



INSTANTANEOUS AND FUNCTION RELAYS



Latching relays 3 contacts / GADF



GADF

- ▶ rear wiring socket with clips ER/GE 2.8
- ▶ rear wiring socket / PCB mounting ER/GE
- ▶ front wiring socket with clips EVC/GE
- ▶ front wiring socket with clips 9876
- ▶ front wiring socket / screw terminals EVB/GE
- ▶ front wiring socket / screw terminals 9877

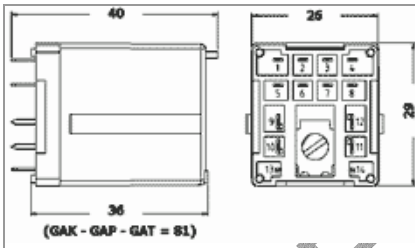
DESCRIPTION

Latching compact relay with magnetic hold - 3 CO contacts with 2 directions and single cut-off - 3 A.

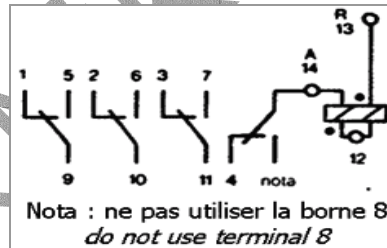
Directly solderable on PCB or pluggable on socket. Pins at the standard pitch of 2.54 mm.

GAD relay is pluggable on the following sockets : EVB/GE, 9877, EVC/GE, 9876, ER/GE 2.8, or ER/GE.

Dimensions



Connection



OPERATION PRINCIPLE

Control mode :

* pulsed : type GADF "low level" relay

* permanent : type GADF + GCD (external auto cut-off device with the same dimension of the GAD)

TECHNICAL FEATURES

Function	latching with magnetic hold
Presentation	under cover
Connection	on front or rear wiring socket or on PCB
Number of mechanical operations	20.000.000
Operating temperature	- 5°C to + 40°C
Storage temperature	- 25°C to + 55°C
Dielectric strength	2000 V eff
Insulation resistance	> 200.000 MOhms
Weight	40 g.
Protection level	IP40 (according to NFC 20-010)

COIL DATA

	Direct current	Alternative current	
Min. nominal voltage DC	6 V	6 V	
Min. nominal voltage AC	125 V	127 V 50 Hz	
Operating range	-20/+10% of nominal voltage		
Power requirement	operate : 3,5 W - release : 0,5 W	1,4 VA + or - 20%	0,25 VA + or - 30%

CONTACTS

Number of contacts	3
Max. load current	3 A
Low power switching	50 mV - 1 mA
Response time	2,5 to 8 ms
Bounce time	4 to 10 ms

OPERATION DIAGRAM

CONTROL MODE

GAD = permanent control by the +
GAD = Commande permanente par le +

GAD = permanent control by the -
GAD = Commande permanente par le -

GAD = permanent control
GAD = Commande permanente

Appel / Borne à ne pas utiliser / Relâchement
Appel / Borne à ne pas utiliser / Relâchement
Appel / Borne à ne pas utiliser / Relâchement

Bloc d'autocoupage GCD / GCD control block
Appel = pull in - relâchement = drop out - bornes à ne pas utiliser = terminals not to be used

Valeur des composants du GCD / Values of GCD components

Tensions DC ou AC / Voltages DC or AC	Resistance P = 1 W - tolérances ± 5%	Capacité / capacitance
6 V	0,47 Ω	1500 µF 6,3 V
12 V	2,7 Ω	440 µF 25 V
24 V	5,6 Ω	100 µF 40 V
48 V	27 Ω	22 µF 100 V
120 & 127 V	200 Ω	4,7 µF 160 V

VERSIONS

Homologations & conformities :

* EDF : qualified according to specification 45S27 and test of resistance to seisms (K3 qualification is obtained only when the relay is tested with the equipment on which it is mounted).

