SIEMENS

Data sheet

3UG4641-1CS20



DIGITAL MONITORING RELAY COS-PHI A. CURRENT MONITORING FROM 90 TO 690V AC OVERSHOOT AND UNDERSHOOT INTERNAL POWER SUPPLY AC 50 TO 60 HZ SPIKE DELAY 0.1 TO 20S HYSTERESIS W. (I) 0.1 TO 2A 2 CHANGEOVER CONTACTS W. OR W/O ERROR LOG SCREW TERMINAL REPLACEMENT PRODUCT F. 3UG3014

Product function	_	Active power monitoring relay
Measuring circuit:		
Number of poles for main current circuit		2
Phase number	-	1
Adaptable response value phase displacement angle	0	0.1 0.99
Type of current for monitoring		AC
Measurable current	А	0.2 10
Adjustable pick-up value current	-	
• 1	А	0.2 10
• 2	А	0.2 10
Adjustable response delay time		
 when starting 	s	0 99
 with lower or upper limit violation 	s	0.1 20
Adjustable switching hysteresis for measured current	mA	100 2 000
value		
Buffering time in the event of power failure minimum	ms	10
Operating voltage rated value	V	90 690
Relative metering precision	%	10
Accuracy of digital display		+/-1 digit

Relative repeat accuracy	%	1
General technical data:		
Design of the display		LCD
Product function	-	
 Overcurrent detection 1 phase 		Yes
 undercurrent detection 1 phase 		Yes
External reset		Yes
 Adjustable open/closed-circuit current principle 		Yes
Starting time after the control supply voltage has	ms	1 000
been applied		
Response time maximum	s	0.3
Type of voltage of the control supply voltage	_	AC
Control supply voltage		
• at AC		
— at 50 Hz rated value	V	90 690
— at 60 Hz rated value	V	90 690
Operating range factor control supply voltage rated value	-	
● at AC		
— at 50 Hz		11
— at 60 Hz		11
Surge voltage resistance rated value	kV	6
Consumed active power	W	2
Protection class IP		IP20
Electromagnetic compatibility	-	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Vibration resistance acc. to IEC 60068-2-6	_	1 6 Hz: 15 mm, 6 500 Hz: 2g
Shock resistance acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude at height above sea level maximum	m	2 000
Conducted interference due to burst acc. to IEC 61000-4-4	-	2 kV
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	-	2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	-	1 kV
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Insulation voltage for overvoltage category III	V	690
according to IEC 60664 with degree of pollution 3		
rated value		
Degree of pollution		3
Ambient temperature	*0	
during operation	°C	-25 +60
• during storage	°C	-40 +85

during transport	°C	-40 +85
Galvanic isolation		
 between entrance and outlet 		Yes
 between the outputs 		Yes
 between the voltage supply and other circuits 		Yes
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at		100 000
230 V typical		
Operating frequency with 3RT2 contactor maximum	1/h	5 000

Mechanical data:		
Width	mm	22.5
Height	mm	102
Depth	mm	91
Mounting position		any
Required spacing for grounded parts		
forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
downwards	mm	0
Required spacing with side-by-side mounting	-	
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
 downwards 	mm	0
Required spacing for live parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
 downwards 	mm	0
Mounting type		snap-on mounting
Product function removable terminal for auxiliary and control circuit		Yes
Type of electrical connection		screw-type terminals
Type of connectable conductor cross-sections		
• solid		1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
 finely stranded 		
— with core end processing		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
• at AWG conductors		
— solid		2x (20 14)

— stranded		2x (20 14)
Tightening torque with screw-type terminals	N∙m	1.2 0.8
Outputs:	_	
Number of NO contacts delayed switching	_	0
	_	
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		2
Ampacity of the output relay		
• at AC-15		
— at 250 V at 50/60 Hz	А	3
— at 400 V at 50/60 Hz	А	3
• at DC-13		
— at 24 V	А	1
— at 125 V	А	0.2
— at 250 V	А	0.1
Operating current at 17 V minimum	mA	5
Continuous current of the DIAZED fuse link of the	А	4
output relay		
Thermal current of the switching element with	А	5
contacts maximum		

Certificates/ approvals:

General Prod	General Product Approval		EMC	Declaration of Conformity	Test Certificates
		rnr	A		Special Test











Certificate

Test Certificates	Shipping Approval	other	Railway
<u>Type Test</u> Certificates/Test <u>Report</u>	Lloyd's Register	Confirmation	Vibration and Shock

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

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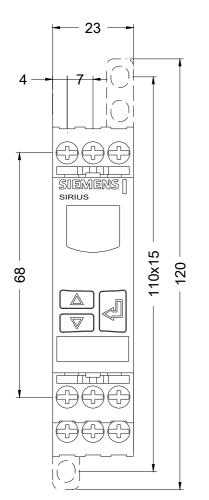
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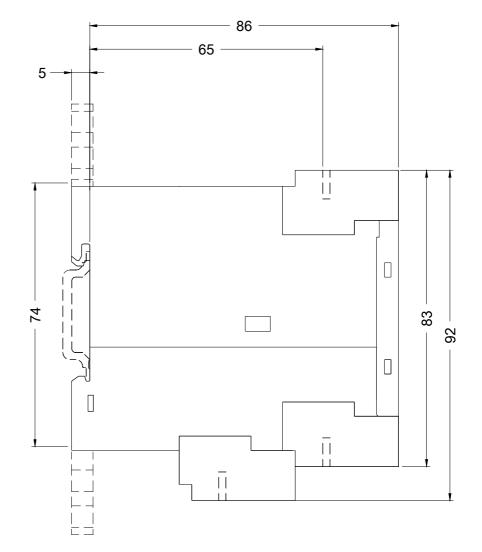
Cax online generator

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







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