

RELAYS

WITH FORCIBLY GUIDED CONTACTS



Plug-in instantaneous relays with 2 and 4 CO contacts

Compliant with IEC 61810-3 (Type A)

Suitable for safety applications

Self-cleaning engraved contacts

Magnetic blow-out for high breaking capacity











RELAYS COMPLIANT WITH THE IEC 61810-3 STANDARD

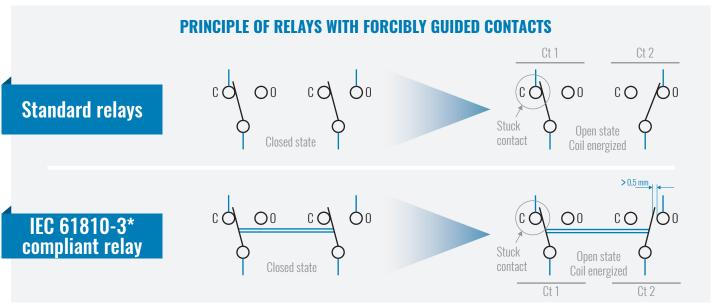
In relays with forcibly guided contacts, special design and construction features make it possible to guarantee that NO (normally open) contacts cannot be in the same state as NC (normally closed) contacts.

- If an NC contact does not open when a relay is energized, the remaining NO contact must not close and a contact distance ≥ 0.5 mm must be maintained
- When the relay is no longer energized, if an NO contact does not open, the remaining NC contact must not close and a contact distance ≥ 0.5 mm must be maintained

The IEC 61810-3 standard specifies the requirements for relays with forcibly guided contacts. This standard defines two types of forcibly guided relays:

- Type A: relays whose contacts are all forcibly guided,
- Type B: relays containing both forcibly guided and non-forcibly-guided contacts.

In the case of relays incorporating changeover contacts, they can be considered compliant with the standard if the NO circuit or the NC circuit of a changeover contact fulfils the requirements of this standard.



* Formerly EN 50205

Applications

ROLLING STOCK AND POWER SUBSTATIONS: FORCIBLY GUIDED CONTACTS MEET ALL THE









Applicable standards

COMPLIANCE WITH RAILWAY STANDARDS

IEC 61810-3

Type A

EN 60077-1

Electric equipment for rolling stock General service conditions and general rules EN 50125-1

Environmental conditions for equipment. Rolling stock and on-board equipment. Temperature class T3 (-25 °C to +70 °C) EN 61373

Rolling stock equipment Shock and vibration tests: Cat. 1 - Class B EN 45545-2+A May 2016

Fire protection on railway vehicles - Part 2: requirements for fire behaviour of materials and components

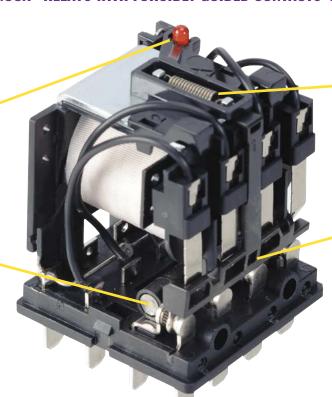
CHAUVIN ARNOUX® RELAYS WITH FORCIBLY GUIDED CONTACTS: MAIN FEATURES

Coil status display diode

To check quickly whether a voltage is present in the coil

Magnetic blow-out

Increases the contacts' breaking capacity



Protection of the return spring

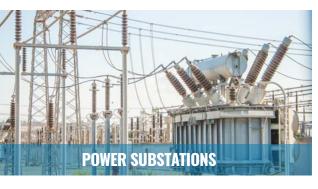
Prevents the spring from falling into the body of the relay if it fails

CO contacts

The relays are equipped as standard with changeover contacts for a wider choice of configurations compared with relays equipped only with normally-closed (NC) or normally-open (NO) contacts

REQUIREMENTS





Engraved contacts which are unique on the market

Relays with engraved forcibly guided contacts, a technology developed by Chauvin Arnoux, offer the advantage of breaking both light and heavy loads on the same contact.



			2.0 B	
Continuo	usly-powered coil	•		
Rated voltage		24 - 36 - 48 - 72 - 110 - 125 - 132 - 230 Vpc*		
Coil consumption		2.2 W	2.7 W	
Range of action		0.7 to 1.25 Un		
Specifica	tions of contacts			
Number and type		2 type-A CO contacts	4 type-A CO contacts	
Intensité nominale		10 A		
Inter- rupting capacity	Standard	0.2 A - 110 Vpc - L/R 40ms (500,000 operations)		
	with blow-out magnet	0.5 A - 110 Vpc - L/R 40ms (150,000 operations)		
	with blow-out super-magnet	0.7 A - 110 Vpc - L/R 40ms (100,000 operations)		
Minimum load		200 mW (Vmin: 10 V - Imin: 10 mA)		
Mechanio	cal specifications			
Mechanical life span		20 x 10 ⁶		
Ingress protection		IP50		
Dimensions (LxlxH)		40 x 20 x 50 mm	40 x 40 x 50 mm	
Weight		60 g	115 g	
Environm	ent			
Operating temperature		-40 °C to +70 °C (85°C for 10 min)		
Available	options			
		Gold-plated contacts		
	Display diode			
		eel diode		
		Transil TVS diode		
		Safety blank		
		blow-out magnet		
		blow-out super-magnet (High Power)		
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Enerdis proposes more than 200 references for instantaneous, time-delay and function relays for all your industrial requirements

Accessories

Front co	nnector	Rear connector		
PAIR080 / PAIR160	48BIP20 / 50IP20	PRIR080 / PRIR160	53IL / 43IL	ADF1 / ADF2
Cage Clamp connection	Screw connection	Cage Clamp connection	Screw connection	Double faston connection



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^{*} Other voltages on request