

Reyrolle Protection Devices



Measuring Relay

Answers for energy





7PG13 – MR Measuring Relay



Description

Type MR relays use the same electro-mechanical assemblies as type AR family of relays with a specific operating point. Type MR relays have a consistent positive action, a long service life and comply with BS142.

Model range a.c. current

MR101 Single element, no flag, self reset contacts MR111 Single element, hand reset flag, self reset contacts MR102 Single element, no flag, self reset contacts MR112 Single element, hand reset flag, self reset contacts

Application

Type MR relays are intended for use where a precise level of a.c. current is required to operate the relay. Type MR relays are robust and reliable in operation, suitable for instantaneous overcurrent or earth fault protection and/or in conjunction with other protection systems or plant.

Easy to test and maintain Fixed or plug bridge settings

Technical information

Fixed settings (MR101, MR111) Is Fixed setting relays are factory-set to a specific operating point (Where a range is shown this indicates the relay coil operating range.) 0.1A 0.2A 0.25A to 0.33A 0.4A to 0.5A 0.8A to 1.0A 2A to 2.5A 5A Variable setting (MR102 & MR112) Is Adjustable using a 7 step plug bridge. 0.1A to 0.4A 0.5A to 2A

Burden – Typically 3VA at the setting. Thermal withstand (continuous) 2 x Is Accuracy Is <u>+</u>5% Contact arrangements MR101 and MR111 2NO, 2NO + 2NC or 4NO MR102 & MR112 2NO, 2NO +2NC or 4NO

Contact ratings

Make and carry continuously: 1250VAa.c or 1250Wd.c. with limits of 660V and 5A

Make and carry for 3 seconds: 7500VAa.c. with limits of 660V and 30A

Break:

1250VA a.c. or 100W resistive d.c. or 50W inductive (L/R = 0.04) d.c. with limits of 250V and 5A

Indication MR111 and MR112 The types MR111 and MR112 has a mechanically operated hand reset flag.



Environmental

| 2 68-2-1 & 2 |
|--------------|
| D°C to +55°C |
| 5°C to +70°C |
| 68-2-3 |
| |
| |
| 255-21-2 |
| |

The relays comply with the requirements of BS142, section 1.5.11 1989, class 1 Shock and bump IEC 255-21-2

Relays meet the requirements with respect to shock and bump testing for class 1 severity.

Operational/Mechanical Life

Relays will withstand in excess of 10,000 operations Insulation: IEC 255-5

Relays will withstand:

 $5kV 1.2/50\mu s 0.5j$ between all terminals and case earth and between adjacent terminals.

2kV rms 50HZ for 1 minute between all case terminals connected together and the case earth and between independent circuits.

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



Ordering information – 7PG13MR



SIEMENS

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1) Number of contacts must match selected contact arrangement

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