SIEMENS

Data sheet 3UG4641-1CS20



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 screw terminal Successor product for 3UG3014

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	
• initial value	1

Supply voltage frequency stated value **Research general Supply Courses for monitoring supply voltage requency stated value **1	• full-scale value	1
supply voltage frequency rated value Open of current for monitoring measurable current 1	Supply voltage	
Measurable current for monitoring		60 50 Hz
yps of current for monitoring		
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connectable conductor cross-section ● solid 0.5 4 mm²		
• solid 0.5 4 mm²		2x (20 14)
• finely stranded with core end processing 0.5 2.5 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	1.2 0.8 N·m		
stallation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	102 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		
mbient 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		
ertificates/ approvals			
General Product Approval		EMC	Declaration of Conformity











Declaration of Conformity

Test Certificates

Marine / Shipping

other

Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

Vibration and Shock

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=3UG4641-1CS20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4641-1CS20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-1CS20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4641-1CS20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4641-1CS20/manual

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