

DIGITAL MONITORING RELAY VOLTAGE MONITORING,
 22.5MM FROM 10 TO 600V 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 300V 1
 CHANGEOVER CONTACT W. OR W/O ERROR LOG
 SCREW TERMINAL REPLACEMENT PRODUCT F.
 3UG3532-1AL20,
 3UG3532-1AG20

Product function	Voltage monitoring relay
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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	10 ... 600
Adjustable voltage range	V	10 ... 600
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

<ul style="list-style-type: none"> • self-reset 		Yes
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • at 50 Hz / at AC <ul style="list-style-type: none"> • rated value 	V	24 ... 240
<ul style="list-style-type: none"> • at 60 Hz / at AC <ul style="list-style-type: none"> • rated value 	V	24 ... 240
<ul style="list-style-type: none"> • for DC <ul style="list-style-type: none"> • rated value 	V	24 ... 240
Operating range factor control supply voltage rated value		
<ul style="list-style-type: none"> • at 50 Hz <ul style="list-style-type: none"> • for AC 		0.85 ... 1.1
<ul style="list-style-type: none"> • at 60 Hz <ul style="list-style-type: none"> • for AC 		0.85 ... 1.1
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • between control and auxiliary circuit 	V	300
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • during operating 	°C	-25 ... +60
<ul style="list-style-type: none"> • during storage 	°C	-40 ... +85
<ul style="list-style-type: none"> • during transport 	°C	-40 ... +85

Design of the electrical isolation		Safe isolation
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	92
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
• upwards	mm	0
• downwards	mm	0
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
• upwards	mm	0
• downwards	mm	0
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• sideways	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		screw-type terminals
Type of the connectable conductor cross-section		
• solid		1x (0.5 ... 4 mm ²), 2x (0.5 ... 2.5 mm ²)
• finely stranded		
• with wire end processing		1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)

<ul style="list-style-type: none"> • for AWG conductors <ul style="list-style-type: none"> • solid • stranded 		2x (20 ... 14)
		2x (20 ... 14)
Tightening torque		
<ul style="list-style-type: none"> • 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 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	A	4
Thermal current / of the contact-affected switching element / maximum	A	5

Certificates/approvals:

General Product Approval	EMC	Test Certificates
 CCC  GOST  UL	 C-TICK	Special Test Certificate
Shipping Approval	other	
 DNV  GL  LRS	Declaration of Conformity	other

Further information:

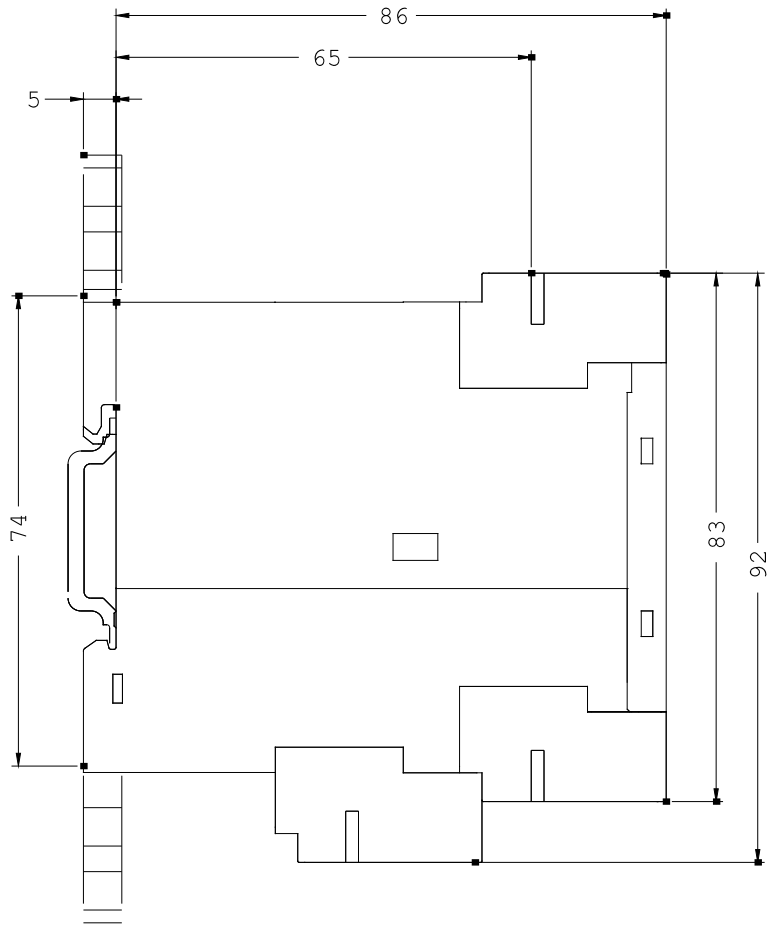
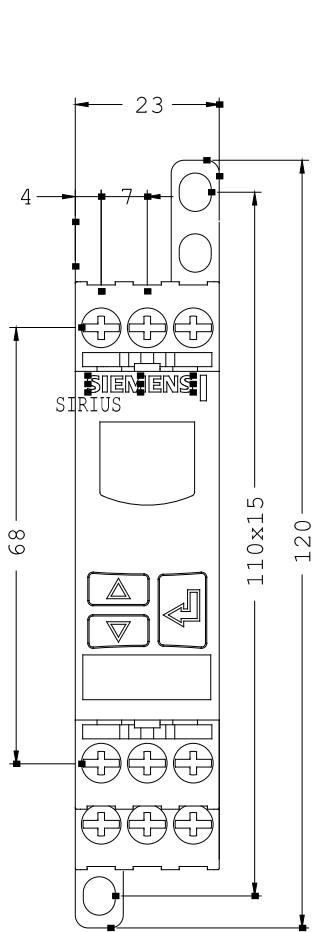
- Information- and Downloadcenter (Catalogs, Brochures,...)**
<http://www.siemens.com/industrial-controls/catalogs>

- 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/WWW/view/en/3UG4632-1AW30/all>

- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4632-1AW30



last change:

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