SIEMENS

Data sheet

3UG4615-2CR20



Digital monitoring relay 3-phase supply voltage Phase sequence can be activated 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-type 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 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	К		
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 	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	
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
Main circuit	
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	4 A
output relay	
Electromagnetic compatibility	
conducted interference	
 due to burst acc. to IEC 61000-4-4 	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	40.\//m
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	Vac
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 mm ²)
finely stranded with core end processing	2 x (0.25 1.5 mm ²)
finely stranded without core end processing	2x (0.25 1.5 mm ²)
at AWG cables solid	2x (24 16)
at AWG cables stranded	2x (24 16)
connectable conductor cross-section	

• solid			0.25 1.5 mm²			
 finely stranded 	with core end processin	g	0.25 1.5 mm ²			
	without core end proces		0.25 1.5 mm²			
	ded connectable condu	uctor cross				
section						
 solid 			24 16			
 stranded 			24 16			
Installation/ mounting	g/ dimensions					
mounting position			any			
fastening method			snap-on mounting			
height			94 mm			
width			22.5 mm			
depth			91 mm			
required spacing						
 with side-by-side 	le mounting					
— forwards			0 mm			
— backwards	8		0 mm			
— upwards			0 mm			
- downward			0 mm			
— at the side ● for grounded pa			0 mm			
 for grounded pa — forwards 	ai 13		0 mm			
— forwards — backwards			0 mm 0 mm			
— upwards	5		0 mm			
— at the side			0 mm			
— downward			0 mm			
 for live parts 	10		0 mm			
— forwards			0 mm			
— backwards	3		0 mm			
— upwards			0 mm			
– downward	S		0 mm			
— at the side)		0 mm			
Ambient conditions						
installation altitude at	height above sea level i	maximum	2 000 m			
ambient temperature	-					
 during operation 	n		-25 +60 °C			
during storage		-40 +85 °C				
 during transpor 	t		-40 +85 °C			
Certificates/ approval	S					
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General Product Ap	oproval		EMC	Conformity	Test Certificates	
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ccc	UL		RCM	EG-Konf.		
Test Certificates	Marine / Shipping		other	Railway		
Special Test Certific-	Herek	-STRETTING ARCS.	Confirmation	Vibration and Shock		
ate	Register					
	LRS	DINGLOBIA				
Further information						
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https://www.siemens.com/ic10 Industry Mall (Online ordering system)						
Industry Mall (Online ordering system)						

Cax online generator

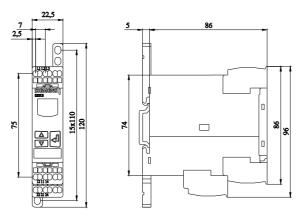
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4615-2CR20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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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