SIEMENS

product brand name

Data sheet 3UG4633-2AL30

SIRIUS



Digital monitoring relay Voltage monitoring, 22.5 mm from 17-275 V AC/DC Overshoot and undershoot self-supplied Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 150 V 1 changeover contact spring-type connection system spring-type connection system

product brand name	SIRIUS		
product designation	Voltage monitoring relay with digital setting		
product type designation	3UG4		
General technical data			
product function	Voltage monitoring relay		
design of the display	LCD		
insulation voltage for overvoltage category III according to IEC 60664			
 with degree of pollution 3 rated value 	690 V		
type of voltage			
for monitoring	AC/DC		
of the control supply voltage	AC/DC		
surge voltage resistance rated value	4 kV		
maximum permissible voltage for safe isolation			
 between auxiliary and auxiliary circuit 	300 V		
between control and auxiliary circuit	300 V		
protection class IP	IP20		
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms		
vibration resistance according 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 according to IEC 81346-2	K		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
 undervoltage detection 	Yes		
 overvoltage detection 	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		
 voltage window recognition 1 phase 	Yes		
 voltage window recognition 3 phase 	No		
 voltage window recognition DC 	Yes		
 adjustable open/closed-circuit current principle 	Yes		

• auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	17 275 V
at 60 Hz rated value	17 275 V
control supply voltage at DC	
rated value	17 275 V
operating range factor control supply voltage rated value at DC	
• initial value	1
full-scale value	1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	1
• full-scale value	1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	1
full-scale value	1
Measuring circuit	
measurable line frequency	500 40 Hz
measurable voltage at AC	275 17 V
measurable voltage at DC	17 275 V
adjustable response delay time	0.4 00 -
when starting	0.1 20 s
with lower or upper limit violation	0.1 20 s
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	0.1 %
Precision	F 0/
relative metering precision	5 %
Auxiliary circuit	•
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1 5 000 1/b
operating frequency with 3RT2 contactor maximum Main circuit	5 000 1/h
	1
number of poles for main current circuit	1
operational current at 17 V minimum continuous current of the DIAZED fuse link of the	5 mA 4 A
output relay	*^
Electromagnetic compatibility	
conducted interference	214/
due to burst according to IEC 61000-4-4 due to conductor earth surge according to IEC	2 kV 2 kV
due to conductor-earth surge according to IEC 61000-4-5 due to conductor conductor surge according to IEC.	1 kV
• due to conductor-conductor surge according to IEC 61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	Protective separation
galvanic isolation	
between input and output	Yes
between the outputs	Yes
between the voltage supply and other circuits	No
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	2x (0.25 1.5 mm²)

General Product Approval		EMC	Declaration of Conformity
ertificates/ approvals			
during transport	8540 °C		
during storage	8540 °C		
during operation	-25 +60 °C		
ambient temperature			
nstallation altitude at height above sea level maximum	2 000 m		
mbient conditions			
— at the side	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		
— upwards — downwards	0 mm 0 mm		
	0 mm 0 mm		
— torwards — backwards			
with side-by-side mountingforwards	0 mm		
required spacing			
depth	91 mm		
width	22.5 mm		
neight	94 mm		
astening method	snap-on mounting		
mounting position	any an mounting		
stallation/ mounting/ dimensions	2004		
• stranded	24 16		
• solid	24 16		
AWG number as coded connectable conductor cross section			
finely stranded without core end processing	0.25 1.5 mm²		
 finely stranded with core end processing 	0.25 1.5 mm²		
• solid	0.25 1.5 mm²		
connectable conductor cross-section			
at AWG cables stranded	2x (24 16)		
 at AWG cables solid 	2x (24 16)		
finely stranded without core end processing	2x (0.25 1.5 mm²)		
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)		

Confirmation











Test Certificates	Marine / Shipping	other	Railway
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Type Test Certificates/Test Report

Special Test Certificate





<u>Confirmation</u> <u>Vibra</u>

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=3UG4633-2AL30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4633-2AL30

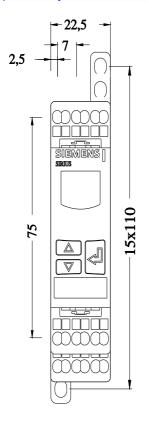
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

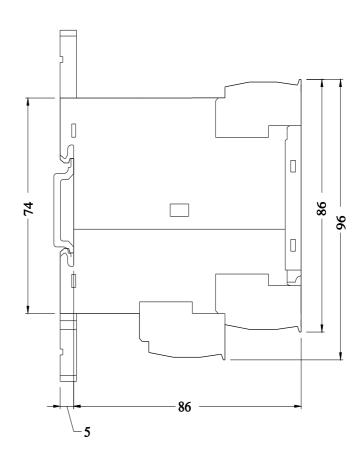
https://support.industry.siemens.com/cs/ww/en/ps/3UG4633-2AL30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3UG4633-2AL30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4633-2AL30/manual





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