SIEMENS

Data sheet

3UG4832-1AA40



Digital monitoring relay Voltage monitoring, 22.5 mm for IO-Link 10...600 V AC/DC Overvoltage and undervoltage Hysteresis 0.1 to 300 V ON-delay time Tripping delay time 1 change-over contact, screw terminal

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 2 rated value 	690 V
degree of pollution	2
type of voltage	
• for monitoring	AC/DC
 of the control supply voltage 	DC
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 between control and auxiliary circuit 	690 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 (operating cycles) typical	10 000 001
electrical endurance (operating 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	К
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

• ovternal resot	Voc
external reset	Yes
• auto-RESET	Yes
Control circuit/ Control	
control supply voltage at DC	0.11
rated value	24 V
operating range factor control supply voltage rated value at DC	
 initial value 	0.75
• full-scale value	1.25
Measuring circuit	
measurable line frequency	500 40 Hz
measurable voltage at AC	10 600 V
measurable voltage at DC	10 600 V
adjustable response delay time	
when starting	0 999.9 s
 with lower or upper limit violation 	0 999.9 s
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	0.1 %
Precision	
relative metering precision	5 %
Communication/ Protocol	
protocol is supported IO-Link protocol	Yes
IO-Link transfer rate	COM2 (38,4 kBaud)
point-to-point cycle time between master and IO-Link device minimum	10 ms
type of voltage supply via input/output link master	Yes
data volume	
 of the address range of the inputs with cyclical transfer total 	4 byte
 of the address range of the outputs with cyclical transfer total 	2 byte
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
ampacity of the semiconductor output in SIO mode	200 mA
operational current at 17 V minimum	10 mA
continuous current of the DIAZED fuse link of the output relay	4 A
Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV
 due to burst according to IEC 01000-4-4 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 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
type of connectable conductor cross-sections	
• solid	1x (0.5 4 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)

 upwards downwards at the side for grounded parts 		0 mm 0 mm 0 mm 0 mm	1		
— downwards — at the side		0 mm 0 mm	1		
— at the side		0 mm	1		
		0 mm			
— forwards					
— backwards		0 mm	1		
— upwards		0 mm	1		
— at the side		0 mm	ı		
— downwards		0 mm	ı		
• for live parts					
— forwards		0 mm	ı		
— backwards		0 mm	ı		
— upwards		0 mm	ı		
— at the side		0 mm	ı		
Ambient conditions					
installation altitude at height above sea level maxin	mum	2 000) m		
ambient temperature					
 during operation 		-25 +60 °C			
during storage			-40 °C		
during transport		85	-40 °C		
Certificates/ approvals					
General Product Approval					EMC
Confirmation	Manufacturer De	eclara-	\sim		^
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				СПС	Ś
ccc			UL		RCM
Declaration of Conformity	Test Certificate	es		Marine / Shipping	g other
	Type Test Cert ates/Test Rep		Special Test Certifice ate	C- And a state of the state of	Confirmation
		<u></u>	are		
EG-Konf.				Devolution	
Railway					

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3UG4832-1AA40

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3UG4832-1AA40$

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

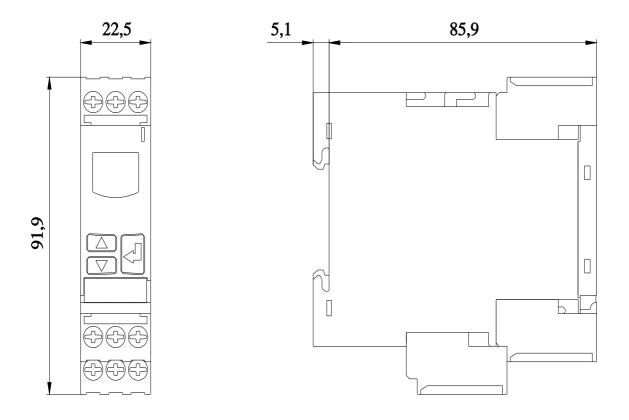
https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-1AA40

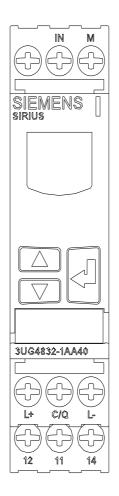
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

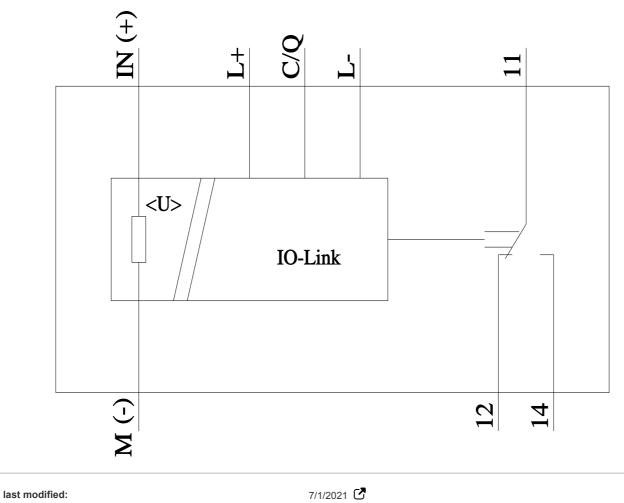
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4832-1AA40&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-1AA40/manual







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