

PTGA



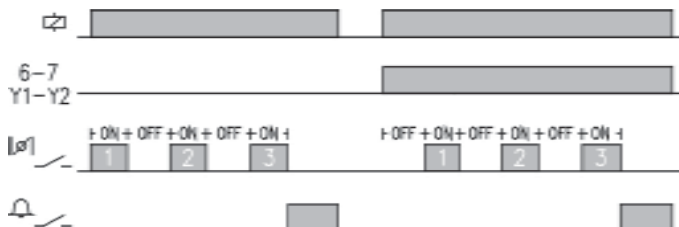
TIMER FOR STARTING-UP GENERATORS

Function	Timed control for the starting of generators.
Difference	Multirange - Monovoltage
Operating principle	<p>When the supply voltage is connected, the circuit for the ON pre-set time starts up. After this time, the relay operates and remains so during the OFF pre-set time. The cycle repeats itself as many times as selected in the switch "Number of starts-up".</p> <p>The time ON corresponds to the start-up time of the generator. Once the number of starts-up has been completed, the alarm relay operates and stays in this position until the supply voltage is disconnected. The alarm relays does not operate if the generator has started-up during the preceding cycles.</p> <p>By linking the terminals 6-7 (PTGA) the cycle starts by the time OFF.</p>
Leds indicadication	<p>Power on: Green</p> <p>Relay on: Red</p>
Repeating precision	$\pm 1\%$
Precision	$\pm 2\%$
Reset	By disconnecting the supply for longer than 60 ms.

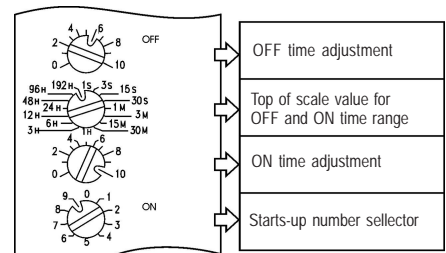
Reference	HOUSING		FUNCTION		OUTPUT		SUPPLY		RANGE	
	P	Plug-in	TG	Starting-up generators	A	SPDT	712 724	12 VDC 24 VDC	192	Selection by rotary switch
										0,1..1 S 6..60 M 0,3..3 S 18..180 M 1,5..15 S 0,6..6 H 3..30 S 2,4..24 H 6..60 S 4,8..48 H 18..180 S 9,6..96 H 1,5..15 M 19,2..192 H 3..30 M

To compose the reference, select one option of each column. Example: **PTGA 712 192**

Function diagram



Adjustment buttons



Output relays	PTGA	
	Resistive load	AC 10 A / 250 V
		DC 0,4 A / 200 V 10 A / 24 V
	Inductive load	AC 10 A / 250 V
		DC 0,4 A / 200 V 10 A / 24 V
	Mechanical life > 30 x 10 ⁶ 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 ⁴ MΩ	

Supply	DC	
	PTGA	
	Galvanic isolation	No
	Consumption	1,2 W
	Frequency	-
	Operating margins	± 10%
	Positive	Terminal 2
	Protected polarity	
	Yes	

Constructive and environmental data	PTGA	
	Voltage phase-neutral	300 V
	Overvoltage category	III
	Rated impulse voltage	4 kV
	Pollution degree	2
	Protection	IP 20 B
	Approximate weight	250 g
	Storage temperature	-50°C..+85°C
	Operating temperature	-20°C..+50°C
	Humidity	30..85% HR
	Housing	Cyclopol - Light grey
	Socket	Lexan - Light grey
	Leds cover	Lexan - Transparent
	Button, terminal block, clip	Technyl - Dark blue
	Pins of the socket	Latón niquelado
	Pins of the terminal block	-
	Approvals	Designed and manufactured under EEC stds. Electromagnetic compatibility, directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC. Plastics: UL 91 V0

Dimensions	PTGA	

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