

Reyrolle  
Protection  
Devices

## **7PG17 – XR**

Intertripping, Interposing, Supervision and Special Purpose Relays.

**Answers for energy**

**SIEMENS**  
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# 7PG17–XR309

Intertripping, Interposing, Supervision and Special Purpose Relays.

## XR309 – Site Test Method

During service this relay is connected to a 3 wire voltage supply. If all or none of the elements are operating there is no output from the relay contacts. If one element drops off then there is an output from the relay contacts.

To test the pick up level of each element, voltage is applied to the terminals shown below in table 1 and increased until the relay operates. The pick up is not greater than 40v ac and the drop off is not less than 25v ac.

NOTE: There is no operation of the output contacts during this test the operation of the element can only be observed visually. If necessary the relay can be removed from its box and connections made to the rear connecting block.

Voltage between Terminals	Elements Operated
23-25	A
25-27	B
23-27	C

Table 1

To prove the relay contacts operate single phase voltage is applied to two of three elements via the connections shown in table 2. In the test the contacts 1 & 3 can be monitored.

Live	Neutral	Element Operated
25,27	23	A & C
23,27	25	A & B
23,25	27	B & C

Table 2

This relay is an instantaneous operating element; for time delayed operation an external time delayed relay is required.

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