SIEMENS

Data sheet 3UG4615-2CR20



!!! product phase-out !!! 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

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
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	
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 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	1 kV
61000-4-5	40 V/m
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	Yes
 between input and output between the outputs 	Yes
between the outputs between the voltage supply and other circuits	Yes
Connections/ Terminals	100
product component removable terminal for auxiliary and	Yes
control circuit	enring loaded terminals
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	2v (0.25 1.5 mm²)
Solid Inclustranded with core and processing	2x (0.25 1.5 mm²)
finely stranded with core end processing finely stranded without core end processing	2 x (0.25 1.5 mm²)
finely stranded without core end processing for AWG cables solid	2x (0.25 1.5 mm²)
for AWC cables stranded	2x (24 16)
for AWG cables stranded	2x (24 16)

— at the side grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards — at the side	0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards — backwards — upwards — downwards — at the side — at the side	0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards — backwards — upwards — upwards — downwards	0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards — backwards — upwards	0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards — backwards	0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts — forwards	0 mm 0 mm 0 mm 0 mm 0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards live parts	0 mm 0 mm 0 mm 0 mm	
grounded parts — forwards — backwards — upwards — at the side — downwards	0 mm 0 mm 0 mm 0 mm	
grounded parts — forwards — backwards — upwards — at the side	0 mm 0 mm 0 mm 0 mm	
grounded parts — forwards — backwards — upwards	0 mm 0 mm 0 mm	
grounded parts — forwards — backwards	0 mm 0 mm	
grounded parts — forwards	0 mm	
grounded parts	· · · · · · ·	
	0 mm	
— downwards	0 mm	
— upwards	0 mm	
— backwards	0 mm	
— forwards	0 mm	
h side-by-side mounting		
spacing		
	91 mm	
	22.5 mm	
	94 mm	
method	snap-on mounting	
position	any	
n/ mounting/ dimensions		
anded	24 16	
id	24 16	
nber as coded connectable conductor cross		
	0.25 1.5 mm ²	
id	0.25 1.5 mm ²	
ble conductor cross-section id ely stranded with core end processing ely stranded without core end processing mber as coded connectable conductor cross	0.25 1.5 mm ² 0.25 1.5 mm ² 0.25 1.5 mm ²	



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report

Special Test Certificate



Confirmation

Railway

Vibration and Shock

Further information

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=3UG4615-2CR20

Cax online generator

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

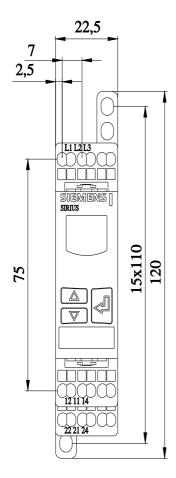
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

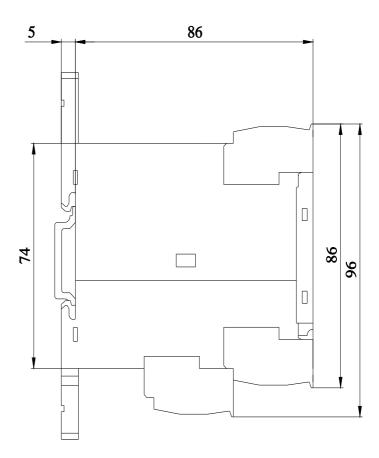
https://support.industry.siemens.com/cs/ww/en/ps/3UG4615-2CR20

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

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





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