



DIGITAL MONITORING RELAY CURRENT MONITORING, 22.5MM FROM 0.05 TO 10A AC/DC OVERSHOOT AND UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ STARTUP AND INTERF. PEAK DELAY 0.1 TO 20S HYSTERESIS 0.01 TO 5A 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SPRING-LOADED TYPE

Figure similar

Product function		Current monitoring relay
Measuring circuit:		
Number of poles for main current circuit		1
Type of current for monitoring		AC/DC
Measurable current	A	0.05 ... 15
Measurable current at AC	mA	50 ... 15 000
Measurable line frequency	Hz	40 ... 500
Adjustable response value current		
• 1	A	0.05 ... 10
• 2	A	0.05 ... 10
Adjustable response delay time		
• when starting	s	0.1 ... 20
• with lower or upper limit violation	s	0.1 ... 20
Adjustable switching hysteresis for measured current value	mA	10 ... 5 000
Buffering time in the event of power failure minimum	ms	10
Operating voltage rated value	V	24 ... 240
Response time maximum	ms	450
Relative metering precision	%	5

Accuracy of digital display		+/-1 digit
Relative temperature-related measurement deviation	%	5
Temperature drift per °C	%/°C	0.1
Relative repeat accuracy	%	1

General technical data:

Design of the display		LCD
Product function		
• Overcurrent detection 1 phase		Yes
• Overcurrent detection 3 phase		No
• undercurrent detection 1 phase		Yes
• undercurrent detection 3 phases		No
• Overcurrent detection DC		Yes
• undercurrent detection DC		Yes
• Current window recognition DC		Yes
• External reset		Yes
• Auto-reset		Yes
• Adjustable open/closed-circuit current principle		Yes
Startup time after the control supply voltage has been applied	ms	1 000
Type of voltage of the supply voltage		AC/DC
Supply voltage		
• 1 at AC		
— at 50 Hz	V	24 ... 240
— at 60 Hz	V	240 ... 24
• 1		
— at DC	V	24 ... 240
Surge voltage resistance rated value	kV	4
Active power consumption	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Vibration resistance acc. to IEC 60068-2-6		1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
Shock resistance acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude at height above sea level maximum	m	2 000
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. 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
maximum permissible voltage for safe isolation		
• between control and auxiliary circuit	V	300
• between auxiliary and auxiliary circuit	V	300
Degree of pollution		3
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
Galvanic isolation		
• between entrance and outlet		Yes
• between the outputs		Yes
• between the voltage supply and other circuits		Yes






Mechanical data:		
Width	mm	22.5
Height	mm	94
Depth	mm	91
Mounting position		any
Required spacing for grounded parts		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing with side-by-side mounting		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing for live parts		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Mounting type		snap-on mounting
Type of electrical connection		
• for auxiliary and control current circuit		spring-loaded terminals
• for main current circuit		spring-loaded terminals

Product function		
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 		Yes
<ul style="list-style-type: none"> removable terminal for main circuit 		Yes
Type of connectable conductor cross-sections		
<ul style="list-style-type: none"> solid 		2x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> finely stranded <ul style="list-style-type: none"> with core end processing without core end processing 		2 x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> at AWG conductors <ul style="list-style-type: none"> solid stranded 		2x (24 ... 16) 2x (24 ... 16)

Outputs:

Number of NO contacts delayed switching		0
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		1
Ampacity		
<ul style="list-style-type: none"> of the output relay <ul style="list-style-type: none"> at AC-15 <ul style="list-style-type: none"> at 250 V at 50/60 Hz at 400 V at 50/60 Hz at DC-13 <ul style="list-style-type: none"> at 24 V at 125 V at 250 V for permanent overcurrent maximum permissible for overcurrent duration < 1 s maximum permissible 	A A A A A A A A	3 3 1 0.2 0.1 15 50
Operating current at 17 V minimum	A	0.005
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		EMC	Declaration of Conformity	Test Certificates
 CCC		 UL	 C-TICK	 EG-Konf.

[Typprüfbescheinigung/Werkszeugnis](#)

Test Certificates	Shipping Approval		other	Railway
spezielle Prüfbescheinigung <u>n</u>	 DNV	 GL	 LRS	Bestätigungen Schwingen/Schocke <u>n</u>

Further information

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

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

Industry Mall (Online ordering system)

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

Cax online generator

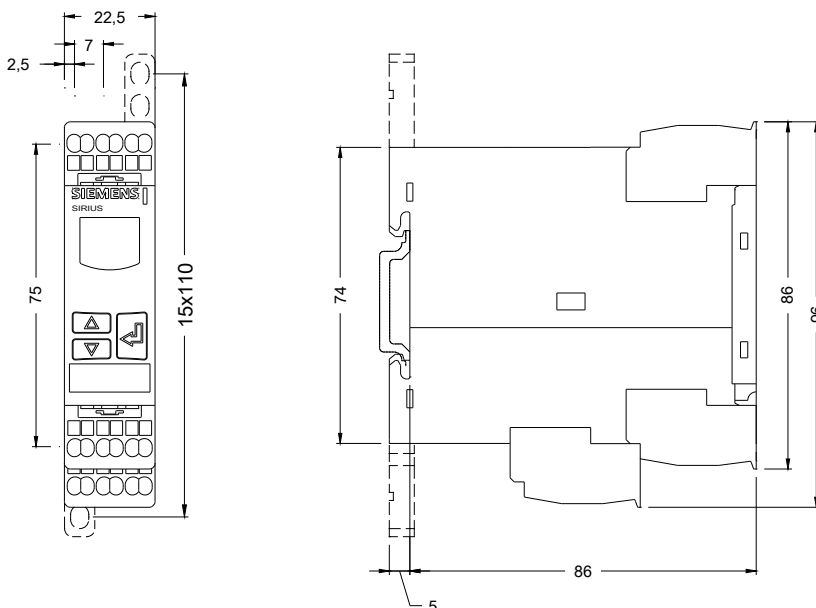
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3UG46222AW30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UG46222AW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3UG46222AW30&lang=en



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