



DIGITAL MONITORING RELAY FOR FAULT CURRENT MONITORING (W. CURRENT TRANSFORMER 3UL23)  
 SETTING RANGE 0.03A TO 40A SEPARATE FOR ALARM THRESHOLD AND SWITCH-OFF VALUE SUPPLY VOLTAGE AC/DC 24 .. 240 V,  
 50 .. 60 HZ STARTUP AND TRIPPING DELAY 0.1 TO 20S  
 SWITCH-OFF HYSTERESIS UP TO 50% ALARM HYSTERESIS 5% FIXED WIDTH 22.5 MM,  
 2 CO CONTACTS W. OR W/O ERROR LOG SCREW TERMINAL

Product function		for three-phase supplies
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### Measuring circuit:

Type of current / for monitoring		AC
Measurable current	mA / A	10 ... 43
Measurable line frequency	Hz	16 ... 400
Adjustable response value current		
• 1	mA / A	30 ... 40
• 2	mA / A	30 ... 40
Adjustable response delay time		
• when starting	s	0.1 ... 20
Buffering time / in the event of power failure / minimum	ms	10
Operating voltage		
• Rated value	V	24 ... 240
Relative metering precision	%	5
Accuracy of digital display		+/-1 digit
Temperature drift per °C	%/°C	0.1
Relative repeat accuracy	%	1

### General technical details:

Design of the display		LCD
Product function		



• difference current indication		Yes
• Fault storage		Yes
• Overcurrent detection 1 phase		Yes
• undercurrent detection 1 phase		No
• External reset		Yes
• Adjustable open/closed-circuit current principle		Yes
<b>Startup time / after the control supply voltage has been applied</b>	ms	1,600
<b>Response time / maximum</b>	ms	100
<b>Type of voltage / of the control supply voltage</b>		AC/DC
<b>Control supply voltage</b>		
• with AC / at 50 Hz		
• Rated value	V	24 ... 240
• with AC / at 60 Hz		
• Rated value	V	24 ... 240
• for DC		
• Rated value	V	24 ... 240
<b>Operating range factor control supply voltage rated value</b>		
• with AC		
• at 50 Hz		0.85 ... 1.1
• with AC		
• at 60 Hz		0.85 ... 1.1
• for DC		0.85 ... 1.1
<b>Surge voltage resistance / Rated value</b>	kV	4
<b>Active power consumption</b>	W	2
<b>Protection class IP</b>		IP20
<b>Electromagnetic compatibility</b>		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
<b>Vibration resistance / acc. to IEC 60068-2-6</b>		1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
<b>Shock resistance / acc. to IEC 60068-2-27</b>		sinusoidal half-wave 15g / 11 ms
<b>Installation altitude / at height above sea level / maximum</b>	m	2,000
<b>Conducted interference BURST / acc. to IEC 61000-4-4</b>		2 kV
<b>Conducted interference conductor-earth SURGE / acc. to IEC 61000-4-5</b>		2 kV
<b>Conducted interference conductor-conductor SURGE / acc. to IEC 61000-4-5</b>		1 kV
<b>Electrostatic discharge / acc. to IEC 61000-4-2</b>		4 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling / acc. to IEC 61000-4-3</b>		10 V/m
<b>Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3 / Rated value</b>	V	300
<b>Degree of pollution</b>		3
<b>Ambient temperature</b>		

• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
<b>Design of the electrical isolation</b>		galvanic
<b>Galvanic isolation</b>		
• between entrance and outlet		Yes
• between the outputs		Yes
• between the voltage supply and other circuits		No

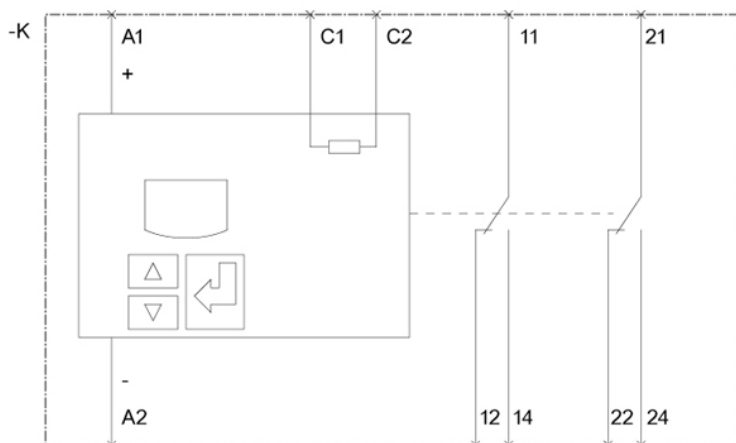
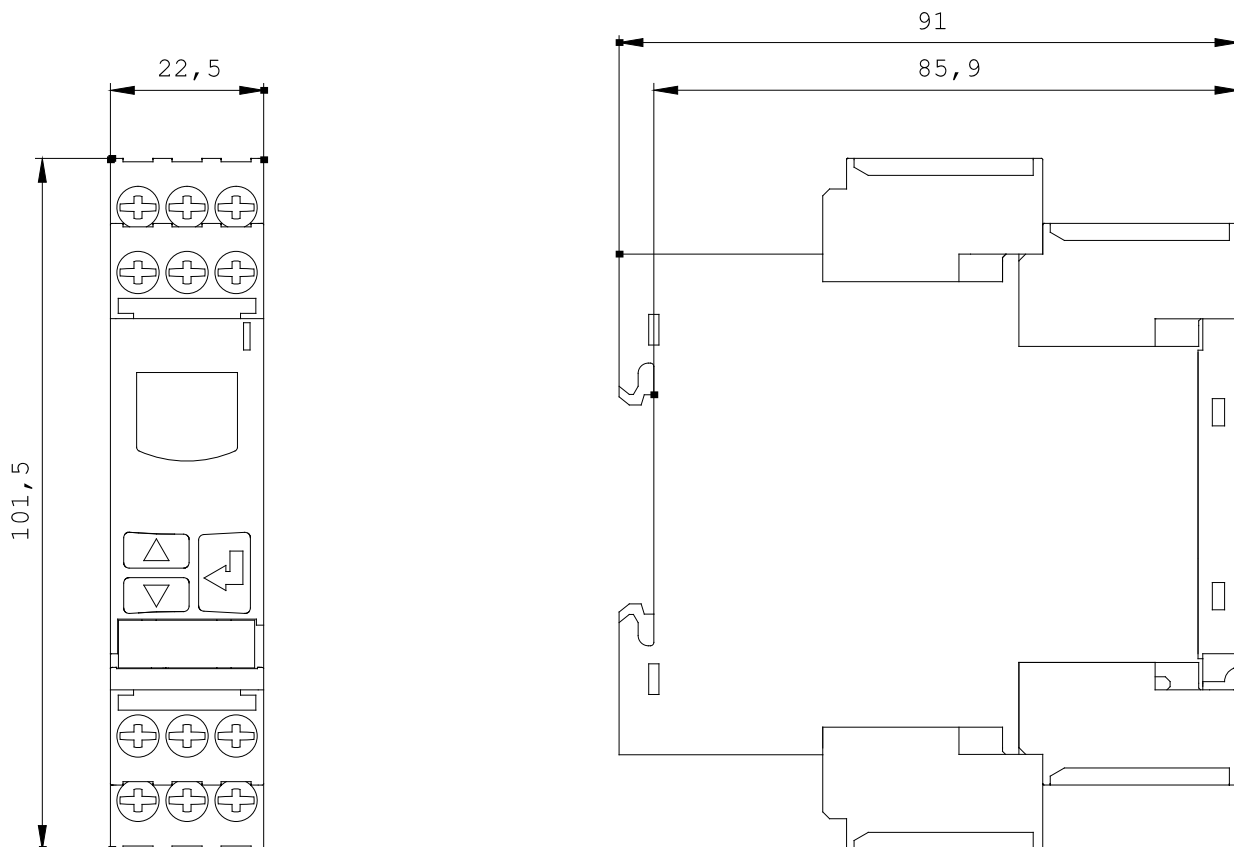
Mechanical design:		
<b>Width</b>	mm	22.5
<b>Height</b>	mm	102
<b>Depth</b>	mm	91
<b>mounting position</b>		any
<b>Spacing required</b>		
• for grounded parts	mm	0
• for grounded parts	mm	0
• for grounded parts	mm	0
• for grounded parts	mm	0
• for grounded parts	mm	0
<b>Spacing required</b>		
• with side-by-side mounting	mm	0
• with side-by-side mounting	mm	0
• with side-by-side mounting	mm	0
• with side-by-side mounting	mm	0
• with side-by-side mounting	mm	0
<b>Spacing required</b>		
• for live parts	mm	0
• for live parts	mm	0
• for live parts	mm	0
• for live parts	mm	0
• for live parts	mm	0
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail
<b>Product function / removable terminal for auxiliary and control circuit</b>		Yes
<b>Design of the electrical connection</b>		screw-type terminals
<b>Type of connectable conductor cross-section</b>		
• solid		1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded		

<ul style="list-style-type: none"> <li>• with core end processing</li> <li>• for AWG conductors <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul> </li> </ul>		1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
		2x (20 ... 14)
		2x (20 ... 14)
<b>Tightening torque</b> <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	N·m	0.8 ... 1.2

Outputs:		
Number of NO contacts / delayed switching		0
Number of NC contacts / delayed switching		0
Number of CO contacts / delayed switching		2
<b>Ampacity / of the output relay</b> <ul style="list-style-type: none"> <li>• at AC-15 <ul style="list-style-type: none"> <li>• at 250 V / at 50/60 Hz</li> <li>• at 400 V / at 50/60 Hz</li> </ul> </li> <li>• at DC-13 <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 125 V</li> <li>• at 250 V</li> </ul> </li> </ul>	A A  A A A	3 0  1 0.2 0.1
Operating current / at 17 V / minimum	mA	5
Continuous current / of the DIAZED fuse link of the output relay	A	4
Thermal current / of the switching element with contacts / maximum	A	5
Mechanical service life (switching cycles) / typical		10,000,000
Electrical endurance (switching cycles) / at AC-15 / at 230 V / typical		100,000
Operating frequency / with 3RT2 contactor / maximum	1/h	5,000

Certificates/approvals:		
General Product Approval	Test Certificates	other
 	<a href="#">Special Test Certificate</a>	<a href="#">Type Test Certificates/Test Report</a>
		<a href="#">Declaration of Conformity</a> <a href="#">other</a>

Further information:
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a>
<b>Industry Mall (Online ordering system)</b> <a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
<b>Cax online generator:</b> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="http://support.automation.siemens.com/WW/view/en/3UG4625-1CW30/all">http://support.automation.siemens.com/WW/view/en/3UG4625-1CW30/all</a>



last change:

Nov 3, 2014