



DIGITAL MONITORING RELAY VOLTAGE MONITORING, 22.5MM FROM 17 TO 275V AC/DC OVERSHOOT AND UNDERSHOOT INTERNAL POWER SUPPLY DC AND AC 50 TO 60 HZ SPIKE DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 150V 1 CHANGEOVER CONTACT SPRING-LOADED TYPE

<b>Product function</b>		Voltage monitoring relay
<b>Measuring circuit:</b>		
<b>Type of voltage / for monitoring</b>		AC/DC
<b>Number of poles / for main current circuit</b>		1
<b>Measurable line frequency</b>	Hz	40 ... 500
<b>Measurable voltage</b>		
• for AC	V	17 ... 275
<b>Adjustable voltage range</b>	V	17 ... 275
<b>Adjustable response delay time</b>		
• when starting	s	0.1 ... 20
• with lower or upper limit violation	s	0.1 ... 20
<b>Response time / maximum</b>	ms	450
<b>Relative metering precision</b>	%	5
<b>Precision of digital display</b>		+/-1 digit
<b>Relative temperature-related measurement deviation</b>	%	0.1
<b>Relative repeat accuracy</b>	%	1
<b>General technical details:</b>		
<b>Design of the display</b>		LCD
<b>Product function</b>		
• tension window recognition of 1 phase		Yes

• tension window recognition of 3 phases		No
• tension window recognition DC		Yes
• overvoltage recognition of 1 phase		Yes
• overvoltage recognition of 3 phases		No
• overvoltage recognition DC		Yes
• undervoltage recognition of 1 phase		Yes
• undervoltage recognition of 3 phases		No
• undervoltage recognition DC		Yes
• reset external		Yes
• self-reset		Yes
• open-circuit or closed-circuit current principle		Yes
<b>Starting time / after the control supply voltage has been applied</b>	ms	1,000
<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>Control supply voltage</b>		
• at 50 Hz / at AC		
• rated value	V	17 ... 275
• at 60 Hz / at AC		
• rated value	V	17 ... 275
• for DC		
• rated value	V	17 ... 275
<b>Operating range factor control supply voltage rated value</b>		
• at 50 Hz		
• for AC		1 ... 1
• at 60 Hz		
• for AC		1 ... 1
• for DC		1 ... 1
<b>Impulse voltage resistance / rated value</b>	kV	4
<b>Recorded real power</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>Resistance against vibration / according to IEC 60068-2-6</b>		1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
<b>Resistance against shock / according to IEC 60068-2-27</b>		sinusoidal half-wave 15g / 11 ms
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Maximum permissible voltage for safe disconnection</b>		
• between control and auxiliary circuit	V	300
• between auxiliary circuit and auxiliary circuit	V	300
<b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>		2 kV
<b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>		2 kV

<b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b>		1 kV
<b>Electrostatic discharge / according to IEC 61000-4-2</b>		6 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling / according 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	690
<b>Ambient temperature</b>		
• during operating	°C	-25 ... +60
• during storage	°C	85 ... -40
• during transport	°C	85 ... -40
<b>Design of the electrical isolation</b>		Safe isolation
<b>Galvanic isolation</b>		
• between entrance and outlet		Yes
• between the outputs		Yes
• between the voltage supply and other circuits		No
<b>Mechanical operating cycles as operating time / typical</b>		10,000,000
<b>Electrical operating cycles as operating time / at AC-15 / at 230 V / typical</b>		100,000
<b>Operating cycles / with 3RT2 contactor / maximum</b>	1/h	5,000

#### Mechanical design:








<b>Width</b>	mm	22.5
<b>Height</b>	mm	94
<b>Depth</b>	mm	91
<b>mounting position</b>		any
<b>Distance, to be maintained, to earthed part</b>		
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
• upwards	mm	0
• downwards	mm	0
<b>Distance, to be maintained, to the ranks assembly</b>		
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
• upwards	mm	0
• downwards	mm	0
<b>Distance, to be maintained, conductive elements</b>		
• forwards	mm	0
• backwards	mm	0

• sideways	mm	0
• upwards	mm	0
<b>Type of mounting</b>		snap-on mounting
<b>Product function / removable terminal for auxiliary and control circuit</b>		Yes
<b>Design of the electrical connection</b>		spring-loaded terminals
<b>Type of the connectable conductor cross-section</b>		
• solid		2x (0.25 ... 1.5 mm <sup>2</sup> )
• finely stranded		
• with wire end processing		2 x (0.25 ... 1.5 mm <sup>2</sup> )
• without wire end processing		2x (0.25 ... 1.5 mm <sup>2</sup> )
• for AWG conductors		
• solid		2x (24 ... 16)
• stranded		2x (24 ... 16)

#### Outputs:

<b>Number of NO contacts / delayed switching</b>		0
<b>Number of NC contacts / delayed switching</b>		0
<b>Number of change-over switches / delayed switching</b>		1
<b>Operating current / at 17 V / minimum</b>	mA	5
<b>Continuous current / of the DIAZED fuse link of the output relay</b>	A	4

#### Certificates/approvals:

General Product Approval			EMC	Test Certificates
 CCC	 GOST	 UL	 C-TICK	<a href="#">Special Test Certificate</a>
Shipping Approval			other	
 DNV	 GL	 LRS	<a href="#">Declaration of Conformity</a>	<a href="#">other</a>

#### 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:

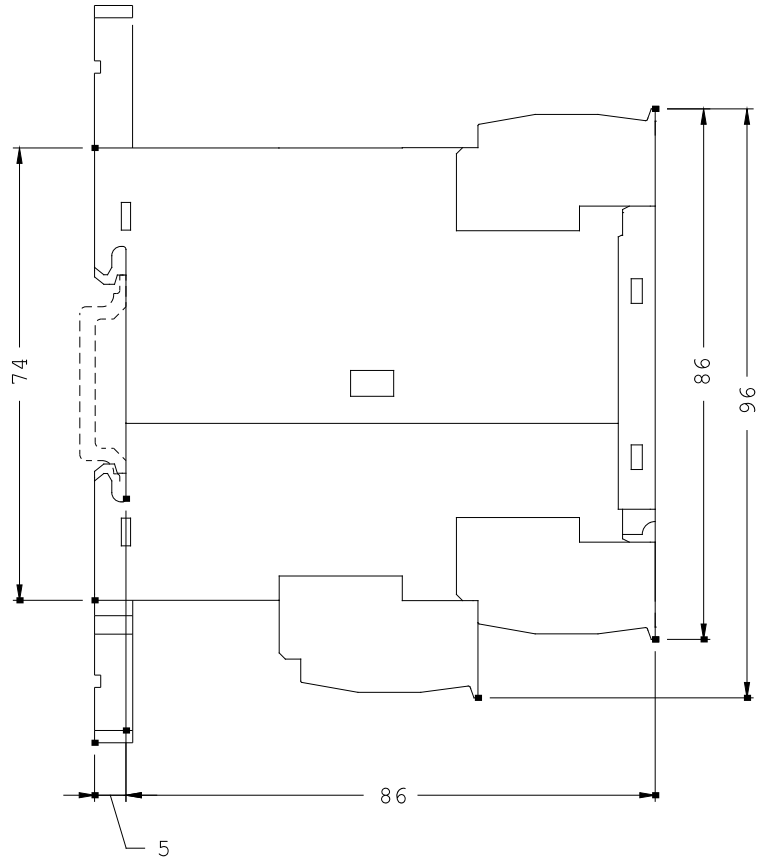
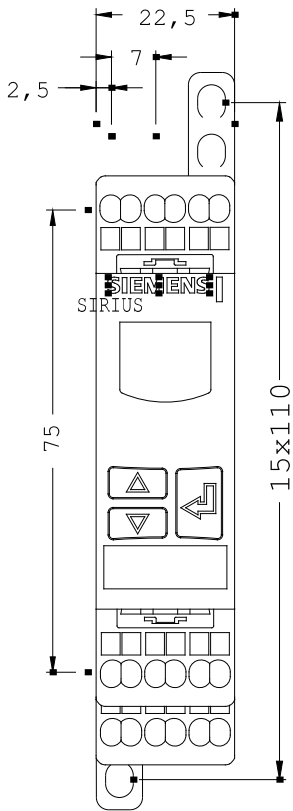
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/3UG4633-2AL30/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3UG4633-2AL30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4633-2AL30)



last change:

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