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Data sheet 3UG5522-2AW30

Siemens EcoTech

analog monitoring relay current monitoring from 0.05 to 10 A AC/DC overshoot and undershoot supply voltage 24 ... 240 V AC/DC, 50 .. 60 Hz tripping delay 0.5-30 s 1 changeover contact spring-loaded terminal



product brand name	SIRIUS
product designation	Analog setting current monitoring relay
design of the product	monitoring of undercurrent and overcurrent, externally powered with auxiliary voltage
product type designation	3UG5
General technical data	
product function	Current monitoring relay
power loss [W] maximum	1.5 W
power loss [V·A] maximum	3 V·A
insulation voltage for overvoltage category III according to IEC 60664	
● with degree of pollution 2 rated value	690 V
● with degree of pollution 3 rated value	690 V
degree of pollution	3
type of voltage of the operating voltage	AC/DC
surge voltage resistance rated value	4 kV
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15 g / 11 ms
vibration resistance according to IEC 60068-2-6	f = 4 ... 5,81 Hz, dmax = 15 mm; f = 5,81 ... 500 Hz, Amax = 20 m/s²; 10 cycles
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	K
Substance Prohibitance (day/month/year)	06/01/2023
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8
Net Weight	0.14 kg
Product Function	
product function	
● undervoltage detection	No
● overvoltage detection	No
● phase sequence recognition	No
● phase failure detection	No
● voltage monitoring	No
● current monitoring	Yes
● overcurrent detection 1 phase	Yes
● overcurrent detection 3 phase	No

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● undercurrent detection 1 phase	Yes
● undercurrent detection 3 phases	No
● overcurrent detection DC	Yes
● undercurrent detection DC	Yes
● current window recognition DC	Yes
● voltage window recognition 1 phase	No
● voltage window recognition 3 phase	No
● auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
● at 50 Hz rated value	24 ... 240 V
● at 60 Hz rated value	24 ... 240 V
control supply voltage at DC rated value	24 ... 240 V
operating range factor control supply voltage rated value at DC	
● initial value	0.85
● full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
● initial value	0.85
● full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
● initial value	0.85
● full-scale value	1.1
Supply voltage	
type of voltage of the supply voltage	AC/DC
supply voltage 1 at AC	
● at 50 Hz	24 ... 240 V
● at 60 Hz	24 ... 240 V
supply voltage 1 at DC	24 ... 240 V
Measuring circuit	
type of current for monitoring	AC/DC
measurable current	0.05 ... 10 A
adjustable current response value current	
● 1	0.1 ... 10 A
● 2	0.1 ... 10 A
adjustable response delay time	
● when starting	0.5 ... 30 s
● with lower or upper limit violation	0.5 ... 30 s
buffering time in the event of power failure minimum	10 ms
internal resistance of the measuring circuit	5 mΩ
Precision	
relative metering precision	20 %
Communication/ Protocol	
protocol is supported IO-Link protocol	No
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts	
● delayed switching	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	1
operating voltage rated value	24 ... 240 V
ampacity of the output relay at AC-15	
● at 250 V at 50/60 Hz	3 A
● at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	

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● at 24 V	1 A
● at 125 V	0.2 A
● at 250 V	0.1 A
operational current at 17 V minimum	5 A
continuous current of the DIAZED fuse link of the output relay	6 A
Electromagnetic compatibility	
conducted interference	
● due to burst according to IEC 61000-4-4	2 kV
● due to conductor-earth surge according to IEC 61000-4-5	2 kV
● due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	galvanic isolation
galvanic isolation	
● between input and output	Yes
● between the voltage supply and other circuits	Yes
Safety related data	
product function suitable for safety function	No
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminal (push-in)
● for main current circuit	spring-loaded terminals
● for auxiliary and control circuit	spring-loaded terminals (push-in)
type of connectable conductor cross-sections	
● solid	1x (0.5 ... 4 mm²)
● finely stranded with core end processing	1x (0.5 ... 2.5 mm²)
● finely stranded without core end processing	0.5 ... 4 mm²
● for AWG cables solid	1x (20 ... 12)
● for AWG cables stranded	20 ... 12
connectable conductor cross-section	
● solid	0.5 ... 4 mm²
● finely stranded with core end processing	0.5 ... 2.5 mm²
● finely stranded without core end processing	0.5 ... 4 mm²
AWG number as coded connectable conductor cross section	
● solid	20 ... 12
● stranded	20 ... 12
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	100 mm
width	22.5 mm
depth	90 mm
required spacing	
● with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
● for grounded parts	
— forwards	0 mm
— backwards	0 mm

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— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
● for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

Ambient conditions

installation altitude at height above sea level maximum	2 000 m
ambient temperature	
● during operation	-25 ... +60 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C

Approvals Certificates

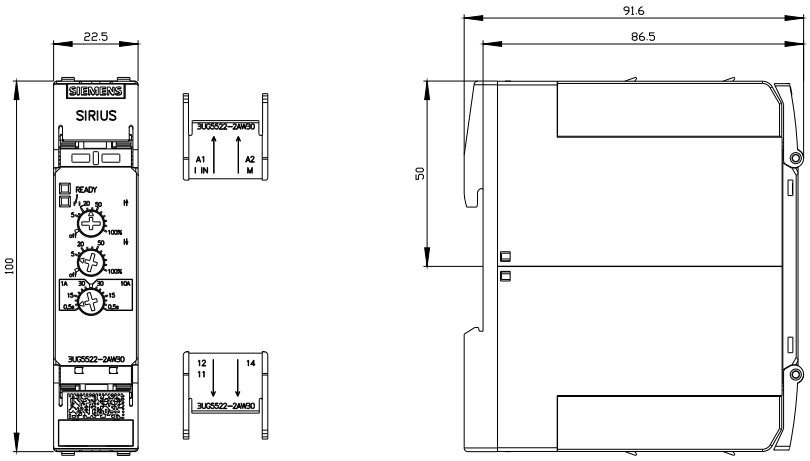
Environment	General Product Approval
Environmental Confirmations	

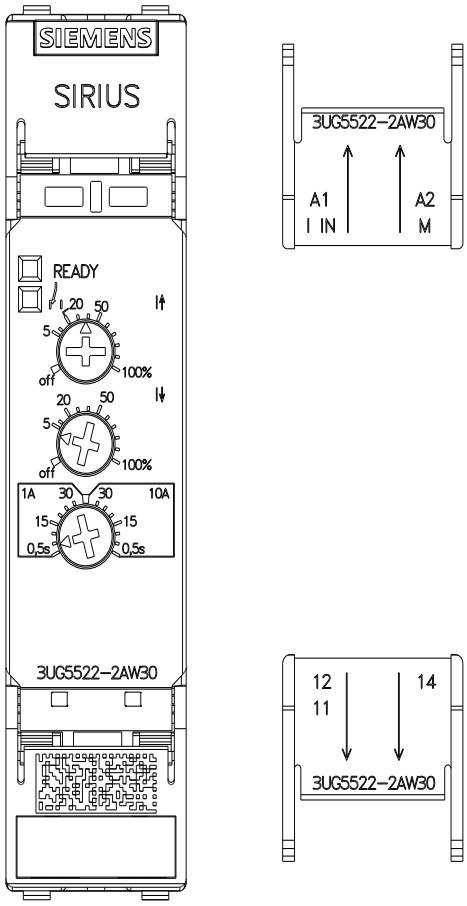
Test Certificates	Maritime application	other
Type Test Certificates/Test Report		Confirmation

Further information

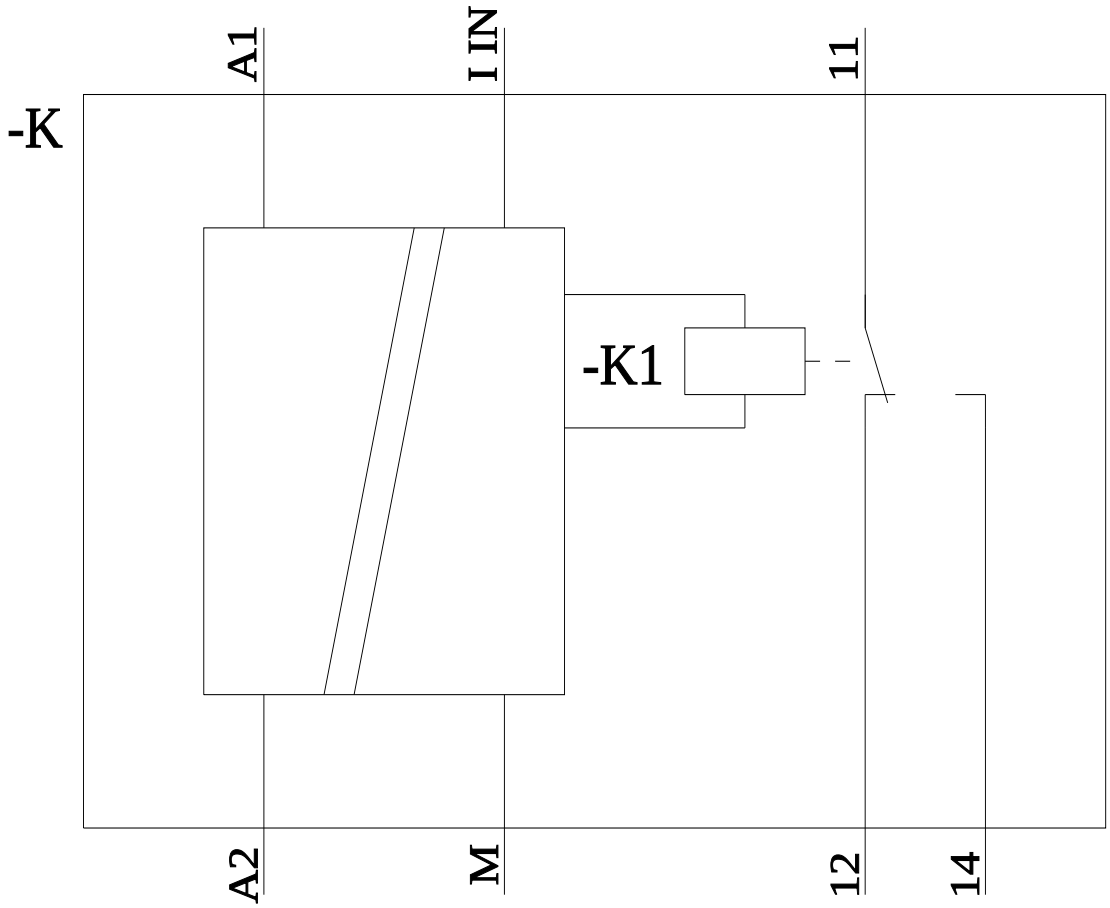
Information on the packaging
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3UG5522-2AW30
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
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