SIEMENS

product brand name

Data sheet 3UG4632-1AW30

SIRIUS



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 V AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 300 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3532-1AL20, 3UG3532-1AG20

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		
thermal current of the switching element with contacts maximum	5 A		
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		

	V		
adjustable open/closed-circuit current principle	Yes		
external reset	Yes		
• auto-RESET	Yes		
Control circuit/ Control			
control supply voltage at AC	04 0401/		
at 50 Hz rated value	24 240 V		
at 60 Hz rated value	24 240 V		
control supply voltage at DC	04 04014		
• 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			
measurable line frequency	40 500 Hz		
measurable voltage at AC	600 10 V		
measurable voltage at DC	10 600 V		
adjustable response delay time			
with lower or upper limit violation	0.1 20 s		
accuracy of digital display	+/-1 digit		
relative temperature-related measurement deviation	0.1 %		
Precision			
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		
operating frequency with 3RT2 contactor maximum	5 000 1/h		
Main circuit			
number of poles for main current circuit	1		
operational current at 17 V minimum	5 mA		
continuous current of the DIAZED fuse link of the	4 A		
output relay			
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	Yes		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection	screw-type terminals		

General Product Approval		EMC	Conformity
		EMC	Declaration of
Certificates/ approvals			
during transport	-40 +85 °C		
during storage	-40 +85 °C		
during operation	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	2 000 m		
Ambient 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			
— at the side	0 mm		
— downwards	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		
with side-by-side mounting			
required spacing	• · · · · · · · · · · · · · · · · · · ·		
depth	91 mm		
height width	22.5 mm		
fastening method	snap-on mounting 92 mm		
mounting position	any		
Installation/ mounting/ dimensions	anu		
tightening torque with screw-type terminals	1.2 0.8 N·m		
stranded tightening targue with percey type terminals.	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)		
at AWG cables solid	2x (20 14)	1.0 111112)	
finely stranded with core end processing	1x (0.5 2.5 mm2), 2x (0.5		
• solid	1x (0.5 4 mm2), 2x (0.5	2.5 mm2)	

Confirmation











Test Certificates Marine / Shipping other Railway

Special Test Certificate

Type Test Certificates/Test Report





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=3UG4632-1AW30

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4632-1AW30}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4632-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30/manual

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