## **POLISH PRODUCT**

## Timer CRT-V1 16 time functions, with time T1 and T2. Working as delta-star relay, cross relay and staircase timer.

## One model for many applications



Universal power supply in whole range
1 2 3 1 11 7
Power consumption [current] – power supply 24VAC
Power consumption [current] – power supply 230VAC
Power-up time [power supply 24VDC]
Power-up time [power supply 230VAC]
Switching delay 10ms
Reaction delay after switching on signal to START input
Reaction delay after switching off signal from START input
Idle time between switching from star to delta100ms
Output: 2 relays R1, R2 [2x16A 250VAC] working in the system:

when no power supply is present for Y function they are in open state

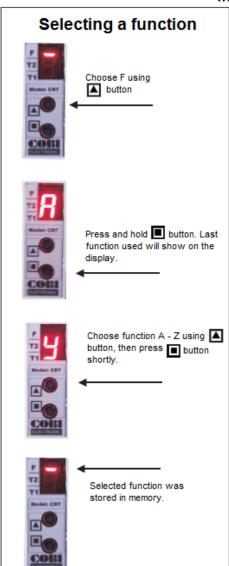
when power supply is present and function A to T is selected, they work as switching relay: R1 open / R2 closed

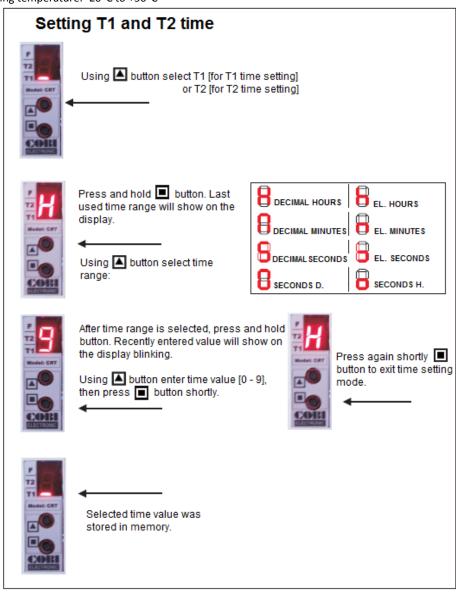
Time range: from 0.01s to 100h, settings accuracy and repeatability – 0.01s

Non-volatile EEPROM memory, data setting using two buttons Entered data and relay status visual presentation - LED display

Input/output galvanic insulation - 2.5kV, IP-20 protection level

Working temperature: -20°C to +50°C





CAUTION: CRT-V1 relay is set to function [A] by factory. T1 time value is set to 2 seconds.

During T1 time phase, [T1] mark is blinking

During T1 time phase, [T2] mark is blinking

Dot visible on the display indicates that relay is switched on

CAUTION: R1, R2 relays with no power supply, when Y function is selected are in open state. After switching on power supply and selecting function A to T, they will work as switching relay: R1 open / R2 closed. Delayed switching on Delayed switching on and off - 2 U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U S S **T1** R Delayed switching off - 1 Raising slope pulse U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U U S S Falling slope pulse Minimum switching on time - 1 U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay Minimum switching on time - 2 Delayed pulse U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U S \_\_\_\_\_\_T2 R Maximum switching on time Pulse triggered generator U - power supply, S - triggering signal, R - relay  $\mbox{\bf U}$  - power supply,  $\mbox{\bf S}$  - triggering signal,  $\mbox{\bf R}$  - relay U T2 T1 T2 T1 **T1** Rising slope triggering - 1 Pause triggered generator U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U U S S T2 T1 T2 T1 Raising slope delayed on and off Falling slope triggering - 1 U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U U S S RR Delayed switching on and off - 1 Delta - star relay U - power supply, S - triggering signal, R - relay U - power supply, S - triggering signal, R - relay U S S T1 + 100ms. T2 + 100ms. <u>R1</u>

R2

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