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
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	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Dicyclohexylphthalat (DCHP) - 84-61-7
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 DC	
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	1.20
measurable line frequency	500 40 Hz
measurable voltage at AC	10 600 V
measurable voltage at AC	10 600 V
adjustable response delay time	10 000 V
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	10 ms
device minimum	
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	2 byte
total	
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	4
number of poles for main current circuit	1 200 mA
ampacity of the semiconductor output in SIO mode	
operational current at 17 V minimum continuous current of the DIAZED fuse link of the output	10 mA 4 A
relay	70
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 voltage supply and other circuits 	Yes
Connections/ Terminals	
product component removable terminal for auxiliary and	Yes
type of electrical connection	screw-type terminals
type of electrical connection	screw-type terminals
	screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2)

General Product Approval		EMC
pprovals Certificates		
during transport	8540 °C	
during storage	8540 °C	
during operation	-25 +60 °C	
ambient temperature		
installation 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		
— 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	
width	22.5 mm	
height	92 mm	
fastening method	snap-on mounting	
mounting position	any	
estallation/ mounting/ dimensions	1.2 0.0 W III	
tightening torque with screw-type terminals	1.2 0.8 N·m	
solid stranded	20 14 20 14	
section	20 44	
finely stranded with core end processing AWG number as coded connectable conductor cross	0.5 2.5 11111	
	0.5 4 mm²	
solid	0.5 4 mm²	
• for AWG cables stranded connectable conductor cross-section	2x (20 14)	
• for AWC cables solid	2x (20 14)	

Confirmation



Manufacturer Declaration







Declaration of Conformity

Test Certificates

Marine / Shipping

other

UK CA



Type Test Certificates/Test Report

Special Test Certificate



Confirmation

Railway

Vibration and Shock

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

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

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

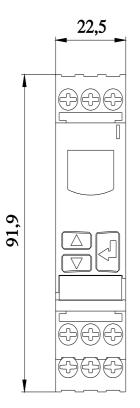
https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-1AA40

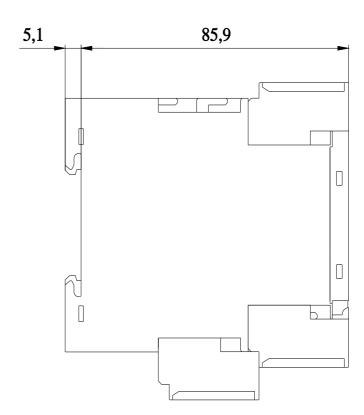
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

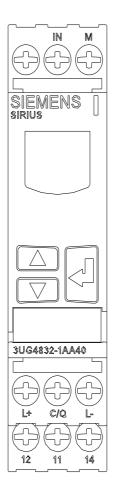
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4832-1AA40&lang=en

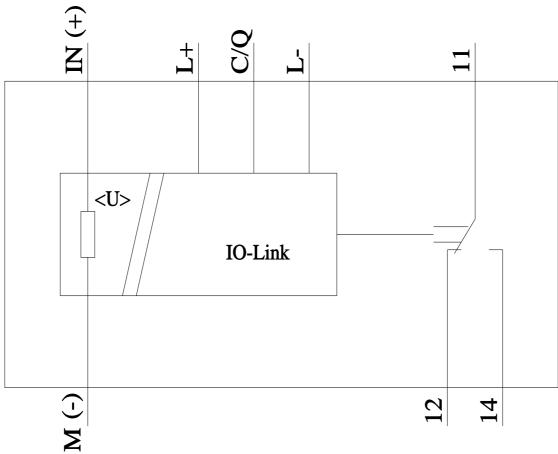
Characteristic: Derating

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









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