



Figure similar

Digital monitoring relay 3-phase supply voltage Autom. phase sequence correction Phase failure 3 x 160 to 690 V 50 to 60 Hz AC Undervoltage and overvoltage 160-690 V Hysteresis 1-20 V OFF delay 0-20 s Asymmetry 0-20% 1 CO for phase correction 1 CO for line supply faults spring-type connection system

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

SIRIUS
Network monitoring relay with digital setting
5 functions
3UG4

General technical data

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 (operating cycles) typical
electrical endurance (operating 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
No
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
K
1 %
05/01/2012

Product Function

product function
 • undervoltage detection
 • overvoltage detection
 • phase sequence recognition
 • phase failure detection
 • asymmetry detection
 • overvoltage detection 3 phase
 • undervoltage detection 3 phases
 • voltage window recognition 3 phase
 • adjustable open/closed-circuit current principle
 • auto-RESET

Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
No
Yes

Control circuit/ Control

control supply voltage at AC

<ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value 	160 ... 690 V 160 ... 690 V
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> • initial value • full-scale value 	1 1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value • full-scale value 	1 1
Measuring circuit	
measurable voltage at AC	160 ... 690 V
adjustable response delay time	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz 	3 A 3 A
ampacity of the output relay at DC-13	
<ul style="list-style-type: none"> • at 24 V • at 125 V • at 250 V 	1 A 0.2 A 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	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 	2 kV 2 kV 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	
<ul style="list-style-type: none"> • between input and output • between the outputs • between the voltage supply and other circuits 	Yes Yes 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	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded 	2x (0.25 ... 1.5 mm ²) 2 x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (24 ... 16) 2x (24 ... 16)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing 	0.25 ... 1.5 mm ² 0.25 ... 1.5 mm ² 0.25 ... 1.5 mm ²
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
— backwards	0 mm
— 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

Ambient conditions

installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



[Confirmation](#)

Railway

[Vibration and Shock](#)

Further information

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=3UG4617-2CR20>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4617-2CR20>

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

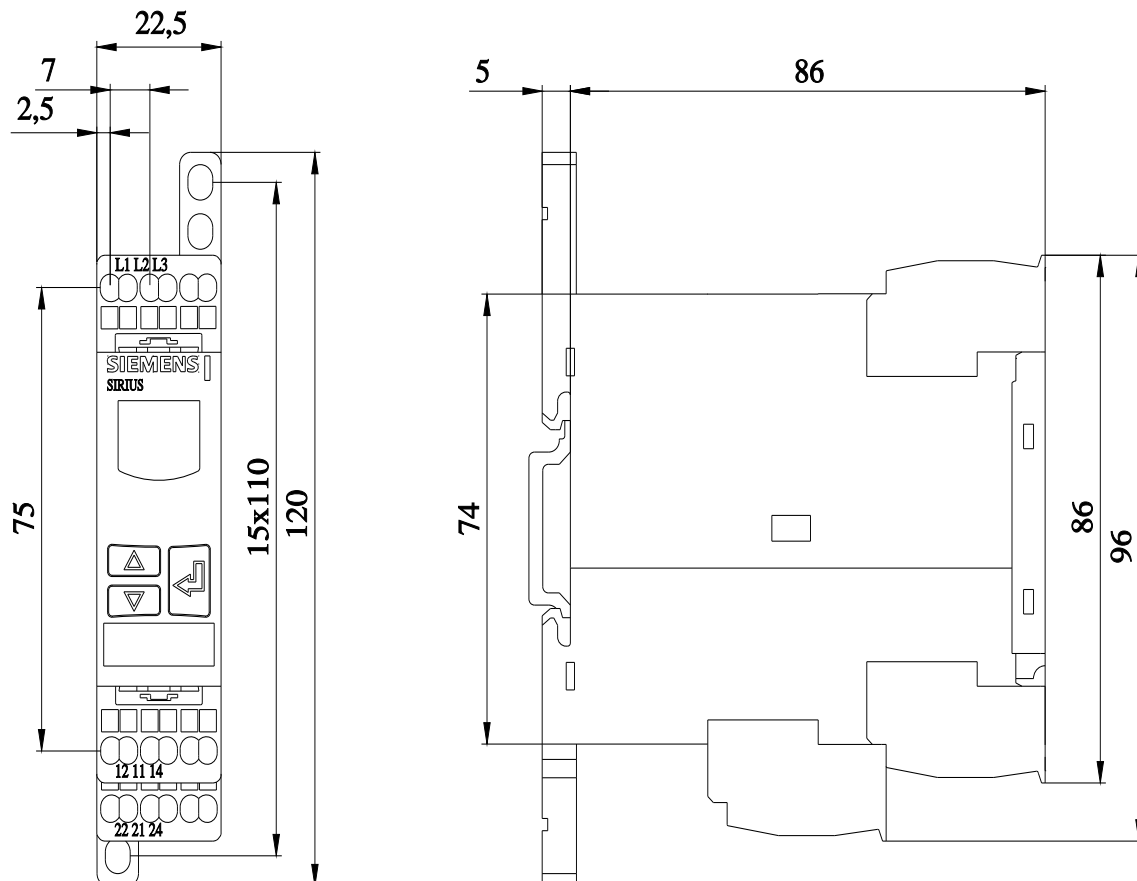
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-2CR20>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4617-2CR20&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4617-2CR20/manual>



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