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 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			
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			
measurable voltage at AC	160 690 V		
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			
for auxiliary contacts	2		
delayed switching	2		
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 24 V	0.2 A		
• at 125 V	0.1 A		
operational current at 17 V minimum	5 mA		
continuous current of the DIAZED fuse link of the output	5 IIIA 4 A		
relay	7.0		
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	1 kV		
61000-4-5			
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			
between input and output	Yes		
between the outputs	Yes		
between the voltage supply and other circuits	Yes		
Connections/ Terminals			
product component removable terminal for auxiliary and	Yes		
control circuit			
type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 4.0 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)		
• for AWG cables solid	2x (20 14)		
for 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		
, III			

section			
• solid	20 14		
stranded	20 14		
ightening torque with screw-type terminals	0.8 1.2 N·m		
stallation/ 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		
nbient conditions			
nstallation 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		
ertificates/ approvals			
General Product Approval		EMC	Declaration of Conformity











Declaration of Conformity

Test Certificates

Marine / Shipping

other

CE

Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

Vibration and Shock

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=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,...)

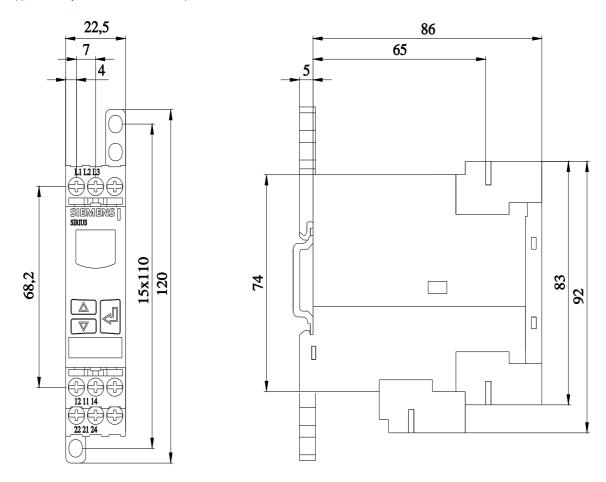
https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-1CR20

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



last modified: 3/22/2023 🖸