

Features

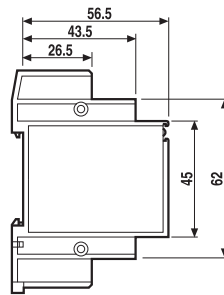
Auto-Off-On over-ride relay

- 3 function selector switch:
 - Auto (works as a monostable relay)
 - Off (relay permanently OFF)
 - On (relay permanently ON)
- AC/DC universal operation
- LED indicator
- Isolation between supply and contact terminals
- 35 mm rail (EN 60715) mount

19.21



- 11.2 mm wide
- 1 pole output contact
- Feedback contact



Contact specification

Contact configuration		1 CO (SPDT)
Rated current/Max. peak current	A	10/15
Rated voltage/Max. switching voltage	V AC	250/400
Rated load AC1	VA	2,500
Rated load AC15 (230 V AC)	VA	500
Single phase motor rating (230 V AC)	kW	0.44
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)
Standard contact material		AgSnO ₂

Supply specification

Nominal voltage	V AC (50/60 Hz)	24
	V DC	24
Rated power AC/DC	VA (50 Hz)/W	0.6/0.4
Operating range	V AC	(0.8...1.1)U _N
	V DC	(0.8...1.1)U _N

Technical data

Mechanical life	cycles	10 · 10 ⁶
Electrical life at rated load in AC1	cycles	100 · 10 ³
Insulation between coil and contacts (1.2/50 μs)	kV	4
Dielectric strength between open contacts	V AC	1,000
Ambient temperature range	°C	-10...+50
Protection category		IP 20

Approvals (according to type)



Ordering information

Example: 19 series relay modular Auto-Off-On, 1 CO (SPDT) 10 A contact, 24 V AC/DC supply.

1 9 . 2 1 . 0 . 0 2 4 . 0 0 0 0

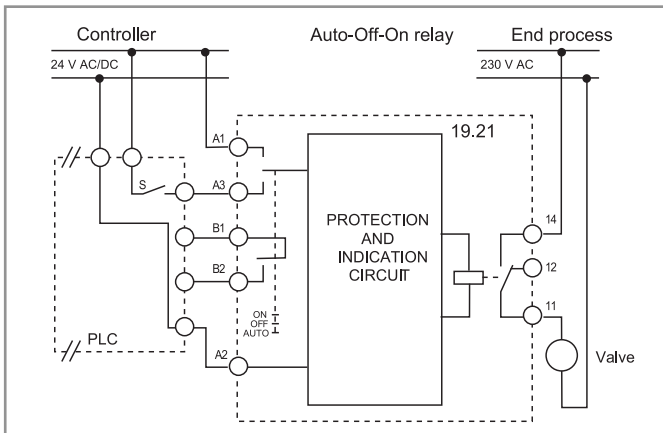
Series
Type
 2 = 35 mm rail (EN 60715) mount, 11.2 mm
No. of poles
 1 = 1 pole

Contact material
 0 = Standard AgSnO₂
Supply voltage
 024 = 24 V
Supply version
 0 = AC (50/60 Hz)/DC

Technical data

Insulation				
	insulation between coil and contacts (1.2/50 μs)	kV	4	
Dielectric strength	between supply and contacts	V AC	3,000	
	between open contacts	V AC	1,000	
Other data				
Power lost to the environment	without contact current	W	0.4	
	with rated current	W	1.8	
Max. wire size		solid cable	stranded cable	
		mm ²	1x6 / 2x2.5	1x4 / 2x1.5
		AWG	1x10 / 2x14	1x12 / 2x16
Screw torque		Nm	0.5	

Wiring diagram



Feedback contact (B₁ - B₂) is rated at 24 V AC/DC (300 mA) maximum.

Principle of operation

Many processes or systems rely on automatic control from a plc or dedicated electrical controller. However, should the controller fail it may be critically important to be able to by-pass certain controller outputs and establish manual control. Under such circumstances, interposing an Auto-Off-On relay between the output contact of the controller and the process may provide the appropriate override facility.

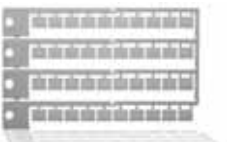
Selector position

Selector switch	Control switch (S)	Output relay	LED	Feedback contact (B ₁ - B ₂)
AUTO	Closed	ON	ON	Closed
	Open	OFF	OFF	Closed
ON	—	ON	ON	Open
OFF	—	OFF	OFF	Open

Feedback contact (B₁ - B₂) signals when the selector switch is in the Auto position. The LED indicates the state of the output relay.

On failure of the controller the end process can be manually turned On or Off, as required, by the selector switch on the 19.21 fascia. Under the healthy operation of the controller, the selector switch is set to Auto, in which case the process is controlled automatically through the normal functioning of the controller output contact(s). It may also be important to know when the process is under manual or automatic control, and a feedback contact within the 19.21 can be used to provide this information.

Accessories



Sheet of marker tags, 40 tags, plastic, 8x10 mm

019.40