

**PVHA / PVHB  
DVHA / DVHB  
SVHA / SVHB**



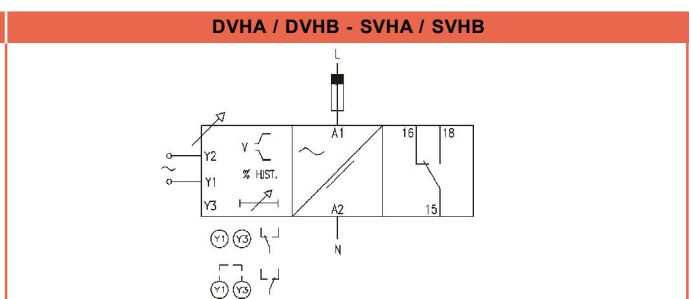
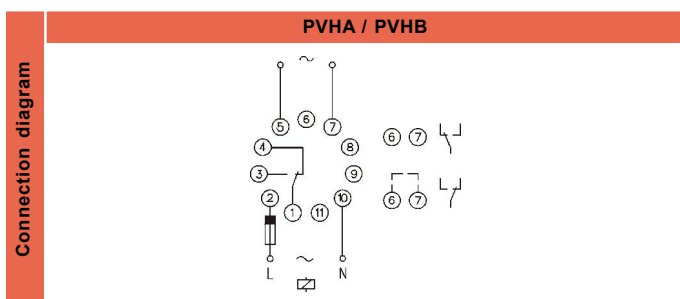
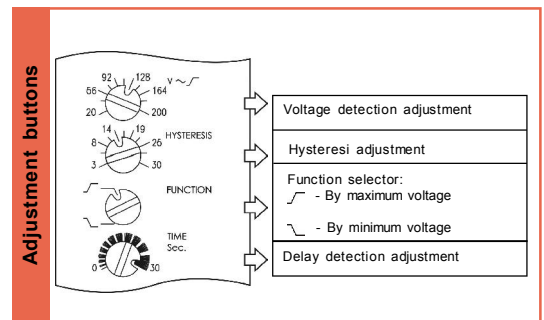
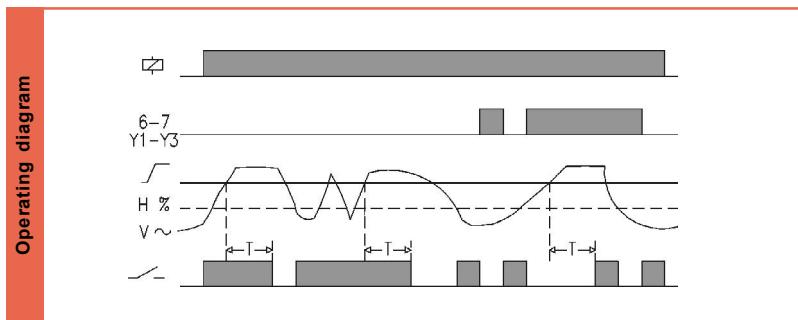
**VOLTAGE RELAY**



Difference	Relay for maximum or minimum voltage. Control of a secondary voltage.
Measurement	AC single phase
Operating principle	<p><b>Maximum voltage</b> - Selector in “” position. When the supply voltage is connected, if the measure voltage is less than the pre-set one, the relay operates. When the measure voltage exceeds the pre-set value, the relay releases after the time adjusted in the time control, and remains so until the voltage goes below the value pre-set in the hysteresis control. When the supply voltage is connected, if the measure voltage is greater the pre-set one, the relay operates and remains so for a time equal than the one pre-set in the time control.</p> <p><b>Minimum voltage</b> - Selector in “” position. When the supply voltage is connected, if the measure voltage is greater than the pre-set one, the relay operates. When the measure voltage 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 voltage exceeds the pre-set value. When the supply voltage is connected, if the measure voltage is less than the value pre-set in the hysteresis control, the relay operates and remains so for a time equal than the one pre-set in the time control. If while this time is running the measure voltage exceeds the pre-set value, the relay remains operated.</p>
Relay Inversion	By linking the terminals 6-7 (PVHA/B) or Y1-Y3 (DVHA/B) , the relay reverses the contacts position.
Leds indication	Power on: Green Relay on: Red
Hysteresis	Adjustable between 3 and 30%
Timing	Delay on detection adjustable from 0 to 30 Sec.

Reference	HOUSING	FUNCTION	OUTPUT	VOLTAGE	RANGES			
					RANGE	V <sub>máx</sub>		
P D S	Plug in DIN rail Flush mounting	V H Voltage relay	A SPDT B DPDT	024	24 VAC	4V 20V 50V 200 500	0,4..4 VAC 2..20 VAC 5..50 VAC 20..200 VAC 50..500 VAC	50 VAC 100 VAC 200 VAC 350 VAC 500 VAC
				110	110..125 VAC			
				230	220..240 VAC			
				400	380..415 VAC			
				440	440 VAC			
				901	15..70 VAC/DC			
902	60..240 VAC/DC							

To compose the reference, select one option of each column. Example: **PVHA 024 50V**



		PVHA	PVHB	DVHA	DVHB	SVHA	SVHB	
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	
	PVHA / PVHB	DVHA/B - SVHA/B	PVHA/PVHB	DVHA/B - SVHA/B
Galvanic isolation	Yes		No	
Frequency	50 / 60 Hz		-	
Operating margins	±10% -15%		±10%	
Positive	-		Terminal 2	Terminal A1
Protected polarity	-		Yes	

Constructive and environmental data	PVHA / PVHB	DVHA / DVHB	SVHA / SVHB	
	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°C +85°C	-50°C +85°C	-50°C +85°C
	Operating temperature	-20°C +50°C	-20°C +50°C	-20°C +50°C
	Humidity	30~85% HR	30~85% HR	30~85% HR
	Housing	Cyclopol - Light grey	Cyclopol - Light grey	Cyclopol - 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			

Dimensions	PVHA / PVHB	DVHA / DVHB	SVHA / SVHB

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