SIEMENS

Data sheet

3UG4615-2CR20



III product phase-out III The preferred successor type is 3UG5616-2CR20 phase sequence phase failure 3x160-690 V spring digital monitoring relay for 3-phase supply voltage connectable phase sequence phase failure 3 x 160 to 690 V 50 to 60 Hz AC undervoltage and overvoltage 160-690 V hysteresis 1-20 V 0-20 s each for Umin and Umax 1 CO for Umin 1 CO for Umax spring-loaded connection system

Figuresin	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 according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 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 	Yes
● 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	a. 4 aa
with lower or upper limit violation	0.1 20 s
response time maximum	450 ms
accuracy of digital display	+/-1 digit
Precision	E 0/
relative metering precision Auxiliary circuit	5 %
	0
number of NC contacts delayed switching	0
number of NO contacts delayed switching	U Contraction of the second se
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	4 A
relay	
Electromagnetic compatibility	
conducted interference	2147
due to burst according to IEC 61000-4-4	2 kV
due to conductor-earth surge according to IEC 61000-4-5	2 kV 1 kV
 due to conductor-conductor surge according to IEC 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 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 (24 16)

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0.25 1.5 mm² 24 16 24 16		
24 16 24 16		
24 16		
24 16		
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22.5 mm		
91 mm		
0 mm		
0 mm		
0 mm		
2 000 m		
-25 +60 °C		
-40 +85 °C		
-40 +85 °C		
Confirmation	Ē	
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	UL	P11P
Marine / Shipping		other
<u>nınc-</u>	Llovd's	Confirmation
DNV	Kegister	
DNV	LRS	
= <u>3UG4615-2CR20</u>		
	22.5 mm 91 mm 0	22.5 mm 91 mm 0

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4615-2CR20

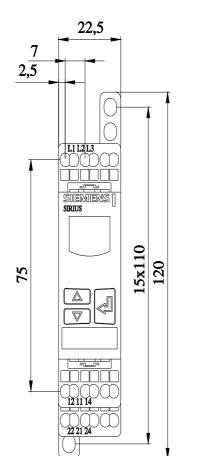
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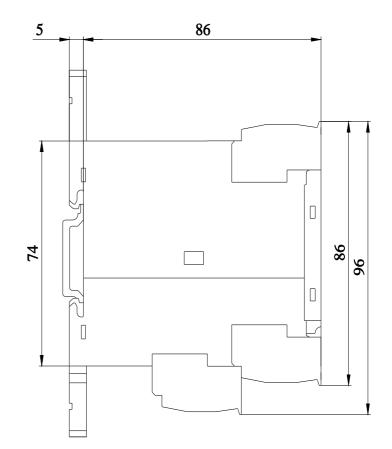
https://support.industry.siemens.com/cs/ww/en/ps/3UG4615-2CR20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4615-2CR20&lang=en

Characteristic: Derating

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