

**PABA / PABB  
DABA / DABB  
SABA / SABB**

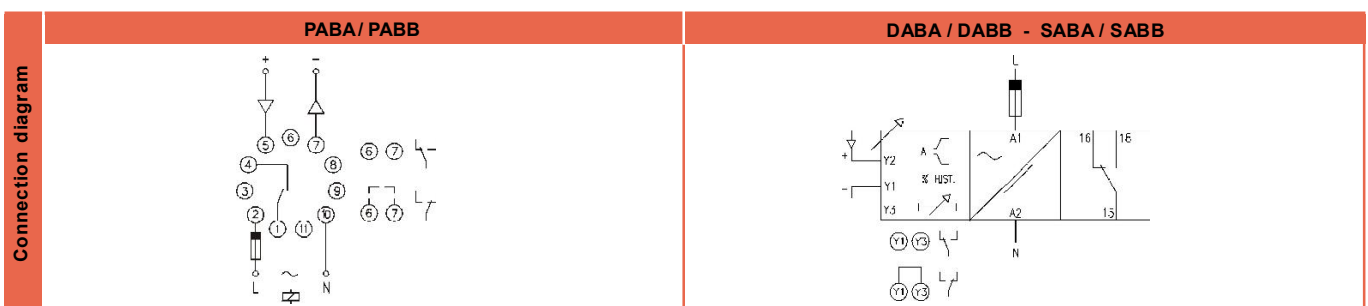
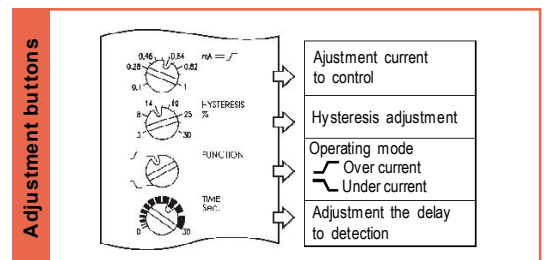
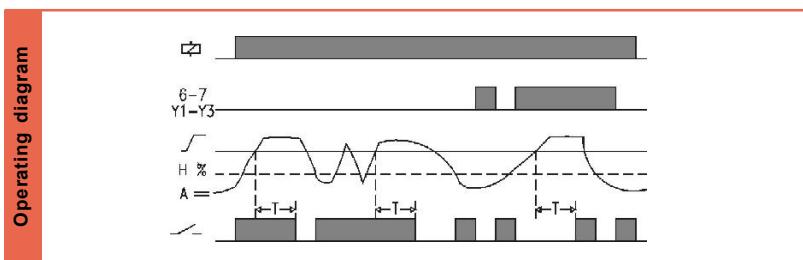


**CURRENT RELAY**

Difference	Current relay for general purpose.
Measurement	Detection in DC single phase.
Operating principle	<p><b>Maximum current</b> - 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><b>Minimum current</b> - Selector in "⌋" position. When the supply voltage is connected, if the measure current is greater than 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 (PABA/B) or Y1-Y3 (DABA/B - SABA/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.

	HOUSING	FUNCTION	OUTPUT	VOLTAGE	RANGE	RANK	SHUNT	I max.
Reference	P Plug-in D DIN rail S Flush mounting	A B 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	47Ω	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	1 A	0,1..1 A	0,1 Ω	4 A
				902 60..240 VAC/DC	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: **PABA 024 1MA**



		PABA	PABB	DABA	DABB	SABA	SABB	
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 <sup>6</sup> operations		> 30 x 10 <sup>6</sup> operations		> 30 x 10 <sup>6</sup> 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 <sup>4</sup> MΩ		> 10 <sup>4</sup> MΩ		> 10 <sup>4</sup> MΩ		

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

	PABA / PABB	DABA / DABB	SABA / SABB
Voltage phase-neutral	300 V	300 V	300 V
Overvoltage 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	Cycloley - Light grey	Cycloley - Light grey	Cycloley - 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		

	PABA / PABB	DABA / DABB	SABA / SABB
Dimensions			

Rev. 00/00 - 31/05/05 · DISIBEINT reserves the right to modify the specifications stated in this document without previous notice