SIEMENS

Product data sheet

DIGITAL MONITORING RELAY VOLTAGE MONITORING, 22.5MM FROM 0.1 TO 60V AC/DC OVERSHOOT AND UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ SPIKE DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 30V 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SPRING-LOADED TYPE

Product function		Voltage monitoring relay	
Measuring circuit:			
Type of voltage / for monitoring		AC/DC	
Number of poles / for main current circuit		1	
Measurable line frequency	Hz	500 40	
Measurable voltage			
• for AC	V	0.1 60	
Adjustable voltage range	V	0.1 60	
Adjustable response delay time			
with lower or upper limit violation	s	0.1 20	
Response time / maximum	ms	450	
Relative metering precision	%	5	
Precision of digital display		+/-1 digit	
Relative temperature-related measurement deviation	%	0.1	
Relative repeat accuracy	%	1	

General technical details:		
Design of the display	LCD	
Product function		
 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
Starting time / after the control supply voltage has been applied	ms	1,000
Type of voltage / of the controlled supply voltage	-	AC/DC
Control supply voltage	-	
• at 50 Hz / at AC		
rated value	V	24 240
• at 60 Hz / at AC		
rated value	V	24 240
• for DC		
• rated value	V	24 240
Operating range factor control supply voltage rated value	-	
• at 50 Hz		
• for AC		0.85 1.1
• at 60 Hz		
• for AC		0.85 1.1
• for DC		0.85 1.1
Impulse voltage resistance / rated value	kV	4
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
Maximum permissible voltage for safe disconnection		
 between control and auxiliary circuit 	V	300
 between auxiliary circuit and auxiliary circuit 	V	300
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
Ambient temperature		
during operating	°C	-25 +60
during storage	°C	-40 +85
during transport	°C	-40 +85
Design of the electrical isolation		Safe isolation

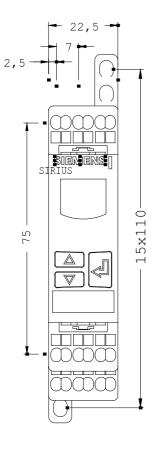
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Galvanic isolation		
between entrance and outlet		Yes
between the outputs		Yes
 between the voltage supply and other circuits 		Yes
Mechanical operating cycles as operating time / typical		10,000,000
Electrical operating cycles as operating time / at AC-15 / at 230 V / typical	-	100,000
Operating cycles / with 3RT2 contactor / maximum	1/h	5,000

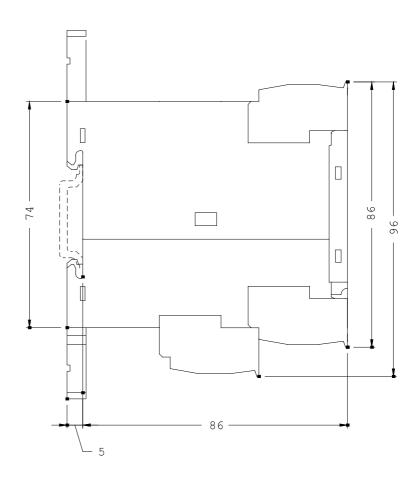
Mechanical design:		
Width	mm	22.5
Height	mm	94
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
forwards	mm	0
backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
downwards	mm	0
Distance, to be maintained, to the ranks assembly		
forwards	mm	0
backwards	mm	0
• sidewards	mm	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
Type of mounting		snap-on mounting
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:		
Number of NO contacts / delayed switching		0
Number of NC contacts / delayed switching		0
Number of change-over switches / delayed switching		1
Operating current / at 17 V / minimum	mA	5
Continuous current / of the DIAZED fuse link of the output relay	А	4
Thermal current / of the contact-affected switching element / maximum	A	5

Certificates/approvals:				
General Produc	t Approval		EMC	Test Certificates
	GOST		С-ТІСК	Special Test Certificate
Shipping Appro	oval		other	
ŮŇV DNV	GL	Llovd's Register LRS	Declaration of Conformity	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/3UG4631-2AW30/all Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4631-2AW30





last change:

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