SIEMENS

Data sheet

3UG4501-1AW30



ANALOG MONITORING RELAY FILL LEVEL MONITORING RESISTANCE MONITORING FROM 2 TO 200 KOHM OVERSHOOT AND UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ 2-POINT OR 1-POINT CONTROL TRIPPING DELAYED 0.5 TO 10S 1 CHANGEOVER CONTACT SCREW TERMINAL REPLACEMENT PRODUCT F. 3UG3501

Figure similar

Product function		Monitoring relay for level monitoring
Measuring circuit:		
Adjustable response delay time		
 when starting 	S	0.5 10
 with lower or upper limit violation 	S	0.5 10
Adjustable response value impedance	kΩ	2 200
Measuring electrode current maximum	mA	1
Measuring electrode voltage maximum	V	15
Number of measuring circuits		1
Buffering time in the event of power failure minimum	ms	200
General technical data:		
Response time maximum	ms	300
Relative metering precision	%	20
Temperature drift per °C	%/°C	1
Relative repeat accuracy	%	1
Manufacturer's article number of the optional sensor		2-pole and 3-pole sensors 3UG3207
Wire length of sensor maximum	m	100

	Yes	
	Yes	
ms	500	
	AC/DC	
V	24 240	
V	24 240	
V	24 240	
	0.85 1.1	
	0.85 1.1	
	0.85 1.1	
kV	4	
W	2	
	IP20	
	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4	
	1 6 Hz: 15 mm, 6 500 Hz: 2g	
	sinusoidal half-wave 15g / 11 ms	
m	2 000	
	2 kV	
	2 kV	
_	1 kV	
	6 kV contact discharge / 8 kV air discharge	
-	10 V/m	
V	300	
	3	
V·A	2	
	V V V W m	

 during operation 	°C	-25 +60
• during storage	°C	-40 +80
• during transport	°C	-40 +80
Galvanic isolation		
 between entrance and outlet 		Yes
 between the outputs 		No

Mechanical data:		
Width	mm	22.5
Height	mm	92
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
downwards	mm	0
Mounting type		screw and snap-on mounting
Product function removable terminal for auxiliary and control circuit		Yes
Type of electrical connection		screw-type terminals
Type of connectable conductor cross-sections		
• solid		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
• finely stranded		
- with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
• at AWG conductors		
— solid		2x (20 14)
— stranded		2x (20 14)
Tightening torque with screw-type terminals	N∙m	0.8 1.2

Outputs:		
Number of NO contacts delayed switching		0
Number of NC contacts delayed switching	-	0
Number of CO contacts delayed switching		1
Ampacity of the output relay	-	
● at AC-15		
— at 250 V at 50/60 Hz	А	3
— at 400 V at 50/60 Hz	А	3
• at DC-13		
— at 24 V	А	1
— at 125 V	А	0.2
— at 250 V	А	0.1
Operating current at 17 V minimum	mA	5
Continuous current of the DIAZED fuse link of the output relay	A	4
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

Certificates/ approvals:

General Prod	uct Approval		EMC	Declaration of Conformity	Test Certificates
(\mathbf{m})		FAL		CE	Typprüfbescheinigu ng/Werkszeugnis

ccc









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Test Certificates	Shipping Approval	other	Railway	
spezielle Prüfbescheinigunge <u>n</u>	Lloyd's Register	Bestätigungen	Schwingen/Schocke <u>n</u>	

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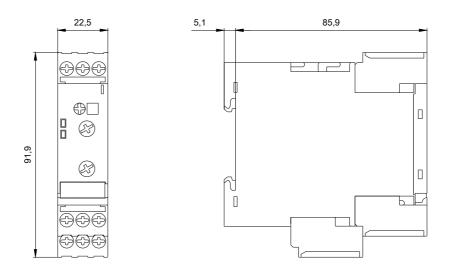
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4501-1AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4501-1AW30&lang=en



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