaft Slinger Indicator</b>       | No Slinger              |
| <b>Speed</b>                         | 1725 rpm                |
| <b>Speed Code</b>                    | Single Speed            |
| <b>Starting Method</b>               | Direct on line          |
| <b>Thermal Device - Bearing</b>      | None                    |
| <b>Thermal Device - Winding</b>      | Do Not Use              |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor     |
| <b>Winding Thermal 1</b>             | Manual Thermal Overload |
| <b>Winding Thermal 1 Location</b>    | KO                      |
| <b>Winding Thermal 2</b>             | None                    |

**Nameplate**

| <b>NP1257L</b>      |              |             |      |            |    |           |           |   |  |
|---------------------|--------------|-------------|------|------------|----|-----------|-----------|---|--|
| <b>CAT.NO.</b>      | L3612TM      |             |      |            |    |           |           |   |  |
| <b>SPEC.</b>        | 36G787W279G7 |             |      |            |    |           |           |   |  |
| <b>HP</b>           | 5            |             |      |            |    |           |           |   |  |
| <b>VOLTS</b>        | 230          |             |      |            |    |           |           |   |  |
| <b>AMP</b>          | 23           |             |      |            |    |           |           |   |  |
| <b>RPM</b>          | 1725         |             |      |            |    |           |           |   |  |
| <b>FRAME</b>        | 184T         |             |      | <b>HZ</b>  | 60 |           | <b>PH</b> | 1 |  |
| <b>SER.F.</b>       | 1.00         | <b>CODE</b> | J    | <b>DES</b> | L  | <b>CL</b> | F         |   |  |
| <b>NEMA-NOM-EFF</b> | 80           | <b>PF</b>   | 88   |            |    |           |           |   |  |
| <b>RATING</b>       | 40C AMB-CONT |             |      |            |    |           |           |   |  |
| <b>CC</b>           |              |             |      |            |    |           |           |   |  |
| <b>DE</b>           | 6206         | <b>ODE</b>  | 6205 |            |    |           |           |   |  |
| <b>ENCL</b>         | TEFC         | <b>SN</b>   |      |            |    |           |           |   |  |

**Accessories**

| <b>Part number</b> | <b>Description</b>                      | <b>Multiplier</b> |
|--------------------|---|-------------------|
| 36-3301            | C FACE KIT                              | A8                |
| 36EP1304A62SP      | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8                |

**AC Induction Motor Performance Data**

Record # 10712

Typical performance - not guaranteed values

| <b>Winding: 36WGW279-R001</b> |              | <b>Type: 3646LC</b>        |   | <b>Enclosure: TEFC</b>       |                             |
|-------------------------------|--------------|----------------------------|---|------------------------------|-----------------------------|
| <b>Nameplate Data</b>         |              |                            | <b>230 V, 60 Hz:<br/>Single Voltage Motor</b> |                              |                             |
| <b>Rated Output (HP)</b>      | 5            | <b>Full Load Torque</b>    | 15 LB-FT                                      |                              |                             |
| <b>Volts</b>                  | 230          | <b>Start Configuration</b> | direct on line                                |                              |                             |
| <b>Full Load Amps</b>         | 23           | <b>Breakdown Torque</b>    | 43 LB-FT                                      |                              |                             |
| <b>R.P.M.</b>                 | 1725         | <b>Pull-up Torque</b>      | 36 LB-FT                                      |                              |                             |
| <b>Hz</b>                     | 60           | <b>Phase</b>               | 1   | <b>Locked-rotor Torque</b>   | 46 LB-FT                    |
| <b>NEMA Design Code</b>       | L            | <b>KVA Code</b>            | J   | <b>Starting Current</b>      | 163 A                       |
| <b>Service Factor (S.F.)</b>  | 1            | <b>No-load Current</b>     | 10 A  |                              |                             |
| <b>NEMA Nom. Eff.</b>         | 80           | <b>Power Factor</b>        | 88  | <b>Line-line Res. @ 25°C</b> | 0.353 Ω A Ph<br>2.23 Ω B Ph |
| <b>Rating - Duty</b>          | 40C AMB-CONT |                            | <b>Temp. Rise @ Rated Load</b>                | 97°C                         |                             |

**Load Characteristics 230 V, 60 Hz, 5 HP**

| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|
| <b>Power Factor</b>    | 54        | 71        | 85        | 89         | 89         | 91         |
| <b>Efficiency</b>      | 65        | 76.1      | 81.5      | 80.8       | 79.3       | 75.5       |
| <b>Speed</b>           | 1786      | 1769      | 1750      | 1732       | 1713       | 1687       |
| <b>Line amperes</b>    | 12.7      | 14        | 18.5      | 22.6       | 27.3       | 33.5       |

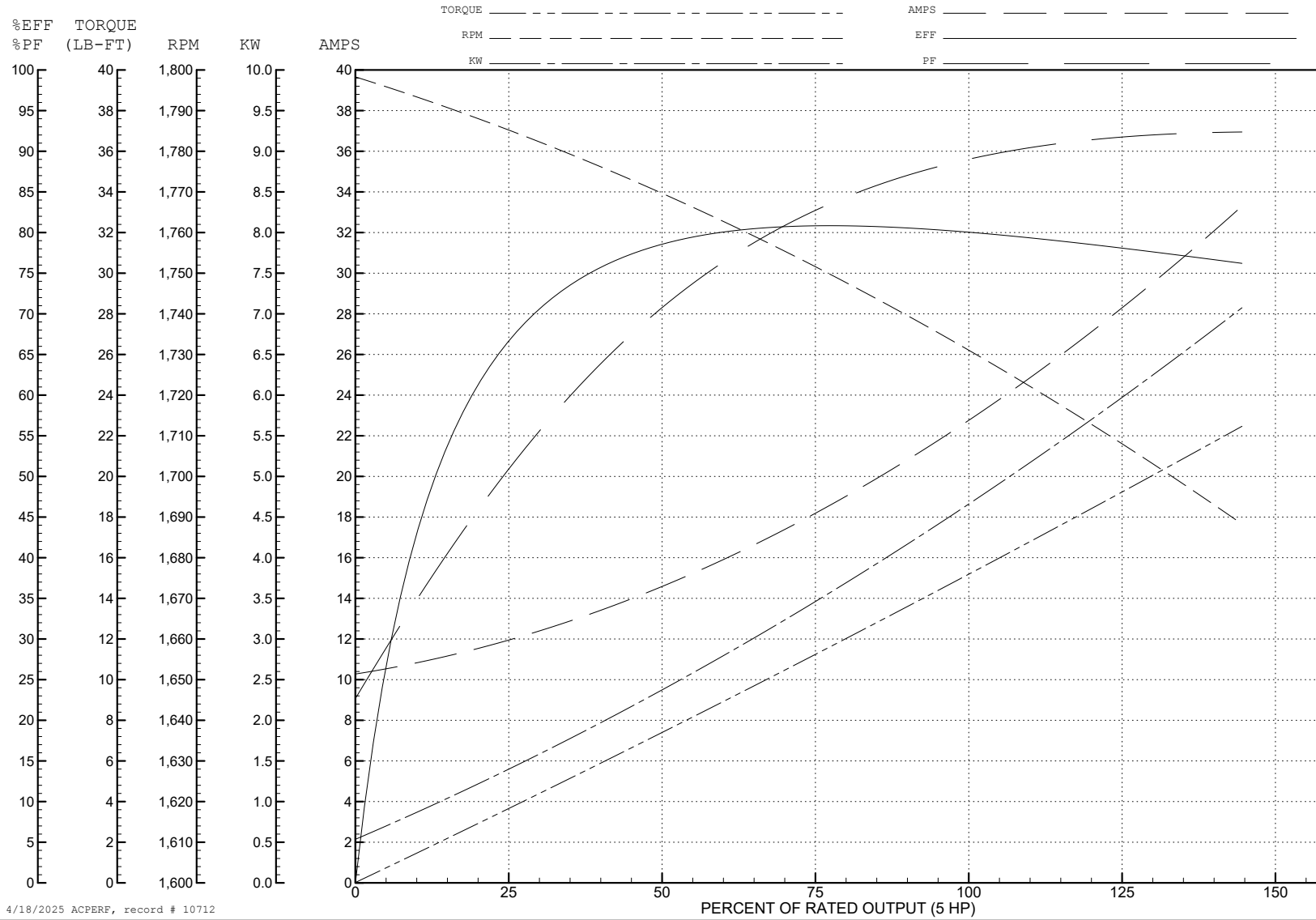
ABB Motors and Mechanical Inc.

WINDING # 36WG279

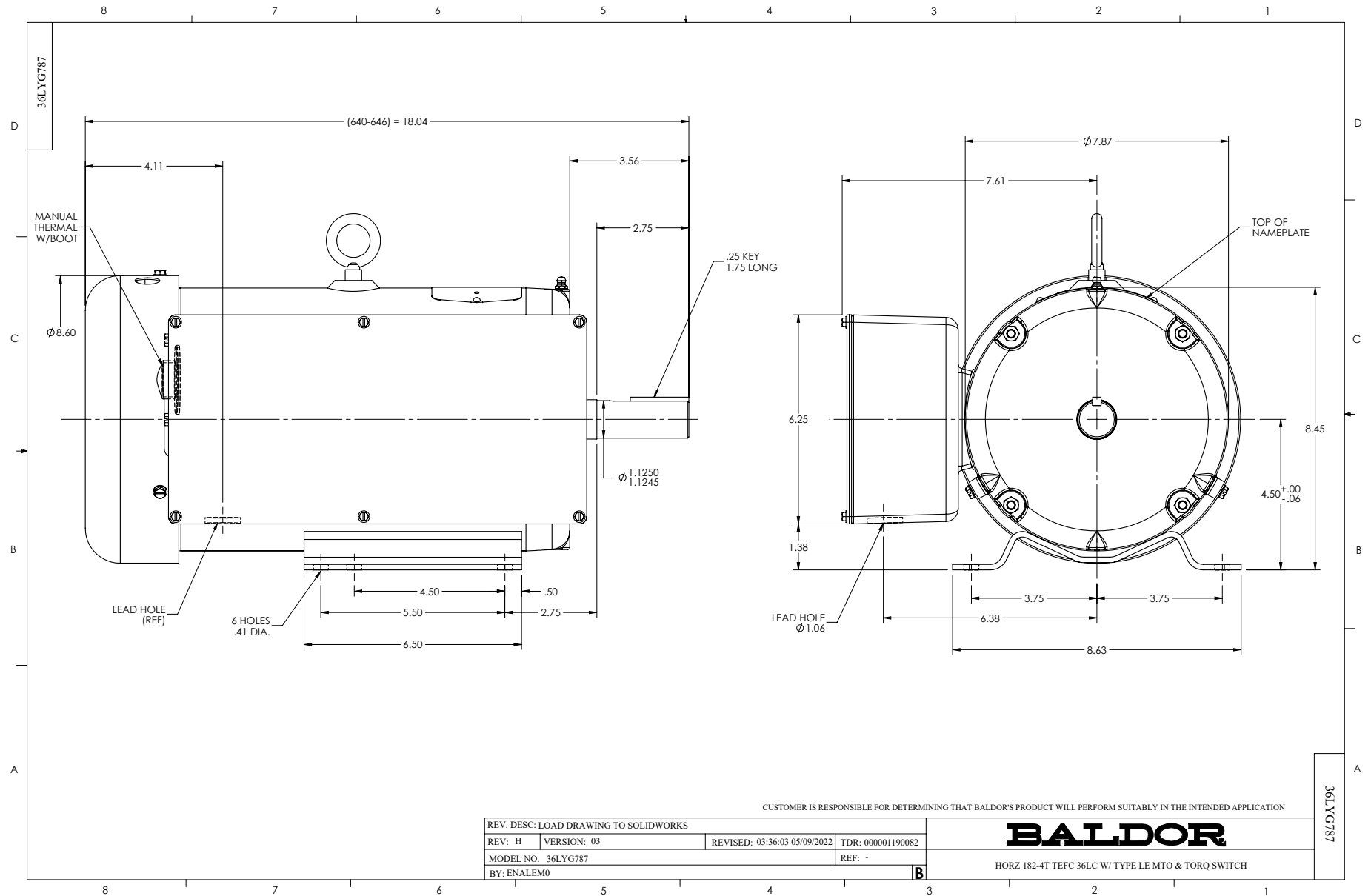
Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

TORQUES (LB-FT): PO=43 PU=36 LR=46 LRA=163

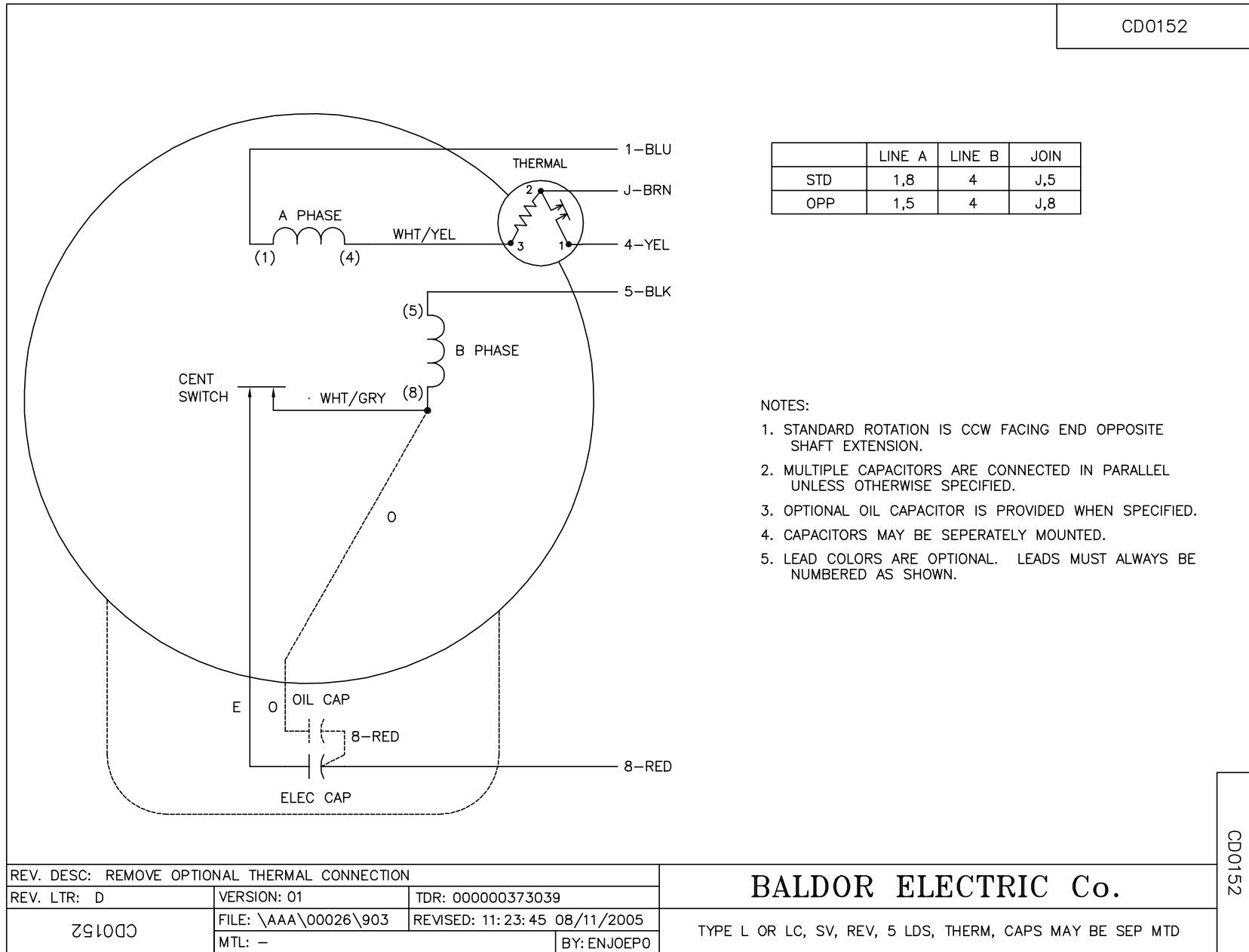


4/18/2025 ACPERF, record # 10712





CD0152



|     | LINE A | LINE B | JOIN |
|-----|--------|--------|------|
| STD | 1,8    | 4      | J,5  |
| OPP | 1,5    | 4      | J,8  |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
4. CAPACITORS MAY BE SEPERATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|   |                      |                                |
|---|----------------------|--------------------------------|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION |                      |                                |
| REV. LTR: D                                   | VERSION: 01          | TDR: 000000373039              |
| CD0152  | FILE: \AAA\00026\903 | REVISED: 11: 23: 45 08/11/2005 |
|   | MTL: -               | BY: ENJOEPO                    |

**BALDOR ELECTRIC Co.**

TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD

CD0152