SIEMENS

Data sheet 3UG4501-1AW30



Analog monitoring relay Fill level monitoring Resistance monitoring from 2 to 200 kohm 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC 2-step or 1-step control Tripping delay 0.5 to 10 s 1 change-over contact screw terminal Successor product for 3UG3501

Figure similar

product brand name	SIRIUS	
product designation	Level monitoring relay with analog setting	
product type designation	3UG4	
manufacturer's article number of the optional sensor	2-pole and 3-pole sensors 3UG3207	
General technical data		
product function	Monitoring relay for level monitoring	
display version LED	Yes	
 Apparent power consumption at DC 		
— at 24 V maximum	2 V·A	
— at 240 V maximum	4 V·A	
 apparent power consumption at AC 		
— at 24 V maximum	2 V·A	
— at 240 V maximum	4 V·A	
insulation voltage		
 for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 	300 V	
degree of pollution	3	
type of voltage		
of the control supply voltage	AC/DC	
surge voltage resistance rated value	4 kV	
protection class IP	IP20	
shock resistance acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms	
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g	
mechanical service life (switching cycles) typical	10 000 000	
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000	
reference code acc. to IEC 81346-2	K	
relative repeat accuracy	1 %	
Substance Prohibitance (Date)	01.05.2012 00:00:00	
Product Function		
product function		
 outlet monitoring adjustable 	Yes	
 adjustable responsiveness 	Yes	
 inlet monitoring adjustable 	Yes	
external reset	Yes	
Control circuit/ Control		
control supply voltage at AC		

at 50 Hz rated value	24 240 V
at 60 Hz rated value	24 240 V
control supply voltage at DC	04 040 V
• rated value	24 240 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
Measuring circuit	
adjustable response delay time	
when starting	0.5 10 s
with lower or upper limit violation	0.5 10 s
buffering time in the event of power failure minimum	200 ms
physical measuring principle	conductive
Precision	
relative metering precision	20 %
temperature drift per °C	1 %/°C
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts	
 delayed switching 	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Outputs	
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
• at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the output relay	4 A
Electromagnetic compatibility	
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
galvanic isolation	
 between input and output 	Yes
between the outputs	No
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	

General Product Approval	EMC Declaration of Conformity Test Certificates			
ertificates/ approvals				
during transport	-40 +80 °C			
during storage	-40 +80 °C			
during operation	-25 +60 °C			
ambient temperature				
installation altitude at height above sea level maximum	2 000 m			
nbient conditions				
— at the side	0 mm			
— downwards	0 mm			
— upwards	0 mm			
— backwards	0 mm			
— forwards	0 mm			
for live parts				
— downwards	0 mm			
— at the side	0 mm			
— upwards	0 mm			
— backwards	0 mm			
forwards	0 mm			
for grounded parts	O IIIIII			
— at the side	0 mm 0 mm			
— upwards — downwards				
— packwards — upwards	0 mm 0 mm			
— lorwards — backwards	0 mm			
with side-by-side mounting — forwards	0 mm			
required spacing				
depth	91 mm			
width				
height	92 mm 22.5 mm			
fastening method	screw and snap-on mounting			
mounting position	any			
estallation/ mounting/ dimensions				
tightening torque with screw-type terminals	0.8 1.2 N·m			
• stranded	20 14			
• solid	20 14			
section				
AWG number as coded connectable conductor cross				
finely stranded with core end processing	0.5 2.5 mm ²			
• solid	0.5 4 mm²			
connectable conductor cross-section				
at AWG cables stranded	2x (20 14) 2x (20 14)			
at AWG cables solid	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)			
solidfinely stranded with core end processing	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			











Test Certificates Marine / Shipping	other	Railway
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Confirmation Vibration and Shock

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4501-1AW30

Cax online generator

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

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

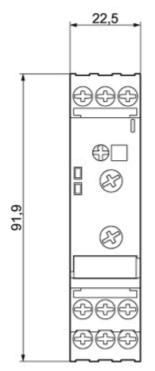
https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30

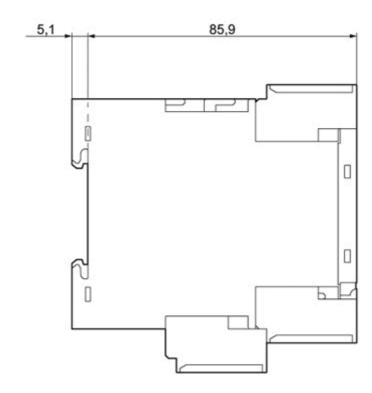
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4501-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30/manual





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