SIEMENS

Data sheet

3UG4617-1CR20



Digital monitoring relay 3-phase supply voltage Autom. phase sequence correction Phase failure 3 x 160 to 690 V 50 to 60 Hz AC Undervoltage and overvoltage 160-690 V Hysteresis 1-20 V OFF delay 0-20 s Asymmetry 0-20% 1 CO for phase correction 1 CO for line supply faults screw terminal

Figure sin	nilar
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product brand name	SIRIUS
product designation	Network monitoring relay with digital setting
design of the product	5 functions
product type designation	3UG4
General technical data	
product function	Phase monitoring relay
display version LED	No
design of the display	LCD
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 acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance acc. 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 acc. to IEC 81346-2	К
relative repeat accuracy	1 %
Product Function	
product function	
 undervoltage detection 	Yes
 overvoltage detection 	Yes
 phase sequence recognition 	Yes
 phase failure detection 	Yes
 asymmetry detection 	Yes
 overvoltage detection 3 phase 	Yes
 undervoltage detection 3 phases 	Yes
 voltage window recognition 3 phase 	Yes
 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
• 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	
adjustable response delay time	
 with lower or upper limit violation 	0.1 20 s
accuracy of digital display	+/-1 digit
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	2
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	3
Outputs	
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	4 A
output relay	
Electromagnetic compatibility	
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
galvanic isolation	
 between input and output 	Yes
 between the outputs 	Yes
 between the voltage supply and other circuits 	Yes
Connections/ Terminals	
product function 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	
connectable conductor cross-section finely stranded with core end processing	0.5 2.5 mm ²	
 AWG number as coded connectable conductor cross section solid 	20 14	
 AWG number as coded connectable conductor cross section stranded 	20 14	
 tightening torque with screw-type terminals 	0.8 1.2 N·m	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on mounting	
height	92 mm	
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	
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ambient temperature during operation	-25 +60 °C	
ambient temperature during storage	-40 +85 °C	
ambient temperature during transport	-40 +85 °C	
Certificates/ approvals		
General Product Approval EMC	Declaration of Conformity	Test Certificates
	Miscellaneous	<u>Special Test</u> <u>Certificate</u>
	EG-Konf.	
Test Certificates Marine / Shipping	other Railway	
Type Test	Confirmation Vibration and Shock	
Certificates/Test Report		
LRS EWALCONO		

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=3UG4617-1CR20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4617-1CR20

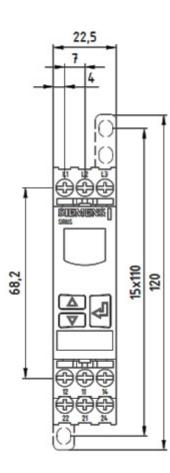
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

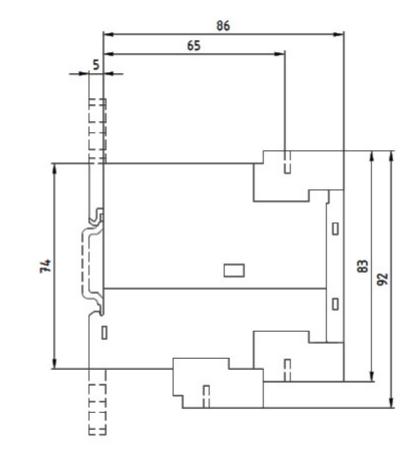
https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-1CR20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4617-1CR20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-1CR20/manual





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