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 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			
 external reset 	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	0.400		
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	E O		
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 operating frequency with 3RT2 contactor maximum	1 5 000 1/h		
Main circuit	3 000 1/II		
	1		
number of poles for main current circuit	1 5 mA		
operational current at 17 V minimum continuous current of the DIAZED fuse link of the	5 mA 4 A		
output relay	7/		
Electromagnetic compatibility			
conducted interference			
 due to burst according to IEC 61000-4-4 	2 kV		
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV		
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV		
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)		

 finely stranded with core end processing 	2 x (0.25 1.5 mm²)		
 finely stranded without core end processing 	2x (0.25 1.5 mm²)		
at AWG cables solid	2x (24 16)		
 at AWG cables stranded 	2x (24 16)		
connectable conductor cross-section			
• solid	0.25 1.5 mm ²		
finely stranded with core end processing	0.25 1.5 mm²		
finely stranded without core end processing	0.25 1.5 mm²		
AWG number as coded connectable conductor cross section	_		
• solid	24 16		
• stranded	24 16		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	94 mm		
width			
depth	91 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
for live parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	8540 °C		
during transport	8540 °C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity
			Comorning

Confirmation











Test Certificates Marine / Shipping other Railway

Type Test Certificates/Test Report

Special Test Certificate





<u>Confirmation</u> <u>Vibration and Shock</u>

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

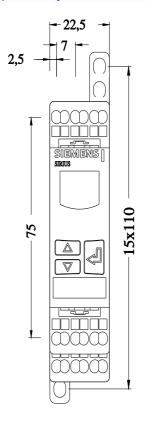
 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

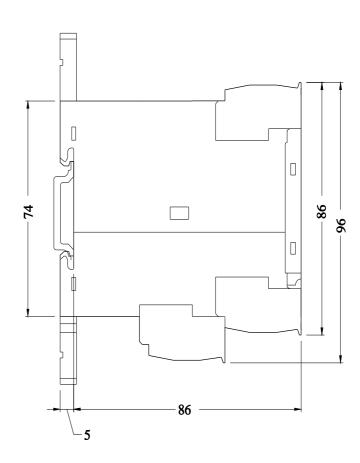
https://support.industry.siemens.com/cs/ww/en/ps/3UG4633-2AL30

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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