



RELAYS

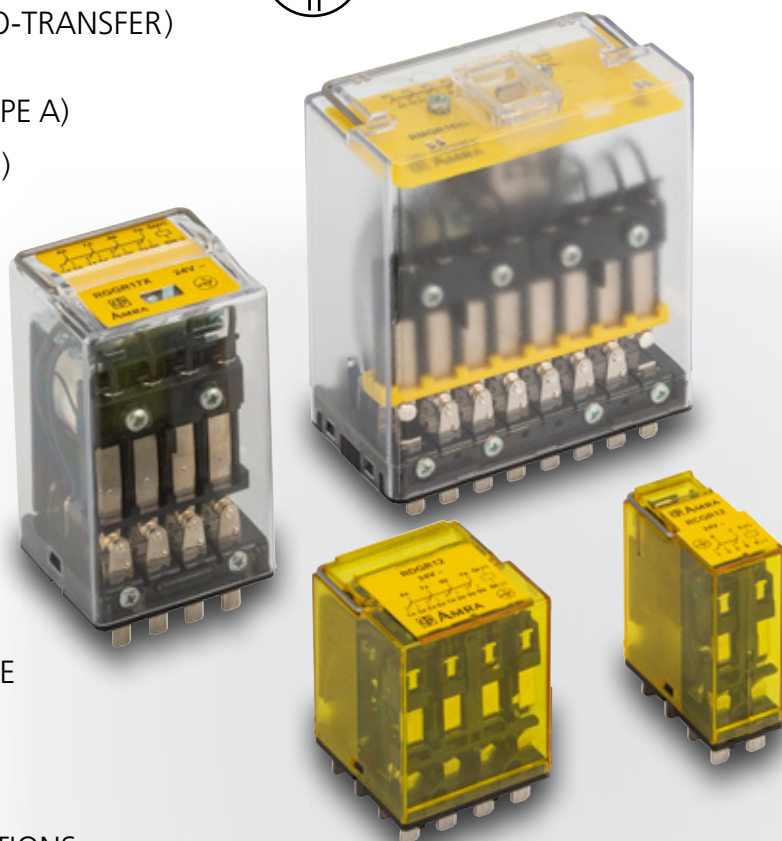
WITH FORCIBLY GUIDED CONTACTS



OVERVIEW



- FORCIBLY GUIDED CONTACTS (WELD-NO-TRANSFER)
- RELAYS COMPLIANT TO EN61810-3, (TYPE A)
OR NF F62-002 (§12.3.10, TEST METHOD)
- INSTANTANEOUS PLUG-IN RELAYS
FROM 2 TO 8 CONTACTS
- SUITABLE FOR SAFETY APPLICATIONS
- SOLID AND RUGGED CONSTRUCTION
FOR INTENSIVE DUTY USE
- VERY HIGH ELECTRICAL LIFE
EXPECTANCY, EXCEPTIONAL ENDURANCE
- SELF-CLEANING KNURLED CONTACTS
- SUITABLE FOR ROLLING STOCK APPLICATIONS
- WIDE RANGE OF SOCKETS



RELAYS WITH FORCIBLY GUIDED CONTACTS, WELD-NO-TRANSFER

These relays are equipped with mechanically linked contacts (forcibly guided), an indispensable feature for applications where there is a need to guarantee that make (NO) contacts will never assume the same status as break (NC) contacts. Forcibly guided contacts are also known as weld-no-transfer contacts.

TESTING ACCORDING TO EN61810-3

- If, when powering up a relay, a NC contact fails to open, the remaining NO contacts must not close, maintaining a contact gap ≥ 0.5 mm
- When the relay becomes de-energized, if a NO contact fails to open, the remaining NC contact must not close, maintaining a contact gap ≥ 0.5 mm

Two types of relay are defined:






- Type A: Relay whose contacts are **ALL** mechanically linked (forcibly guided).
- Type B: Relay containing mechanically linked contacts and contacts which are not mechanically linked.

In the case of relays that include changeover contacts, either the make circuit or the break circuit of a changeover contact can be considered to meet the requirements of this standard.

TESTING ACCORDING TO NF F62002 (§12.3.10)

- The NC contact is kept closed. Relay is energized with a voltage of 150% of U_{max} ($150\% * 125\% U_{nom} = 188\% U_{nom}$). NO contact should NOT close with a test load of 220V 50Hz, 10 mA.
- The NO contact is kept closed. NC contact should NOT close with a test load of 220V 50Hz, 10 mA.

5 MODELS FOR ANY NEEDS

| MODEL |  RCG |  RDG |  RGG |  RMGX |  RMGW |
|-----------------------------|---|---|---|---|---|
| CONTACTS | 2 C/O | 4 C/O | 4 C/O High breaking capacity | 6 C/O + 2 NO High breaking capacity | 8 C/O High breaking capacity |
| WELD-NO-TRANSFER COMPLIANCE | EN61810-3, Type A | | | | NF F62-002 (§12.3.10 test method) |

COMPLIANCE WITH STANDARDS

- EN 61810-3, Type A Relays with forcibly guided (mechanically linked) contacts (**RCG, RDG, RGG, RMGX**)
- NF F62-002 (§12.3.10) Weld-no-transfer contacts, test method (**RMGW**)
- EN 61810-1, EN 61810-2, EN 61810-7 Electromechanical elementary relays
- EN 60695-2-10 Fire hazard testing
- EN 50082-2 Electromagnetic compatibility
- EN 60529 Degrees of protection provided by enclosures
- EN 60077 Electric equipment for rolling stock - General service conditions and general rules
- EN 50155 Electronic equipment used on rolling stock
- EN 61373 Shock and vibration tests, Category 1, Class B
- EN 45545-2 Requirements for fire behaviour of materials and components Product No. EL10 Requirement R26, V0
- ASTM E162 Standard Test Method for Surface Flammability of Materials
- ASTM E662 Standard Test Method for Specific Optical Density of Smoke

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