SIEMENS

product brand name

Data sheet 3UG4641-1CS20

SIRIUS



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

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		
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 III 23 TIE
	AC
type of current for monitoring measurable current	
	0.2 10 A
adjustable current response value current	0.0 40.4
• 1	0.2 10 A
• 2	0.2 10 A
adjustable response delay time	000
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	
relative metering precision	10 %
<u> </u>	10 /0
Auxiliary circuit	000 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-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. 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 function removable terminal for auxiliary and control circuit	Yes
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
••	

General Product Approval	EMC		Declaration of Conformity	Test Certificate
ertificates/ approvals				
 ambient temperature during transport 	t	-40	+85 °C	
 ambient temperature during storage 		-40	+85 °C	
ambient temperature during operation	n	-25	+60 °C	
installation altitude at height above sea leve	el maximum	2 000	m	
mbient conditions				
— at the side		0 mm		
— downwards		0 mm		
— upwards		0 mm		
— backwards		0 mm		
— forwards		0 mm		
for live parts				
— downwards		0 mm		
— at the side		0 mm		
— upwards		0 mm		
— backwards		0 mm		
— forwards		0 mm		
 for grounded parts 				
— at the side		0 mm		
— downwards		0 mm		
— upwards		0 mm		
— backwards		0 mm		
— forwards		0 mm		
with side-by-side mounting				
required spacing				
depth		91 mr	n	
width		22.5 r	nm	
height		102 m	nm	
fastening method		snap-	on mounting	
mounting position		any		
stallation/ mounting/ dimensions				
• tightening torque with screw-type terr	minals	1.2	0.8 N·m	
AWG number as coded connectable cross section stranded	conductor	20	14	
AWG number as coded connectable cross section solid	conductor	20	14	
connectable conductor cross-section with core end processing			2.5 mm ²	
connectable conductor cross-section	solid		4 mm²	
at AWG cables stranded) 14)	
at AWG cables solid	····9) 14)	
 finely stranded with core end process 	sina	1x (()	5 2.5 mm2), 2x (0.5 1.5 mm2)	









<u>Certificate</u>

Marine / Shipping **Test Certificates** other Railway

Type Test Certificates/Test Report





Confirmation

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=3UG4641-1CS20

Cax online generator

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

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

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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