SIEMENS

Data sheet

3UG4614-1BR20



Digital monitoring relay Asymmetry 0-20% Phase sequence can be activated Phase failure 3 x 160 to 690 V 50 to 60 Hz AC Undervoltage 160-690 V Hysteresis 1-20 V ON and OFF delay 0-20 s 2 change-over contacts screw terminal Successor product for 3UG3012-1A...

product brand name	SIRIUS			
product designation	Network monitoring relay with digital setting			
design of the product	4 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 	No			
 phase sequence recognition 	Yes			
 phase failure detection 	Yes			
 asymmetry detection 	Yes			
 overvoltage detection 3 phase 	No			
 undervoltage detection 3 phases 	Yes			
 voltage window recognition 3 phase 	No			
 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				
 when starting 	0.1 20 s			
 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	1A			
• 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	10.1//m			
field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge			
Galvanic isolation	6 kV contact discharge / 8 kV air discharge			
galvanic isolation	Vec			
between input and output	Yes			
between the outputsbetween the voltage supply and other circuits	Yes			
• between the voltage supply and other circuits Connections/ Terminals				
	Yes			
product component removable terminal for auxiliary and control circuit	100			
type of electrical connection	screw-type terminals			
type of connectable conductor cross-sections				
• solid	1x (0.5 4 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)			
 at AWG cables solid 	2x (20 14)			
 at 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 mm ²				
AWG number as coded connectable conductor cross section						
• solid	20	14				
stranded	20	14				
tightening torque with screw-type terminals	0.8	1.2 N·m				
Installation/ mounting/ dimensions						
mounting position	any					
fastening method	snap-	on mounting				
height	92 m	m				
width	22.5 1	mm				
depth	91 m	m				
required spacing						
with side-by-side mounting						
— forwards	0 mm	1				
— backwards	0 mm	1				
— upwards	0 mm	I				
— downwards	0 mm	I Contraction of the second				
— 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	0 11111	'				
— forwards	0 mm					
— backwards	0 mm					
— upwards	0 mm					
— downwards	0 mm					
— at the side	0 mm					
	0 mm					
Ambient conditions			_	_		
installation altitude at height above sea level maximum	2 000	2 000 m				
ambient temperature	25	100 %0				
during operation		. +60 °C				
• during storage		. +85 °C				
during transport	-40	. +85 °C				
Certificates/ approvals						
General Product Approval		EMC	Declaration of Conformity	Test Certificates		
	[RCM	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report		
Test Certificates Marine / Shipping		other	Railway			
Special Test Certific- ate Lovds URS		<u>Confirmation</u>	Vibration and Shock			
Further information Information- and Downloadcenter (Catalogs, Brochures,	\ \					

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=3UG4614-1BR20 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4614-1BR20

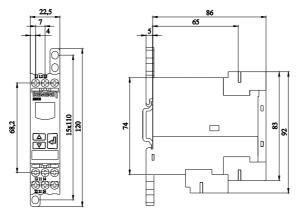
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-1BR20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4614-1BR20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-1BR20/manual



last modified:

12/19/2020 🖸