

PVEA / PVEB DVEA / DVEB

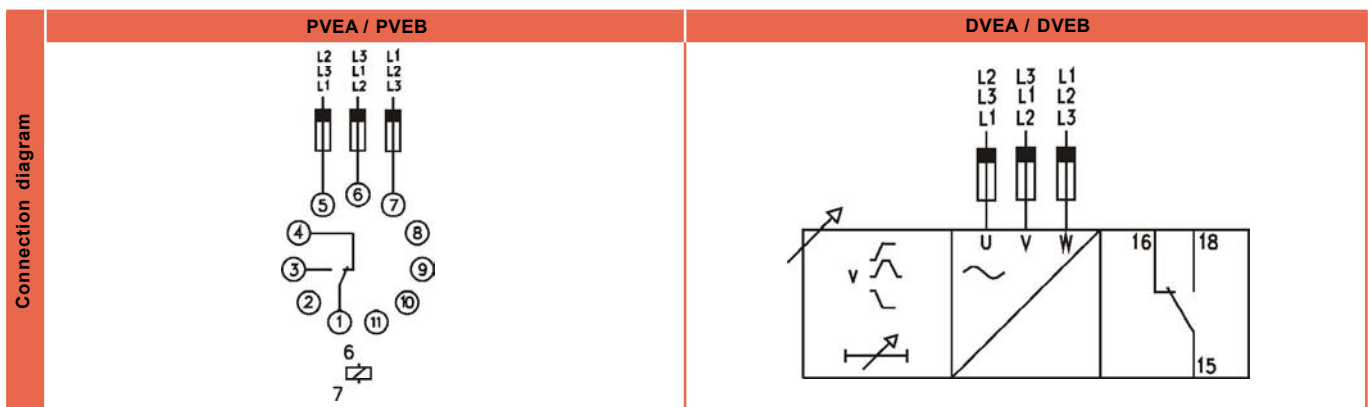
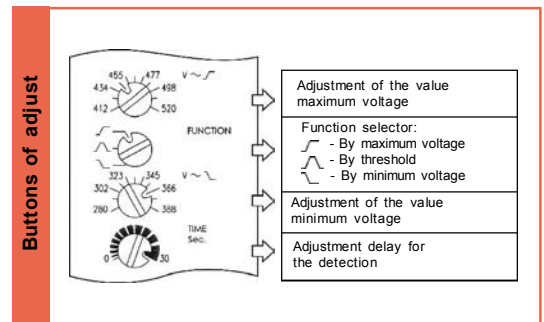
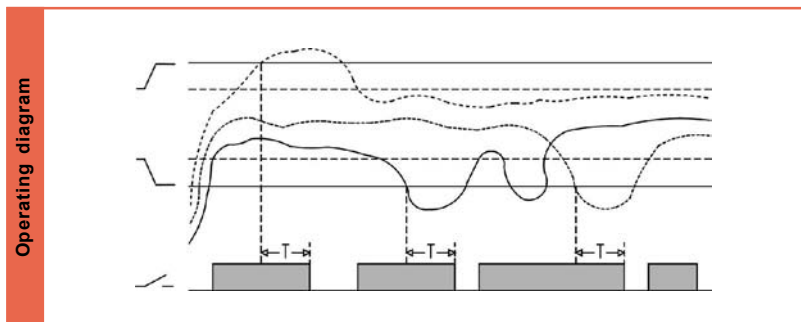


VOLTAGE RELAY FOR THREE-PHASE LINES

Difference	<ul style="list-style-type: none"> Relay for maximum, minimum or threshold voltage. Controls its own power supply.
Measurement	Three-phase line without neutral.
Operating principle	<p>Threshold - Selector in “” position. The relay remains operated while the value of the supply voltage is less than the maximum pre-set value or greater than the minimum pre-set value. If the supply voltage exceeds the maximum pre-set value or goes below the minimum pre-set value, the relay releases after the time pre-set in the time control.</p> <p>Maximum or Minimum - In the Maximum and Minimum modes, the relay works only in one of the two states, according to the selected one.</p> <p>In all the modes, it's understood that the voltage can vary with the three phases together or phase by phase.</p>
Function	The function mode is selected through the “” rotary switch.
Leds indication	Power on: Green Relay on: Red
Regulation	±18% over the nominal voltage.
Hysteresis	1%. fix.
Timing	Delay on detection adjustable from 0 to 30 seconds.

	HOUSING	FUNCTION	OUTPUT	VOLTAGE			
				MINIMUM ()	MAXIMUM ()		
Reference	P	Plug-in	A	SPDT	110	90,2..106,7 VAC	113,3..129,8 VAC
	D	DIN rail			B	DPDT	230
					400	328..388 VAC	412..472 VAC
					415	340,3..402,55 VAC	427,45..489,7 VAC
				440	360,8..426,8 VAC	453,2..519,2 VAC	

To compose the reference, select one option of each column. Example: **PVEA 230**



		PVEA	PVEB	DVEA	DVEB	
Output relays						
	Resistive load	AC	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
	Inductive load	AC	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
	Mechanical life		> 30 x 10 ⁶ operations		> 30 x 10 ⁶ operations	
	Max. switching rate, mech.		72.000 operations / hour		72.000 operations / hour	
	Electrical life at full load		360 operations / hour		360 operations / hour	
	Contact material		AgNi 90/10		AgNi 90/10	
	Maximum voltage		440 VAC		440 VAC	
Operating voltage		250 VAC		250 VAC		
Volt. between changeovers		2500 VAC		2500 VAC		
Voltage between contacts		1000 VAC		1000 VAC		
Voltage coil/contact		5000 VAC		5000 VAC		
Distance coil/contact		10 mm		10 mm		
Isolation resistance		> 10 ⁴ MΩ		> 10 ⁴ MΩ		

Supply	AC	
	PVEA / PVEB	DVEA / DVEB
Galvanic isolation	Yes	
Frequency	50 / 60 Hz	
Operating margins	±10% -15%	
Positive	-	
Protected polarity	-	

Constructive and environmental data	PVEA / PVEB	DVEA / DVEB	
	Voltage phase-neutral	300 V	300 V
	Overvoltage category	III	III
	Rated impulse voltage	4 kV	4 kV
	Pollution degree	2	3
	Protection	IP 20 B	IP 20
	Approximate weight	250 g	280 g
	Storage temperature	-50°C +85°C	-50°C +85°C
	Operating temperature	-20°C +50°C	-20°C +50°C
	Humidity	30~85% HR	30~85% HR
	Housing	Cycloley - Light grey	Cycloley - Light grey
	Socket	Lexan - Light grey	-
	Leds cover	Lexan - Transparent	Lexan - Transparent
Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue	
Pins of the socket	Nickel-plated brass	-	
Pins of the terminal block	-	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	PVEA / PVEB	DVEA / DVEB

Rev. 02/00 - 12/09/12 - DISIBEINT reserves the right to modify the specifications stated in this document without previous notice