SIEMENS

Product function

Relative metering precision

Precision of digital display

Temperature drift per °C

Relative repeat accuracy

Product data sheet 3UG4624-2CS20

> DIGITAL MONITORING RELAY FOR FAULT CURRENT MONITORING (W. CO CONTACT 3UL22) SETTING RANGE 10 TO 100% OF CO CONTACT NOM. VALUE SEPARATE FOR ALARM THRESHOLD AND SWITCH-OFF VALUE AC 90 TO 690V AC 50 TO 60 HZ STARTUP AND TRIPPING DELAYED 0.1 TO 20S SWITCH-OFF HYSTERESIS TO 50% ALARM HYSTERESIS 5% FIXED 2 CHANGEOVER CONTACTS W. OR W/O ERROR LOG SPRING-LOADED TYPE

> > for three-phase supplies

Measuring circuit:		
Type of current / for monitoring		AC
Measurable current	mA	30 40,000
Measurable line frequency	Hz	60 50
Adjustable response current		
•1	mA / A	30 40
• 2	mA / A	30 40
Adjustable response delay time		
when starting	s	0.1 20
Adjustable switching hysteresis for measured current value	mA	15 2
Stored energy time / at mains power cut / minimum	ms	10
Operating voltage		
• rated value	V	17 400

%

%/°C

%

5

0.1

1

+/-1 digit

General technical details:			
Design of the display	LCD		
Product function			
difference current indication	Yes		
defect storage	Yes		
overcurrent recognition of 1 phase	Yes		
 undercurrent recognition of 1 phase 	No		
• reset external	Yes		
open-circuit or closed-circuit current principle	Yes		

Starting time / after the control supply voltage has been applied	ms	1,000
Response time / maximum	ms	300
Type of voltage / of the controlled supply voltage		AC
Control supply voltage		
• at 50 Hz / at AC		
• rated value	V	90 690
• at 60 Hz / at AC		
• rated value	V	90 690
Operating range factor control supply voltage rated value		
• at 50 Hz		
• for AC		1
• at 60 Hz		
• for AC		1 1
Impulse voltage resistance / rated value	kV	6
Recorded real power	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Resistance against vibration / according to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Resistance against shock / according to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude / at a height over sea level / maximum	m	2,000
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3 / rated value	V	690
Degree of pollution		3
Ambient temperature		
during operating	°C	-25 +60
during storage	°C	-40 +85
during transport	°C	-40 +85
Design of the electrical isolation		galvanic
Galvanic isolation		
between entrance and outlet		Yes
between the outputs		Yes
 between the voltage supply and other circuits 		Yes

Mechanical design:		
Width	mm	22.5
Height	mm	103
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
• downwards	mm	0
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Product function / removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection		spring-loaded terminals
Type of the connectable conductor cross-section		
• solid		2x (0.25 1.5 mm²)
• finely stranded		
with wire end processing		2 x (0.25 1.5 mm²)
without wire end processing		2x (0.25 1.5 mm²)
• for AWG conductors		
• solid		2x (24 16)
• stranded		2x (24 16)
Outputs:		

Outputs:	
Number of NO contacts / delayed switching	0
Number of NC contacts / delayed switching	0
Number of change-over switches / delayed switching	2

Current carrying capacity / of output relay		
• at AC-15		
• at 250 V / at 50/60 Hz	Α	3
• at 400 V / at 50/60 Hz	Α	3
• at DC-13		
• at 24 V	Α	1
• at 125 V	Α	0.2
• at 250 V	Α	0.1
Operating current / at 17 V / minimum	mA	5
Continuous current / of the DIAZED fuse link of the output relay	Α	4
Thermal current / of the contact-affected switching element / maximum	А	5
Mechanical operating cycles as operating time / typical		10,000,000
Electrical operating cycles as operating time / at AC-15 / at 230 V / typical		100,000
Operating cycles / with 3RT2 contactor / maximum	1/h	5,000

Certificates/approvals:

EMC General Product Approval

Test Certificates







Special Test Certificate

Shipping Approval







Declaration of Conformity

other

other

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator:

http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3UG4624-2CS20/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4624-2CS20

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