

# PTBC DTBC

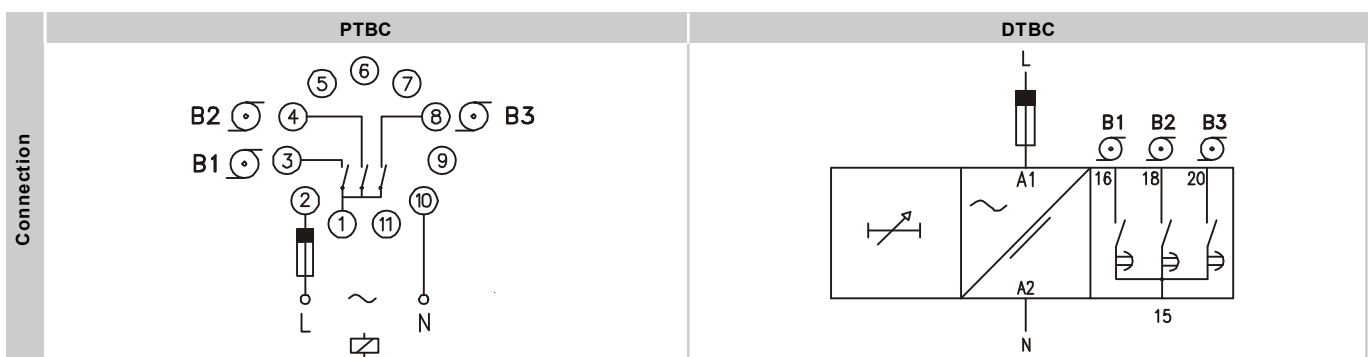
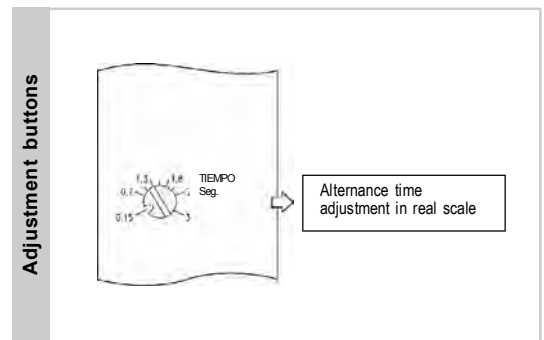
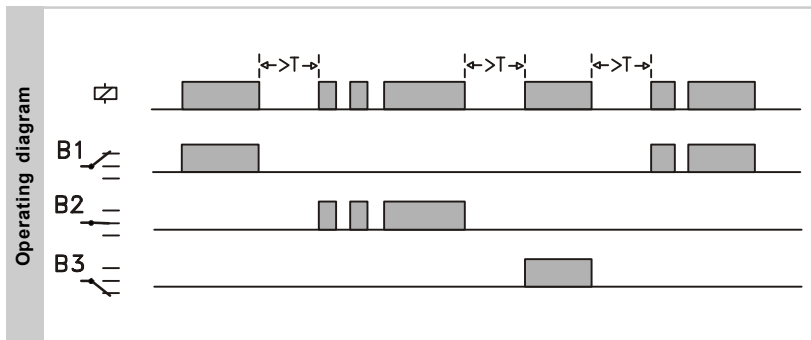


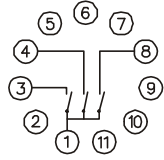
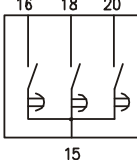
## TIMER CONTROL ALTERNATIVE THREE PUMPS

Function	Alternative control of three pumps.
Differential character	The voltage that feeds the relay PTBC / DTBC is provided by the system that controls the level of liquid in the container, either a level control relay, a magnetic switch, float switches, etc.
Operating principle	When connecting the power supply relay is activated that triggers row in the last cycle, for example B1. When disconnecting the power supply, the relay B1 is deactivated and the time circuit starts up. If you connect the power supply before the preset time elapses, it activates the relay. If you connect the power supply after a preset time elapses, the relay is activated B2. This alternation is repeated on a cyclical basis and consecutive (B1> B2> B3> B1> B2 ...)
Connection time	For a correct move, the voltage must be connected for: - Standard Voltages: 600 ms - Multivoltage 901 (15..70 VACDC): 900 ms - Multivoltage 902 (60..240 VDC): 700 ms
Pumps connection	The contactor of each of the three pumps should be operated by each of the relay contacts 3-4-8 (PTBC) or 16-18-20 (DTBC).
Indication leds	A red LED for each relay on
Repeatability time	± 1%
Time precision	± 10%
Reset	Removing power for a time exceeding the set time.

Reference	HOUSING	FUNCTION	OUTPUT	VOLTAGE	RANGE
	P Plug-in D DIN rail	T B Alternative control pumps	C 3 NA	<b>U24</b> 24 VAC/DC <b>724</b> 24 VDC <b>024</b> 24 VAC <b>110</b> 110..125 VAC <b>230</b> 220..240 VAC <b>400</b> 380..415 VAC <b>901</b> 15..70 VAC/DC <b>902</b> 60..240 VAC/DC	<b>3S</b> 0,15..3 S

To compose a reference, select an option from each of the columns. Example: **PTBC 230 3S**



		PTBC		DTBC	
					
Output relays	Resistive load	AC	6 A / 250 V	6 A / 250 V	
		DC	0,2 A / 200 V 6 A / 24 V	0,2 A / 200 V 6 A / 24 V	
	Inductive load	AC	3 A / 250 V	3 A / 250 V	
		DC	0,12 A / 200 V 3 A / 24 V	0,12 A / 200 V 3 A / 24 V	
	Mechanical life		> 30 x 10 <sup>6</sup> operations		
	Max. switching rate, mech.		72.000 operations / hour		
	Electrical life at full load		360 operations / hour		
	Contact material		AgNi 90/10		
	Maximum voltage		440 VAC		
	Operating voltage		250 VAC		
Volt. between changeovers		2500 VAC			
Voltage between contacts		1000 VAC			
Voltage coil/contact		5000 VAC			
Distance coil/contact		10 mm			
Isolation resistance		> 10 <sup>4</sup> MΩ			

	AC		DC		ACDC	
	PTBC	DTBC	PTBC	DTBC	PTBC	DTBC
Galvanic isolation	No		No		9XX: Yes	UXX: No
Frequency	50/60 Hz		-		-	
Operating margins	± 15%		± 10%		-	
Positive	-		Terminal 2	Terminal A1	Terminal 2	Terminal A1
Protected polarity	-		Yes		Yes	

	PTBC	DTBC
	Voltage phase-neutral	300 V
Oversvoltage 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	Cycoloy - Light grey	Cycoloy - 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	Nickled brass	-
Pins of the terminal block	-	Brass

Designed and manufactured under EEC normative.  
 Directives referred:  
 Electromagnetic compatibility: **EMC 2004/108/EEC**. Low voltage: **LVD 2006/95/EEC**.  
 Hazardous substances: **2011/65/EEC** Plastics: **UL 91 V0**

Dimensions	PTBC		DTBC	
				

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