

**PAAA / PAAB
DAAA / DAAB
SAAA / SAAB**

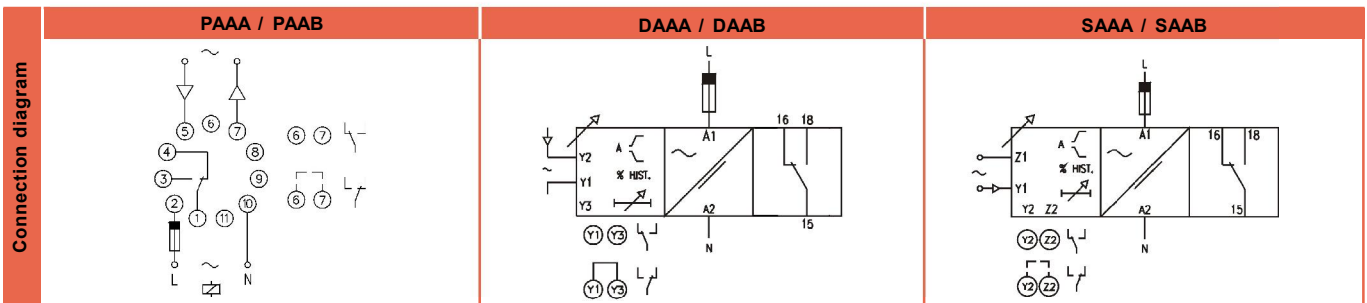
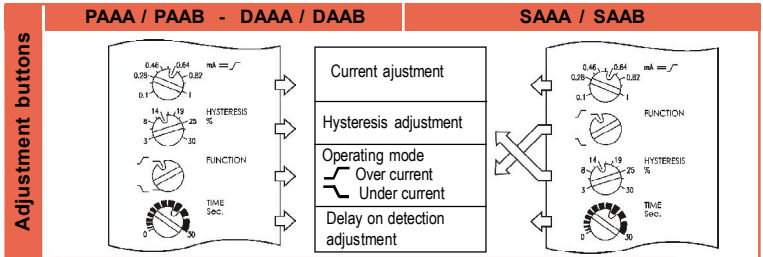
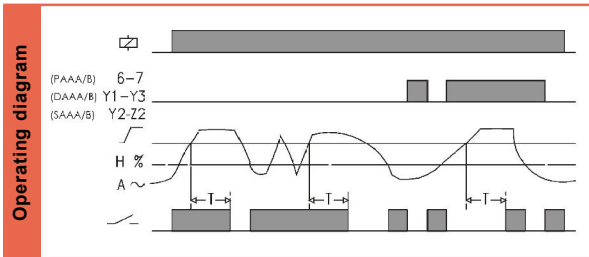


CURRENT RELAY

Difference	Current relay for general purpose.
Measurement	Detection in AC single phase.
Operating principle	<p>Maximum current - Selector in "⌋" position. When the supply voltage is connected, if the measure current is less than the pre-set value, the relay operates instantaneously. When the measure current exceeds the pre-set value, the relay releases after the time pre-set in the time control, and remains so until the measure current goes below the value pre-set in the hysteresis control. When supply voltage is connected, if the measure current exceeds the pre-set value, the relay operates instantaneously and remains so for a time equal to the one adjusted in the time control and releases afterwards.</p> <p>Minimum current - Selector in "⌋" position. When the supply voltage is connected, if the measure current exceeds the pre-set value, the relay operates instantaneously. When the measure current goes below the value pre-set in the hysteresis control, the relay releases after the time pre-set in the time control, and remains so until the current exceeds the pre-set value. When the supply voltage is connected, if the measure current is less than the value pre-set in the hysteresis control, the relay operates instantaneously and remains so for a time equal than the one pre-set in the time control. If within this interval of time the measure current exceeds the pre-set value, the relay remains operated.</p>
Relay Inversion	By linking the terminals 6-7 (PAAA/B), Y1-Y3 (DAAA/B) or Y2-Z2 (SAAA/B), the relay reverses the contacts position.
Leds indication	Power on: Green Relay on: Red
Currents greater than 5A	When currents greater than 5 A are to be controlled, one current transformer ratio X/5, class 1 must be used, where X is the closest value to the current to be controlled.
Hysteresis	Adjustable between 3% and 30% of the detection pre-set value.
Timing	Delay on detection adjustable from 0 to 30 s.

Reference	HOUSING	FUNCTION	OUTPUT	VOLTAGE	RANGE	RANGE	SHUNT	I max.		
P D S	Plug in DIN rail Flush mounting	A A	Current relay	A SPDT B DPDT	024	24 VAC	1MA	0,1..1 mA	220 Ω	10 mA
					110	110..125 VAC	5MA	0,5..5 mA	47 Ω	20 mA
					230	220..240 VAC	A02	2..20 mA	4,7 Ω	100 mA
					400	380..415 VAC	A10	10..100 mA	1 Ω	500 mA
					440	440 VAC	A20	20..200 mA	1 Ω	1 A
					901	15..70 VAC/DC	A50	50..500 mA	0,22 Ω	2 A
					902	60..240 VAC/DC	1 A	0,1..1 A	0,1 Ω	4 A
							2 A	0,2..2 A	0,05 Ω	6 A
							5 A	0,5..5 A	0,02 Ω	10 A

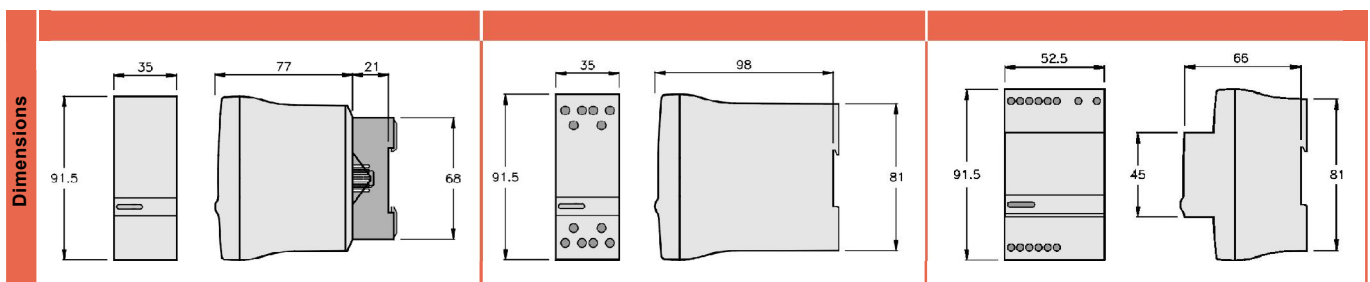
To compose the reference, select one option of each column. Example: **PAAA 024 1MA**



		PAAA	PAAB	DAAA	DAAB	SAAA	SAAB	
Output relays								
	Resistive load	AC	10 A / 250 V	8 A / 250 V	10 A / 250 V	8 A / 250 V	10 A / 250 V	8 A / 250 V
		DC	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V
	Inductive load	AC	5 A / 250 V	2,5 A / 250 V	5 A / 250 V	2,5 A / 250 V	5 A / 250 V	2,5 A / 250 V
		DC	5 A / 24 V	4 A / 24 V	5 A / 24 V	4 A / 24 V	5 A / 24 V	4 A / 24 V
	Mechanical life		> 30 x 10 ⁶ operations		> 30 x 10 ⁶ operations		> 30 x 10 ⁶ operations	
	Max. switching rate, mech.		72.000 operations / hour		72.000 operations / hour		72.000 operations / hour	
	Electrical life at full load		360 operations / hour		360 operations / hour		360 operations / hour	
	Contact material		AgNi 90/10		AgNi 90/10		AgNi 90/10	
	Maximum voltage		440 VAC		440 VAC		440 VAC	
	Operating voltage		250 VAC		250 VAC		250 VAC	
	Volt. between changeovers		2500 VAC		2500 VAC		2500 VAC	
Voltage between contacts		1000 VAC		1000 VAC		1000 VAC		
Voltage coil/contact		5000 VAC		5000 VAC		5000 VAC		
Distance coil/contact		10 mm		10 mm		10 mm		
Isolation resistance		> 10 ⁴ MΩ		> 10 ⁴ MΩ		> 10 ⁴ MΩ		

Supply	AC		DC	
	Galvanic isolation	Yes	No	
	Frequency	50 / 60 Hz	-	
	Operating margins	±10..-15%	± 10%	
	Protected polarity	-	Terminal 2	Terminal A1
	-	Sí		

Constructive and environmental data	Voltage phase-neutral	300 V	300 V	300 V
	Overtoltage category	III	III	III
	Rated impulse voltage	4 kV	4 kV	4 kV
	Pollution degree	2	3	3
	Protection	IP 20 B	IP 20	IP 20
	Approximate weight	250 g	280 g	280 g
	Storage temperature	-50..+85°C	-50..+85°C	-50..+85°C
	Operating temperature	-20..+50°C	-20..+50°C	-20..+50°C
	Humidity	30..85% HR	30..85% HR	30..85% HR
	Housing	Cyclopy - Light grey	Cyclopy - Light grey	Cyclopy - Light grey
	Socket	Lexan - Light grey	-	-
	Leds cover	Lexan - Transparent	Lexan - Transparent	Lexan - Transparent
	Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue	Technyl - Dark blue
Pins of the socket	Nickel-plated brass	-	-	
Pins of the terminal block	-	Brass	Brass	
Approvals	Designed and manufactured under EEC standards. Electromagnetic compatibility , directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC. Plastics: UL 91 V0			



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