SIEMENS

Data sheet 3UG4641-2CS20

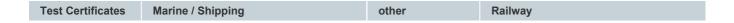


Digital monitoring relay cos phi and current monitoring from 90-690 V AC 0vershoot and undershoot self-supplied 50 to 60 Hz AC Noise pulses delay 0.1 to 20 s Hysteresis for (I) 0.1 to 2 A 2 change-over contacts with or without fault buffer spring-type connection system

SIRIUS
Cos phi monitoring relay with digital setting
3UG4
Active power monitoring relay
LCD
690 V
3
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 %
Yes
Yes
Yes
Yes
AC
90 690 V
90 690 V
50 60 Hz
1
1

value at AC at 60 Hz	
initial value	1
full-scale value	1
Supply voltage	
supply voltage frequency rated value	60 50 Hz
Measuring circuit	33 33 TIE
	AC
type of current for monitoring measurable current	0.2 10 A
adjustable current response value current	0.2 10 A
1	0.2 10 A
• 1	0.2 10 A 0.2 10 A
adjustable response delay time	0.2 10 A
	0 99 s
when starting with lower or upper limit violation	0.1 20 s
with lower or upper limit violation	
adjustable switching hysteresis for measured current value	100 2 000 mA
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/-1 digit
Precision	
relative metering precision	10 %
Auxiliary circuit	
	600 00
control supply voltage rated value	690 90
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	2
 operating voltage rated value 	90 690 V
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 61000-4-5	1 kV
field beard interference and to IEC 04000 4.2	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-3	10 V/m 6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2	
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation	
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation	6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs	6 kV contact discharge / 8 kV air discharge Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation a between input and output between the outputs between the voltage supply and other circuits	6 kV contact discharge / 8 kV air discharge Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation a between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and	6 kV contact discharge / 8 kV air discharge Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation a between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and	6 kV contact discharge / 8 kV air discharge Yes Yes Yes

• 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 mm²	
 connectable conductor cross-section finely stranded with core end processing 	0.25 1.5 mm ²	
 connectable conductor cross-section finely stranded without core end processing 	0.25 1.5 mm²	
 AWG number as coded connectable conductor cross section solid 	24 16	
 AWG number as coded connectable conductor cross section stranded 	24 16	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on mounting	
height	103 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	
ambient temperature during operation ambient temperature during storage	-40 +85 °C	
ambient temperature during storage ambient temperature during transport	-40 +85 °C	
Certificates/ approvals		
General Product Approval EMC	Declaration of Conformity	Test Certificates
General Product Approval	Declaration of Comornity	rest Certificates
(C)	Miscellaneous	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>





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=3UG4641-2CS20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4641-2CS20

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

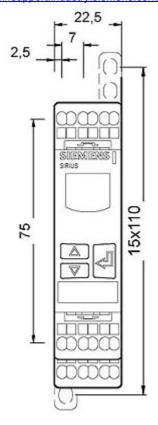
https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-2CS20

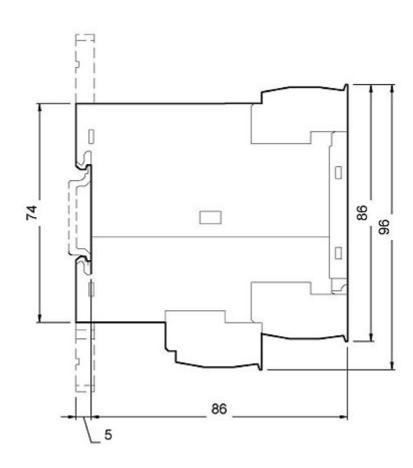
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4641-2CS20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-2CS20/manual





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