SIEMENS

3UG4614-2BR20 **Data sheet**



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 spring-type connection system

Figure similar

product brand name product designation design of the product product type designation **SIRIUS**

Network monitoring relay with digital setting

4 functions 3UG4

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product function display version LED design of the display insulation voltage for overvoltage category III

according to IEC 60664 • with degree of pollution 3 rated value

degree of pollution

type of voltage

for monitoring

· of the control supply voltage

surge voltage resistance rated value

protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6

mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at

230 V typical

thermal current of the switching element with

contacts maximum

reference code according to IEC 81346-2

relative repeat accuracy **Substance Prohibitance (Date)** Phase monitoring relay

LCD

690 V 3

AC AC

> 6 kV IP20

sinusoidal half-wave 15g / 11 ms 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g

10 000 000 100 000

5 A

1 %

05/01/2012

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

• adjustable open/closed-circuit current principle

• auto-RESET

Control circuit/ Control

• undervoltage detection 3 phases

control supply voltage at AC

No

Yes

Yes

at 50 Hz rated value	160 690 V			
at 60 Hz rated value	160 690 V			
operating range factor control supply voltage rated	100 000 V			
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				
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			
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 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	Yes			
and control circuit				
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)			
 at AWG cables solid 	2x (24 16)			
at AWG cables stranded	2x (24 16)			
connectable conductor cross-section				
• solid	0.25 1.5 mm ²			
finely stranded with core end processing	0.25 1.5 mm ²			
 finely stranded without core end processing 	0.25 1.5 mm²			

AWG number as coded connectable conductor cross section solid 24 ... 16 stranded 24 ... 16 Installation/ mounting/ 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 mounting - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts - forwards 0 mm 0 mm - backwards - upwards 0 mm — at the side 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 installation altitude at height above sea level maximum 2 000 m ambient temperature -25 ... +60 °C · during operation · during storage -40 ... +85 °C

General Product Approval

Confirmation

Certificates/ approvals

during transport







-40 ... +85 °C



EMC



Declaration of

Conformity

Declaration of Conformity

Test Certificates

Marine / Shipping

other

UK CA Type Test Certificates/Test Report

Special Test Certificate





Confirmation

Railway

Vibration and Shock

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=3UG4614-2BR20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4614-2BR20

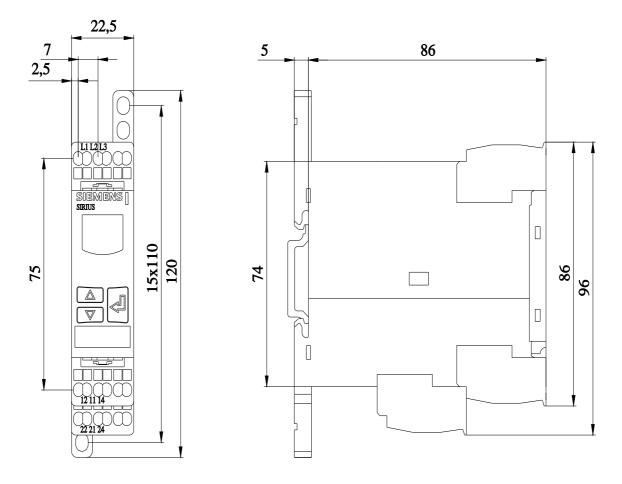
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-2BR20

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

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-2BR20/manual



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