SIEMENS

Data sheet 3UG4631-2AW30

DIGITAL MONITORING RELAY VOLTAGE
MONITORING, 22.5MM FROM 0.1 TO 60V AC/DC
OVERSHOOT AND UNDERSHOOT AC/DC 24 TO
240V DC AND AC 50 TO 60 HZ SPIKE DELAY 0.1 TO
20S HYSTERESIS 0.1 TO 30V 1 CHANGEOVER
CONTACT W. OR W/O ERROR LOG SPRINGLOADED TYPE

Product function Voltage monitoring relay

Measuring circuit:			
Type of voltage for monitoring		AC/DC	
Number of poles for main current circuit		1	
Measurable line frequency	Hz	500 40	
Measurable voltage with AC	V	0.1 60	
Adjustable voltage range	V	0.1 60	
Adjustable response delay time			
 with lower or upper limit violation 	S	0.1 20	
Response time maximum	ms	450	
Relative metering precision	%	5	
Accuracy of digital display		+/-1 digit	
Relative temperature-related measurement deviation	%	0.1	
Relative repeat accuracy	%	1	

General technical data:				
Design of the display		LCD		
Product function				
 Voltage window recognition 1 phase 		Yes		
 Voltage window recognition 3 phase 		No		
 Voltage window recognition DC 		Yes		
 Overvoltage detection 1 phase 		Yes		
 Overvoltage detection 3 phase 		No		
Overvoltage detection DC		Yes		
 undervoltage detection 1 phase 		Yes		
 undervoltage detection 3 phases 		No		
 undervoltage detection DC 		Yes		
External reset		Yes		
Auto-reset		Yes		
Adjustable open/closed-circuit current principle		Yes		
Startup time after the control supply voltage has been applied	ms	1 000		

Type of voltage of the control supply voltage		AC/DC
Control supply voltage		
• with AC		
— at 50 Hz Rated value	V	24 240
— at 60 Hz Rated value	V	24 240
• for DC Rated value	V	24 240
Operating range factor control supply voltage rated		
value		
• with AC		
— at 50 Hz		0.85 1.1
— at 60 Hz		0.85 1.1
• for DC		0.85 1.1
Surge voltage resistance Rated value	kV	4
Active power consumption	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Vibration resistance acc. to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Shock resistance acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude at height above sea level	m	2 000
maximum		
maximum permissible voltage for safe isolation		
 between control and auxiliary circuit 	V	300
 between auxiliary and auxiliary circuit 	V	300
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	690
Ambient temperature		
during operation	°C	-25 +60
during storage	°C	-40 + 85
during transport	°C	-40 +85
Design of the electrical isolation		Safe isolation
Galvanic isolation		
between entrance and outlet		Yes
• between the outputs		Yes
between the voltage supply and other circuits		Yes
Mechanical service life (switching cycles) typical		10 000 000

Electrical endurance (switching cycles) at AC-15 at		100 000
230 V typical Operating frequency with 3RT2 contactor maximum	1/h	5 000
	.,	
Mechanical data:		
Width	mm	22.5
Height	mm	94
Depth	mm	91
mounting position		any
Required spacing for grounded parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing with side-by-side mounting		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing for live parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
Mounting type		snap-on mounting
Product function removable terminal for auxiliary and control circuit		Yes
Type of electrical connection		spring-loaded terminals
Type of connectable conductor cross-section		
• solid		2x (0.25 1.5 mm²)
● finely stranded		
— with core end processing		2 x (0.25 1.5 mm²)
without core end processing		2x (0.25 1.5 mm²)
• for AWG conductors		
— solid		2x (24 16)
— stranded		2x (24 16)
on an according to		(· ··· · · · · /
Outputs:		
Number of NO contacts delayed switching		0
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		1
Operating current at 17 V minimum	mA	5

Continuous current of the DIAZED fuse link of the	Α	4
output relay		
Thermal current of the switching element with	Α	5
contacts maximum		

Certificates/ approvals:

General Product Approval EMC Test Certificates









Special Test
Certificate

Type Test
Certificates/Test
Report

Shipping Approval

other







Declaration of Conformity

other

Further informatior

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

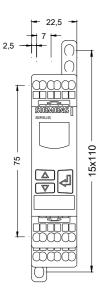
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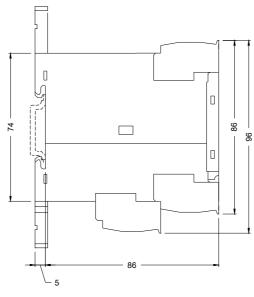
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46312AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG46312AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG46312AW30&lang=en





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