

# PVFA / PVFB DVFA / DVFB

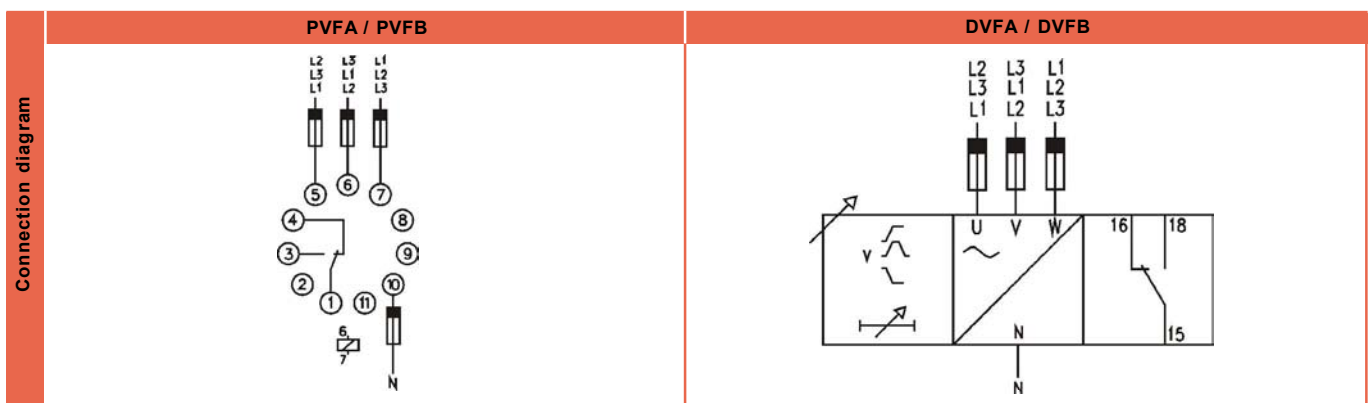
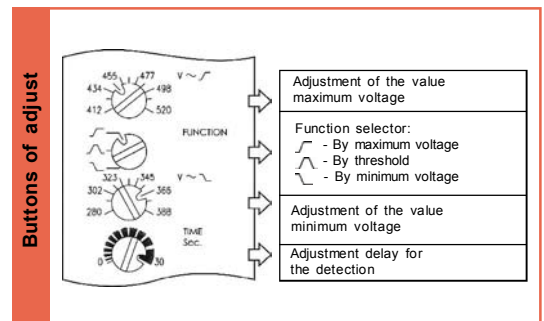
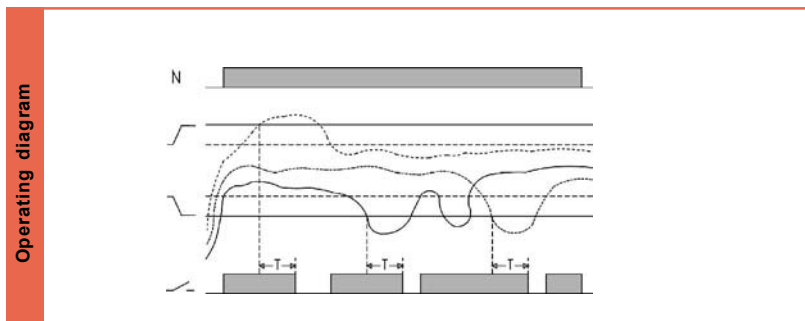


## VOLTAGE RELAY FOR THREE-PHASE LINES

Difference	<ul style="list-style-type: none"> <li>Relay for maximum, minimum or threshold voltage.</li> <li>Controls its own power supply.</li> </ul>
Measurement	Three-phase line with neutral.
Operating principle	<p><b>Threshold</b> - 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><b>Maximum or Minimum</b> - 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 with phase and neutral.</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 s.

	HOUSING		FUNCTION		OUTPUT		VOLTAGE		
							MINIMUM (⌋)	MAXIMUM (⌋)	
Reference	P	Plug-in	V F	Voltage relay	A	SPDT	110	52,08..61,60 VAC	65,41..74,94 VAC
	D	DIN rail					220	104,15..123,21 VAC	130,83..149,88 VAC
							400	189,37..224,04 VAC	237,87..272,51 VAC
							415	196,47..232,41 VAC	246,79..282,73 VAC
							440	208,31..246,41 VAC	261,66..299,76 VAC
							The values are referred to the voltage between phase and neutral.		

To compose the reference, select one option of each column. Example: PVFA 220



		PVFA	PVFB	DVFA	DVFB	
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	0,25 A / 200 V	0,4 A / 200 V	0,25 A / 200 V
	Inductive load	AC	10 A / 24 V	8 A / 24 V	10 A / 24 V	8 A / 24 V
		DC	5 A / 250 V	2,5 A / 250 V	5 A / 250 V	2,5 A / 250 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	
		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 <sup>4</sup> MΩ		> 10 <sup>4</sup> MΩ		

Supply	AC	
	PVFA / PVFB	DVFA / DVFB
Galvanic isolation	Yes	
Frequency	50 / 60 Hz	
Operating margins	±10% -15%	
Positive	-	
Protected polarity	-	

Constructive and environmental data	PVFA / PVFB	DVFA / DVFB	
	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	Cyclopy - Light grey	Cyclopy - 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	PVFA / PVFB	DVFA / DVFB

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