SIEMENS

Data sheet

3UG4617-2CR20



!!! product phase-out !!! The preferred successor type is 3UG5618-2CR20 phase sequence phase failure 3x160-690 V spring digital monitoring relay for 3-phase supply voltage automatic 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 power system faults spring-loaded connection system

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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 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	К			
relative repeat accuracy	1 %			
Substance Prohibitance (Date)	05/01/2012			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8			
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	160 600 \/		
at 50 Hz rated value at 60 Hz rated value	160 690 V 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	1		
initial value full coole value	1		
• full-scale value Measuring circuit	1		
measurable voltage at AC	160 690 V		
adjustable response delay time	100 030 V		
with lower or upper limit violation	0.1 20 s		
response time maximum	450 ms		
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 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 conductor-earth surge according to IEC 61000-4-5 	2 kV		
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV		
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 control circuit	Yes		
type of electrical connection	spring-loaded terminals		
type of connectable conductor cross-sections			
• solid	2x (0.25 1.5 mm²)		
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)		
finely stranded without core end processing	2x (0.25 1.5 mm²)		
 for AWG cables solid 	2x (24 16)		

• for AWG cables	stranded		2x (2/	4 16)			
for AWG cables stranded connectable conductor cross-section			27 (22	10)			
 solid 	101 01033-3601011		0.25	1.5 mm²			
	with core and processing			1.5 mm²			
	with core end processing without core end processing	~		1.5 mm²			
		•	0.25.	1.5 11111			
section	led connectable conducto	or cross					
• solid			24	16			
stranded			24				
Installation/ mounting	/ dimensions		27	10			
	/ dimensions		0.01/				
mounting position			any				
fastening method			snap-on mounting				
height			94 mm				
width			22.5 r				
depth			91 mr	n			
required spacing							
 with side-by-sid 	le mounting						
— forwards			0 mm				
- backward	S		0 mm				
— upwards			0 mm				
- downward	ds		0 mm				
— at the side			0 mm				
 for grounded particular 	arts						
— forwards			0 mm				
— backwards			0 mm	0 mm			
— upwards			0 mm				
- at the side	e		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							
			0.000				
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				
Approvals Certificates	3						
General Product Ap	proval						
CC UK <u>Confirmati</u>		<u>n</u>	(m)	ŝ	r N r		
					(VL)	EAC	
EG-Konf.					$\mathbf{v}_{\mathbf{u}}$	LIIL	
EMV		Test Certificate	es		Marine / Shipping		
Δ	KC	Special Test Ce	ertific-	Type Test Certific-	8 8	11 1	
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					DNV		
<u> </u>							
RCM					DNV	LRS	
RCM					UNV	0.5	
	Delluser	Faultan			Unv	0.5	
RCM	Railway	Environment			LINV	LKS	
other			Con-		Unv	LKS	
	Railway Special Test Certific- ate	Environment Environmental firmations			Unv	LK3	
other	Special Test Certific-	Environmental			Unv	LK3	

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Further information

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=3UG4617-2CR20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4617-2CR20

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

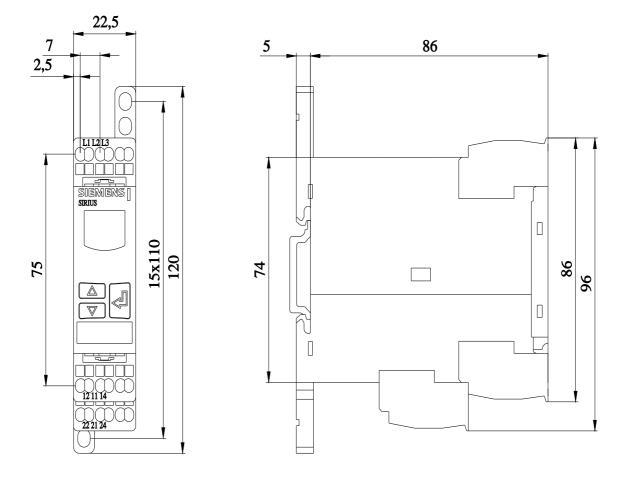
https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-2CR20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4617-2CR20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-2CR20/manual



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