

- AC or DC over or under voltage monitor with window function
- 🔷 DPCO output max. 6A
- 3 measuring ranges 0.5 600V RMS
- level and hysteresis adjustments
- programmable latch/no latch alarm
- LED indicators for power supply, contact and reaction timer
- 45mm DIN rail mount housing



Function

Control relay active Control relay passive Contact closed Contact open

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TCV-W 230

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Threshold "Un"
Hysteresis
Monitored current
Latch



tr... Reaction timer T... LED indication reaction time

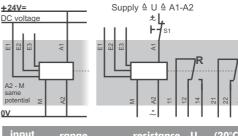
On application of the supply voltage with N.O. Mode selected, the output relay pulls in and the timing period **ts** starts.

Voltage monitor with no latch (auto reset) function At the end of ts when the measured voltage exceeds the window in either direction timing period tr starts. At the end of tr if the measurement still exceeds the set point the output relay changes over. The output relay resets immediately when the monitored voltage reaches the hysteresis set

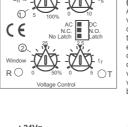
Voltage monitor with latch

value.

(manual reset) function At the end of ts when the measured voltage exceeds the window in either direction, timing period tr starts. At the end of tr if the measurement still exceeds the set point the output relay changes over and remains in this condition, even when the measured voltage reaches the hysteresis set value. An external reset (S1) must be operated to reset the relay.



input	range	resistance	U _{EMAX} (20°C)
E1-M	0,5 - 10V	3,9 kOhm	30V
E2-M	3 - 60V	68 kOhm	130V
E3-M	30 - 600V	820 kOhm	660V



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0,5-600V

DIN

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specification

supply voltage variation	nominal voltage +10% / -15%	
frequency range	48 - 63 Hz	
duty cycle	100%	
start surge delay	0 - 10s	
reaction time	0 - 5s	
reset time	< 100ms	
output relay specification	max. 6A 230V~	
Ue/le AC-15	120V/4A 240V/3A	
Ue/le DC-13	24V/2A	
expected life time	DPCO SPCO	
mechanical	2×10^6 resp. 1×10^7 operations	
electrical	1×10^5 resp. 1×10^5 operations	
screws	pozidrive 1	
screw tightening torque	0,60,8Nm	
operating conditions	-20 to +60 °C non condensing	
	* FN 60947-5-1 VDF 0435	

ordering information

TCV-W 230Vac 230V~ 2,5VA DPCO yes yes TCV-W 15Vac 115V~ 2,5VA DPCO yes yes	g types
	С
	С
TCV-W 24Vac 24V~ 2,5VA DPCO yes yes	С
TCV-W 24Vdc 24V= 2W DPCO no yes	С

* The measurement input is galvanically isolated from the power supply

