SIEMENS

Product data sheet 3UG4511-1AN20



ANALOG MONITORING RELAY PHASE SEQUENCE MONITORING 3X 160 TO 260V AC 50 TO 60 HZ 1 CHANGEOVER CONTACT SCREW TERMINAL REPLACEMENT PRODUCT FOR 3UG3511-1AQ50 OR 3UG3511-1AV50

Product function		Phase monitoring relay
Measuring circuit:		
Type of voltage / for monitoring		AC
Number of poles / for main current circuit		3
Measurable voltage		
• for AC	V	160 260

General technical details:		
Type of display / LED		Yes
Product function		
undervoltage recognition		No
overvoltage recognition		No
phase sequence recognition		Yes
phase disturbance recognition		No
asymmetry recognition		No
 overvoltage recognition of 3 phases 		No
 undervoltage recognition of 3 phases 		No
• tension window recognition of 3 phases		No
• self-reset		Yes
open-circuit or closed-circuit current principle		No
Starting time / after the control supply voltage has been applied	ms	200

Response time / maximum	ms	450
Type of voltage / of the controlled supply voltage		AC
Control supply voltage		
• at 50 Hz / at AC		
• rated value	V	160 260
• at 60 Hz / at AC		
• rated value	V	160 260
Operating range factor control supply voltage rated value		
• at 50 Hz		
• for AC		11
• at 60 Hz		
• for AC		11
Impulse voltage resistance / rated value	kV	6
Recorded real power	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Resistance against vibration / according to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Resistance against shock / according to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude / at a height over sea level / maximum	m	2,000
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3 / rated value	V	690
Degree of pollution		3
Ambient temperature		
during operating	°C	-25 +60
during storage	°C	-40 + 85
during transport	°C	-40 + 85
Galvanic isolation		
between entrance and outlet		Yes
• between the outputs		Yes
 between the voltage supply and other circuits 		Yes

Mechanical design:		
Width	mm	22.5

Height	mm	83
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Type of mounting		snap-on mounting
Product function / removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection		screw-type terminals
Type of the connectable conductor cross-section		
• solid		1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
finely stranded		
with wire end processing		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
• for AWG conductors		
• solid		2x (20 14)
• stranded		2x (20 14)
Tightening torque		
with screw-type terminals	N⋅m	0.8 1.2
Outputs:		
Number of NO contacts / delayed switching		0

Outputs:	
Number of NO contacts / delayed switching	0
Number of NC contacts / delayed switching	0
Number of change-over switches / delayed switching	1
Current carrying capacity / of output relay	

• at AC-15		
• at 250 V / at 50/60 Hz	Α	3
• at 400 V / at 50/60 Hz	Α	3
• at DC-13		
• at 24 V	Α	1
• at 125 V	Α	0.2
• at 250 V	Α	0.1
Thermal current / of the contact-affected switching element / maximum	А	5
Operating current / at 17 V / minimum	mA	5
Continuous current / of the DIAZED fuse link of the output relay	Α	4
Mechanical operating cycles as operating time / typical		10,000,000
Electrical operating cycles as operating time / at AC-15 / at 230 V / typical		100,000
Operating cycles / with 3RT2 contactor / maximum	1/h	5,000

Certificates/approvals:

General Product Approval







EMC

Special Test Certificate

Test Certificates

Shipping Approval







Lloyd's Register Declaration of Conformity

other

other

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator:

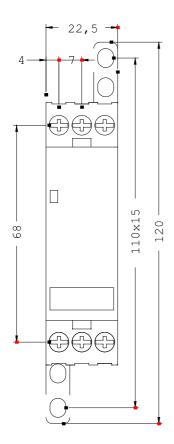
http://www.siemens.com/cax

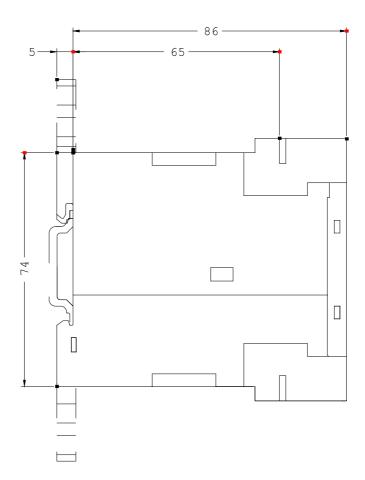
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3UG4511-1AN20/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4511-1AN20





last change: Feb 18, 2013