Introduction
The tekmar Relay 004 - 120 V (ac) is for use in applications where device operation requires a voltage that differs from the control's built-in inputs or outputs. They can also be used in applications where the device operation requires a higher current than the on board relay is rated for.

- Relay 004 is energized with 120 V (ac)

Features
- Test button
- Red LED indicator
- Pluggable base

Benefits
- Mounts to TS35 DIN Rail
- Pre-wire and test base before plugging in relay
- Replace relay without disturbing wiring

Note
- For 24 V (ac) coil relay see D003
Installation

The Relay base can be mounted directly to a flat surface, or onto a standard TS35 DIN rail. Follow local codes for installation of the relay and wiring. For class 2 circuits, no enclosure is required. For all other circuits, the relay should be mounted in an approved enclosure.

Wiring connections are made at the base terminals and are checked with the relay unplugged.

Relay pulls straight out of base. Base can be pre-wired and wiring can be tested before plugging in relay. Relay can be replaced without disturbing the wiring.

Wiring

When 120 V (ac) is applied to the relay coil (terminals 2 and 7), the N.O. (Normally Open) contacts will close and at the same time the N.C. (Normally Closed) contacts will open. Also, the red LED indicator light on the top of the relay will turn on.

When voltage is removed from the relay coil (terminals 2 and 7) , the spring will automatically return the relay contacts to the normal (un-powered) position, and the LED indicator will turn off.
Testing

Push the test button on the front side of the relay to manually close the N.O. (Normally Open) contacts and open the N.C. (Normally Closed) contacts for testing purposes.

The red LED indicator turns on when the relay coil is energized. This LED is visible as indicated through the top of the relay and provides visual verification when the relay is “on”. When the relay coil is “off” the LED will also be off.

Application

120 V (ac) system pump contact from a tekmar control energizes Relay 004 to turn on a system pump that draws more amperage than the onboard control relay is rated for.
Specifications & Warranty

Relay 004 (120 V (ac) coil)

<table>
<thead>
<tr>
<th>Literature</th>
<th>D004, C004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaged weight</td>
<td>0.4 lb (180 g)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3&quot; H x 1-9/16&quot; W x 2-3/8&quot; D (75 x 40 x 60 mm)</td>
</tr>
<tr>
<td>Approvals</td>
<td>CSA C US</td>
</tr>
<tr>
<td>Power supply (coil)</td>
<td>120 V (ac) +10%, -20%, 50 Hz 2.7 VA, 60 Hz 2.3 VA</td>
</tr>
<tr>
<td>Relay contacts (max.)</td>
<td>10 A resistive @ 250 V (ac) N.O., N.C.</td>
</tr>
<tr>
<td>Relay contacts (min.)</td>
<td>10 A resistive @ 30 V (dc) N.O., N.C.</td>
</tr>
<tr>
<td>Relay contacts (max.)</td>
<td>7 A inductive @ 250 V (ac)</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>Indoor use only, -40 to 140°F (-40 to 60°C), RH &lt; 85% Non-condensing</td>
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</tbody>
</table>

Limited Warranty The liability of tekmar under this warranty is limited. The Purchaser, by taking receipt of any tekmar product (“Product”), acknowledges the terms of the Limited Warranty in effect at the time of such Product sale and acknowledges that it has read and understands same.

The tekmar Limited Warranty to the Purchaser on the Products sold hereunder is a manufacturer’s pass-through warranty which the Purchaser is authorized to pass through to its customers. Under the Limited Warranty, each tekmar Product is warranted against defects in workmanship and materials if the Product is installed and used in compliance with tekmar’s instructions, ordinary wear and tear excepted. The pass-through warranty period is for a period of twenty-four (24) months from the production date if the Product is not installed during that period, or twelve (12) months from the documented date of installation if installed within twenty-four (24) months from the production date.

The liability of tekmar under the Limited Warranty shall be limited to, at tekmar’s sole discretion: the cost of parts and labor provided by tekmar to repair defects in materials and / or workmanship of the defective product; or to the exchange of the defective product for a warranty replacement product; or to the granting of credit limited to the original cost of the defective product, and such repair, exchange or credit shall be the sole remedy available from tekmar, and, without limiting the foregoing in any way, tekmar is not responsible, in contract, tort or strict product liability, for any other losses, costs, expenses, inconveniences, or damages, whether direct, indirect, special, secondary, incidental or consequential, arising from ownership or use of the product, or from defects in workmanship or materials, including any liability for fundamental breach of contract.

The pass-through Limited Warranty applies only to those defective Products returned to tekmar during the warranty period. This Limited Warranty does not cover the cost of the parts or labor to remove or transport the defective Product, or to reinstall the repaired or replacement Product, all such costs and expenses being subject to Purchaser’s agreement and warranty with its customers.

Any representations or warranties about the Products made by Purchaser to its customers which are different from or in excess of the tekmar Limited Warranty are the Purchaser’s sole responsibility and obligation. Purchaser shall indemnify and hold tekmar harmless from and against any and all claims, liabilities and damages of any kind or nature which arise out of or are related to any such representations or warranties by Purchaser to its customers.

This Warranty is in lieu of all other warranties, express or implied, which the Governing Law allows parties to contractually exclude, including, without limitation, implied warranties of merchantability and fitness for a particular purpose, durability or description of the Product, its non-infringement of any relevant patents or trademarks, and its compliance with or non-violation of any applicable environmental, health or safety legislation; the term of any other warranty not hereby contractually excluded is limited such that it shall not extend beyond twenty-four (24) months from the production date, to the extent that such limitation is allowed by the Governing Law.

Product Warranty Return Procedure All Products that are believed to have defects in workmanship or materials must be returned, together with a written description of the defect, to the tekmar Representative assigned to the territory in which such Product is located. If tekmar receives an inquiry from someone other than a tekmar Representative, including an inquiry from Purchaser (if not a tekmar Representative) or Purchaser’s customers, regarding a potential warranty claim, tekmar’s sole obligation shall be to provide the address and other contact information regarding the appropriate Representative.