SIEMENS

Data sheet 3UG4633-2AL30



DIGITAL MONITORING RELAY VOLTAGE
MONITORING, 22.5MM FROM 17 TO 275V AC/DC
OVERSHOOT AND UNDERSHOOT INTERNAL
POWER SUPPLY DC AND AC 50 TO 60 HZ SPIKE
DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 150V 1
CHANGEOVER CONTACT SPRING-LOADED 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	40 500	
Measurable voltage with AC	V	17 275	
Adjustable voltage range	V	17 275	
Adjustable response delay time			
when starting	S	0.1 20	
 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:			

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

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 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	17 275
— at 60 Hz Rated value	٧	17 275
• for DC Rated value	V	17 275
Operating range factor control supply voltage rated		
value		
• with AC		
— at 50 Hz		1 1
— at 60 Hz		1 1
• for DC		11
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 maximum	m	2 000
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	8540

during transport	°C	8540
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 		No
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
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

• finely stranded

• for AWG conductors

— with core end processing

- without core end processing

2x (0.25 ... 1.5 mm²)

2 x (0.25 ... 1.5 mm²)

2x (0.25 ... 1.5 mm²)

— solid	2x (24 16)
— stranded	2x (24 16)

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 output relay	Α	4

Certificates/ approvals:

General Product Approval

EMC Test Certificates

Choolel









other

Type Test
Certificates/Test
Report

Special Test Certificate

Shipping Approval

GL®



other

Declaration of Conformity

GL

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

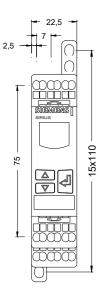
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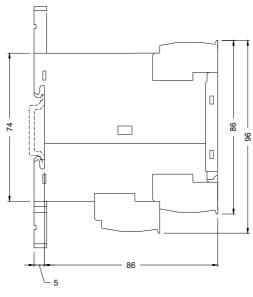
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46332AL30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG46332AL30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG46332AL30&lang=en





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