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 similar

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	K			
relative repeat accuracy	1 %			
Substance Prohibitance (Date)	01.05.2012 00:00:00			
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	160 600 \
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
	J 000 1/11
Main circuit	2
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 output relay	4 A
Electromagnetic compatibility	
conducted interference	
due to burst acc. to IEC 61000-4-4	2 kV
	2 kV
due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC	2 kV 1 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	I NV
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
•	Yes
between the voltage supply and other circuits Connectional Terminals	100
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)
 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 mm²					
AWG number as coded connectable conductor cross							
section	00	4.4					
• solid		20 14					
• stranded	_	20 14					
tightening torque with screw-type terminals	0.8 1.2 N·m						
nstallation/ mounting/ dimensions							
mounting position	any						
fastening method	snap	snap-on mounting					
height	92 m	m					
width	22.5	22.5 mm					
depth	91 m	m					
required spacing							
with side-by-side mounting							
— forwards	0 mn	0 mm					
— backwards	0 mn	0 mm					
— upwards	0 mn	0 mm					
— downwards	0 mm						
— at the side	0 mn	0 mm					
 for grounded parts 							
— forwards	0 mm						
— backwards	0 mm						
— upwards	0 mm						
— at the side	0 mn	0 mm					
— downwards	0 mn	0 mm					
for live parts							
— forwards	0 mn	0 mm					
— backwards	0 mn	0 mm					
— upwards	0 mn	0 mm					
— downwards	0 mn	0 mm					
— at the side	0 mn	0 mm					
Ambient conditions							
installation altitude at height above sea level maximum	2 00	2 000 m					
ambient temperature							
during operation	-25 .	-25 +60 °C					
during storage	-40 .	-40 +85 °C					
during transport	-40 .	-40 +85 °C					
Certificates/ approvals							
General Product Approval		EMC	Declaration of Conformity	Test Certificates			











Special Test Certific-<u>ate</u>

Test Certificates

Marine / Shipping

other

Railway

Type Test Certificates/Test Report





Confirmation

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=3UG4617-1CR20

Cax online generator

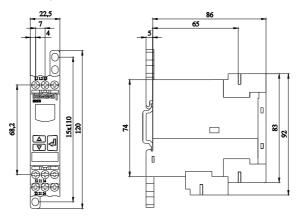
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4617-1CR20}$

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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