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

product brand name	SIRIUS		
product designation	Cos phi monitoring relay with digital setting		
product type designation	3UG4		
General technical data			
product function	Active power monitoring relay		
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		
surge voltage resistance rated value	6 kV		
protection class IP	IP20		
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms		
vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g		
mechanical service life (operating cycles) typical	10 000 000		
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000		
thermal current of the switching element with contacts maximum	5 A		
reference code according to IEC 81346-2	K		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
 overcurrent detection 1 phase 	Yes		
 undercurrent detection 1 phase 	Yes		
 adjustable open/closed-circuit current principle 	Yes		
 external reset 	Yes		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz rated value	90 690 V		
at 60 Hz rated value	90 690 V		
supply voltage frequency for auxiliary and control circuit rated value	50 60 Hz		
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			

• full-scale value	1
Supply voltage	
supply voltage frequency rated value	60 50 Hz
Measuring circuit	**************************************
type of current for monitoring	AC
measurable current	0.2 10 A
adjustable current response value current	<u> </u>
• 1	0.2 10 A
• 2	0.2 10 A
adjustable response delay time	5.E 1071
when starting	0 99 s
with lower or upper limit violation	0.1 20 s
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	, ruigit
	10 %
relative metering precision Auxiliary circuit	10 /0
	600 00
control supply voltage rated value	690 90
number of NC contacts delayed switching	0
number of NO contacts delayed switching	2
number of CO contacts delayed switching	
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
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 output relay	4 A
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	1 kV
61000-4-5	
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 and	Yes
control circuit	anring leaded terminals
type of connectable conductor cross sections	spring-loaded terminals
type of connectable conductor cross-sections	2v (0.25 1.5 mm²)
solid finely stranded with core and processing	2x (0.25 1.5 mm²)
finely stranded with core end processing finely stranded without core and processing	2 x (0.25 1.5 mm²)
finely stranded without core end processing for AWC cables solid	2x (0.25 1.5 mm²)
for AWG cables stranded	2x (24 16)
for AWG cables stranded connectable conductor cross-section	2x (24 16)
connectable conductor cross-section	0.25 1.5 mm²
• solid	0.25 1.5 mm²

 finely stranded with core end processing 	0.25 1.5 mm ²		
finely stranded without core end processing	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	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		
during storage	-40 +85 °C		
 during transport 	-40 +85 °C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

(W)

Confirmation



EAC





Declaration of Conformity

Test Certificates

Marine / Shipping

other

UK CA Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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,...)

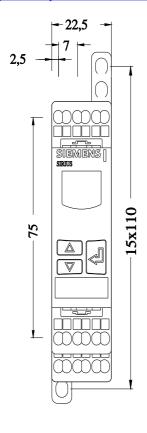
https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-2CS20

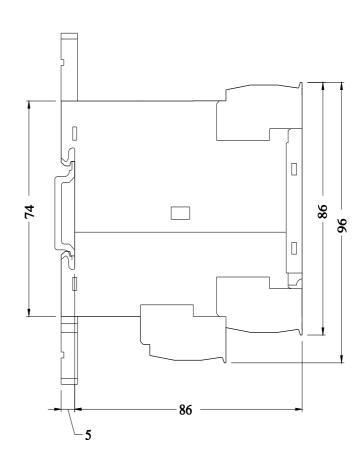
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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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