SIEMENS

Data sheet 3UG4512-1AR20



Analog monitoring relay Phase failure and sequence 3 x 160...690 V 50...60 Hz AC 1 change-over contact screw terminal

Figure similar

product brand nameSIRIUSproduct designationNetwork monitoring relay with analog settingdesign of the product2 functionsproduct type designation3UG4

product type designation	3064
General technical data	
product function	Phase monitoring relay
display version LED	Yes
insulation voltage for overvoltage category III according to IEC 60664	
 with degree of pollution 3 rated value 	690 V
degree of pollution	3
type of voltage	
 for monitoring 	AC
 of the control supply voltage 	AC
surge voltage resistance rated value	6 kV
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	10 000 000
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
Product Function	

relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
Product Function	
product function	
 undervoltage detection 	No
 overvoltage detection 	No
 phase sequence recognition 	Yes
 phase failure detection 	Yes
 asymmetry detection 	No
 overvoltage detection 3 phase 	No
 undervoltage detection 3 phases 	No
 voltage window recognition 3 phase 	No
 adjustable open/closed-circuit current principle 	No
• auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
 at 50 Hz rated value 	160 690 V

10011	400 0001/
• at 60 Hz rated value	160 690 V
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 voltage at AC	160 690 V
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	3
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
● at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	5 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 due to conductor-earth surge according to IEC	2 kV
61000-4-5	
 due to conductor-conductor surge according to IEC 	1 kV
61000-4-5	40.1%
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	
galvanic isolation	V
between input and output	Yes
between the outputs between the veltage cumply and other circuits.	Yes
between the voltage supply and other circuits	Yes
Connections/ Terminals	Vac
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)
at AWG cables solid	2x (20 14)
 at AWG cables stranded 	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
AWG number as coded connectable conductor cross	
section • solid	20 14
stranded	20 14
tightening torque with screw-type terminals	20 14 0.8 1.2 N·m
Installation/ mounting/ dimensions	0.0 1.2 IV III
	anv
mounting position fastening method	any snap-on mounting
height	83 mm
3	

width	22.5 mm		
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		
— downwards	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	-40 +85 °C		
 during transport 	-40 +85 °C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

Confirmation











Conformity

Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

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=3UG4512-1AR20

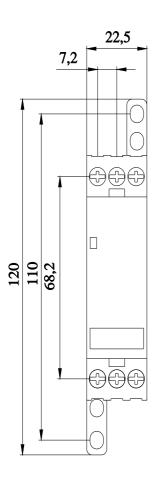
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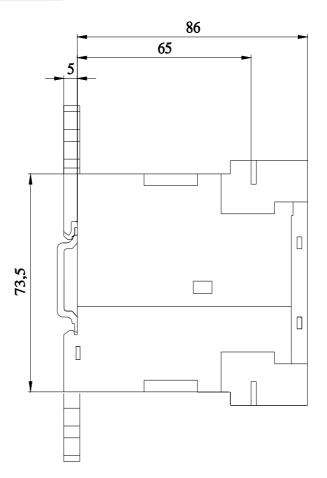
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4512-1AR20}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4512-1AR20

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

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3UG4512-1AR20/manual





12/21/2020 🖸 last modified: