

Reyrolle  
Protection  
Devices

## **7PG17 – XR**

Intertripping, Interposing, Supervision and Special Purpose Relays.

**Answers for energy**

# 7PG17-XR101/XR102

Intertripping, Interposing, Supervision and Special Purpose Relays.

## Application

Types XR101 and XR102 are intended for use as Intertrip Send and receive relays.

XR101 intertrip send complies with ESI 18-4 Class ES1.

XR102 intertrip receive complies with ESI 41-15 Part 5 (1988).

## Description

Type XR relays are developments for specific applications of the AR relay range. They are electro-mechanical relays with a consistent positive action, a long service life and complying with BS 142.

**XR101** - This relay is supplied with a loose 1500 ohm resistor for wiring in series with the coil. The resistor should be mounted vertically on a steel cubicle or switch-gear compartment side sheet.

**XR102** - This relay requires a 200 ohm resistor to be wired in series with the coil. As the resistor is a requirement of the overall intertripping scheme detailed by ESI 41-15 Part 5, it is **NOT SUPPLIED** with the relay.

## Technical Information

	XR101	XR102
Rating	125 Vd.c.	48 Vd.c.
Operating Time	10 ms	15 ms
Minimum operate current	25 mA	10 mA
Continuous Maximum Withstand at 40°C Ambient	143 V	60V
Maximum Burden (including external resistors)	13 W	10 W

**Operating Range:** 50% to 120% of rated voltage.

### Thermal Withstand:

Both relays will withstand 13times rated voltage for 10seconds.

### Contact Arrangement:

XR101 – 2 normally open self reset.

XR102 – 3 normally open and 1 normally closed self reset.

Contact Rating:

Make and carry continuously:-

1250VA a.c. or 1250W d.c. within the limits of 660V and 5A.

Make and carry for 3 seconds:-

7500VA a.c. or 7500W d.c. within the limits of 660V and 30A.

Break:-

1250VA a.c. or 100W (resistive) d.c. or 50W

(inductive), L/R = 0.04, d.c. within the limits of 250V and 5A.

Indication;

Both relays are fitted with hand reset flags.

Insulation;

2kV 50HZ rms for 1 minute:

Between contacts to earth and to the coil.

Between any case terminal and earth.

Between case terminals of independent circuits

1kV 50hz rms for 1 minute across normally open contacts.

Temperature:

In service: -10°C to 55°C.

Storage: -25°C to 70°C

Mechanical Durability:

Vibration, relays comply with BS 142, Section 2.1 Category S2. Shock, relays will withstand a 20G shock or impact on the panel without operating.

Cases:

Each relay is fitted in a modular relay size 2 case.

ORDERING INFORMATION

Model Reference

Published by and copyright © 2010:  
Siemens AG  
Energy Sector  
Freyeslebenstrasse 1  
91058 Erlangen, Germany

Siemens Protection Devices Limited  
P.O. Box 8  
North Farm Road  
Hebburn  
Tyne & Wear  
NE31 1TZ  
United Kingdom  
Phone: +44 (0)191 401 7901  
Fax: +44 (0)191 401 5575  
[www.siemens.com/energy](http://www.siemens.com/energy)

For more information, please contact our  
Customer Support Center.  
Phone: +49 180/524 70 00  
Fax: +49 180/524 24 71 (Charges depending on provider)  
E-mail: [support.energy@siemens.com](mailto:support.energy@siemens.com)

Power Distribution Division Order No. C53000-G7076-C58-1  
Printed in Fürth

Printed on elementary chlorine-free bleached paper.

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