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# Monitoring relay- voltage monitoring 1-phase

Status: Available Data sheet created: 01.07.2025

Item Number: 2100600 - Serie: Veo - EAN: 9008662011731



~	Monitoring relays VEO series
~	Continuous voltage monitoring
~	Reliably detects mains fluctuations
~	Detects mains wipers / short time interruptions of at least 10ms
~	Prevents undefined states in switching and control systems
~	Generates reset pulse after power failure
~	1 changeover contact
~	Construction width 22.5 mm

# Description

Compact and reliable measurement of voltage, current, cosine phi, temperature or levels.

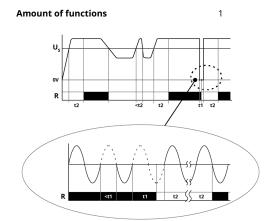
<b>General information</b>	
Short description	Voltage monitoring 1-ph, 230V, mains wipe detector, 1 changeover contact
Item Number	2100600
EAN	9008662011731
Main category	Monitoring Relays
Series	Veo
Туре	V2UF230V10
Design	Compact industrial design
Supply	230V AC
Dimensions	22.5 x 67 x 76 mm





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### **Functions and measurands**



#### Undervoltage monitoring (U)

If the measured voltage falls below the fixed threshold voltage Us, the output relay R switches into off-position. If the measured voltage exceeds the threshold Us, the set interval ON-Delay t2 begins. As soon as the interval t2 has expired, the output relay switches into on-position again. If the measured voltage falls below the threshold US during ONDelay, the elapsed time is ignored and the output relay remains in off-position.

#### Voltage interruptions (fast detection) (-)

If the supply fails and the measured voltage is interrupted longer than the set response time t1, the output relay R switches into off-position. If the device is getting supplied again, the set interval ON-Delay t2 begins. As soon as the interval t2 has expired, the output relay switches into on-position again. In case the supply fails during the interval t2, the elapsed time is ignored and the output relay remains in off-position.

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		C	ı u		돘	CO

Number Of Areas	2	
	Setting range	
Time ranges	Switch-on delay	0,5 10s
	Reaktionszeit Kurzzeitunterbrechung	10 40 ms

Indicators	
Supply/time lapse 1	Green LED U/t ON: Supply voltage applied
Supply/time lapse 2	Green LED U/t flashes: Indication of time lapse of switch-on delay
Relay state	Yellow LED R ON/OFF: position of the output relay

lousing material	PA 66, self-extinguishing plastic, class V-0	
Housing - protection degree	IP40	
Mounting	top hat rail TH 35 7,5-15 according to IEC 60715:2017 / EN 60715:2017	
Terminals/connections	Screw terminal	
Terminals - protection degree	IP20	
Mounting position	any	
Stripping length	8 mm	
Max. Tightening Torque	1 Nm	
	• flexible with wire end ferrule 0.5 2.5 mm² (20 AWG 13 AWG)	
	• flexible without ferrule 0.5 4 mm² (20 AWG 12 AWG)	





Supply circuit	
Terminals/connections	F-E
Supply voltage a.c.	230 V
Supply voltage tolerance a.c.	-20 +10%
Rated frequency [Hz]	a.c. 50 60 Hz
Rated consumption a.c.	typ. 0,35 W / 0,7 VA
Duty cycle	100%
Backup power time	≤ 45 ms
Drop-out voltage	≥ 150 V a.c.
Overvoltage category	III (IEC 60664-1)
Rated surge voltage	6 kV

Type         Relay           Contact 1         1 change over contact           Terminals 1         15-16-18           Maximum switching voltage         400 V a.c.           Minimum Switch Voltage/Current         12 V / 10 mA           Rated voltage         250 V (IEC 60947-1)           Rated current 1         AC-18 A / 250 V (IEC 60947-5-1)           Rated current 2         AC-15 1,5 A / 240 V (B300) (IEC 60947-5-1)           Rated current 3         DC-12 8 A / 24 V (IEC 60947-5-1)           Rated current 4         DC-13 0,1 A / 250 V (IEC 60947-5-1)           Contacts material         AgNi           Mechanical life         30 x 10° Switching cycles           Electrical life         100 x 10³ Switching cycles (AC-1)           Rated surge voltage         6 kV	Output curcuit	
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Overvoltage category III (IEC 60664-1)	Overvoltage category	III (IEC 60664-1)

Measuring circuit	
Measurand	Voltage - one phase
Measuring range	180 230 V a.c.
Terminals/connections	F-E
Overload capacity	see supply voltage tolerance
Frequency - sinusoidal	see rated frequency
Switching threshold minimum	165 V a.c. ± 15V
Hysteresis	typ. 6 V a.c.

Accuracy	
Adjustment accuracy	<5 % (from full scale)
Repetition accuracy	< 2,5 %
Temperature influence	< 0,05 % / °C





Ambient conditions and general specifications		
Ambient temperature IEC	-25 +60°C	
Storage temperature	-40 +70 °C	
Vibration resistance	2 13,2 Hz: 1 mm; 13,2 100 Hz: 7 m/s² (EN 60947-1)	
Shock resistance	150 m/s <sup>2</sup> 11 ms (EN 60947-1)	
Pollution degree	2, pollution level can be increased by installation in suitable enclosures (according to IEC 60664-1)	

Logistics	
Minimum Quantity	1
Tariff Number	85364900
EAN	9008662011731
Country of Origin	AT
Product Weight (g)	83.1

Available declarations / conformities	
EAC	✓
CE	Open document
UL	Open document
c(UL)	Open document
REACH	<u>Open document</u>
WEEE	<u>Open document</u>
TSCA	<u>Open document</u>
RoHs	<u>Open document</u>
CMRT	<u>Open document</u>

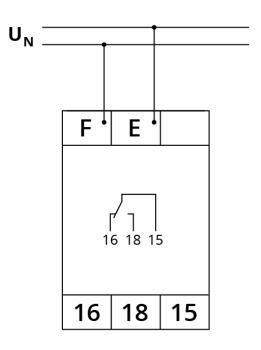
CAD Files	
STEP_V2_en.STEP	<u>Download file</u>

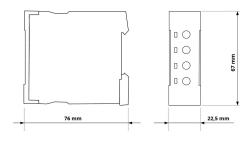




# Media & drawings







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Changes and errors excepted

