

7PG23 5B3

Restricted Earth Fault

Document Release History

This document is issue 02/2010. The list of revisions up to and including this issue is:

Pre release

02/2010	Document formatted due to rebrand

Software Revision History

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1. GENERAL

Performance Data to IEC 255

2. CHARACTERISTIC ENERGIZING QUANTITY

AC Voltage V_s	15V to 270V
AC Current I_n	20mA fixed
Frequency	50Hz/60Hz

3. CHARACTERISTICS

3.1 Protection Settings

Voltage V_s	15V to 270V in 5V steps
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3.2 Operating Times

Operating Time	45mS max. at 3 x V_s
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4. ACCURACY

Operating Voltage V_s	$\pm 5\%$
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5. ACCURACY INFLUENCING FACTORS

5.1 Temperature

Ambient Range -5°C to $+40^{\circ}\text{C}$
Setting Variation $\pm 10\%$

5.2 Frequency

Range 47Hz to 61Hz
Setting Variation $\pm 5\%$

6. THERMAL WITHSTAND

Continuous and Limited Period Overload

$1.25 \times V_s$	Continuous
$2 \times V_s$	for 10 minutes

7. BURDEN

AC Burden	$V_s \times 20\text{mA}$
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8. OUTPUT CONTACTS

8.1 Indication

Hand Reset Flag

8.2 Contacts

3 normally open self reset

Make and Carry

for 2 sec 6.6kVA with 30A maximum

Break

The contacts are intended for use in circuits where a circuit breaker auxiliary switch breaks the trip current.

9. ENVIRONMENTAL WITHSTAND

Temperature - IEC 68-2-1/2

Operating range -10°C to +55°C
Storage range -25°C to +70°C

Humidity - IEC 68-2-3

Operational test 56 days at 40°C and 95% RH

Transient Overvoltage - IEC 255-5

Between all terminals and earth or between any two terminals without damage or flashover
5kV 1.2/50ms 0.5J

Insulation - IEC 255-5

Between any terminal and earth	2.0kV rms for 1 min
Between independent circuits	2.0kV rms for 1 min
Across normally open contacts	1.0kV rms for 1 min

Vibration

Relay complies with BS142, Section 2.2, category S2 (0.5g) over the frequency range of 10Hz to 800Hz.

Impact

Relay will withstand panel impact shocks of 20g.

Mechanical Classification

Durability In excess of 10⁵ operations