SIEMENS

Data sheet 3UF7600-1AU01-0



Multifunctional module, 4 inputs and 2 relay outputs, input voltage 110-240 V AC/DC relay outputs monostable, analog residual current detection, with residual-current transformer 3UL23 Connection temperature sensor Pt100/Pt1000/KTY/NTC, max. 1 multifunctional module per basic unit SIMOCODE pro S

product brand name	SIRIUS
product designation	Multifunction module
manufacturer's article number	
• 1 of residual current transformer connectable	<u>3UL2302-1A</u>
• 2 of residual current transformer connectable	<u>3UL2303-1A</u>
• 3 of residual current transformer connectable	<u>3UL2304-1A</u>
 4 of residual current transformer connectable 	<u>3UL2305-1A</u>
• 5 of residual current transformer connectable	<u>3UL2306-1A</u>
6 of residual current transformer connectable	3UL2307-1A
General technical data	
type of current for monitoring	Type A (alternating currents and pulsing DC residual currents)
response time maximum	0 s
product function residual current display	Yes
adjustable current response value current	40 0.03 A
product component	
 input for thermistor connection 	No
digital input	Yes
 input for residual current converter 	Yes
 input for analog temperature sensors 	Yes
 input for ground fault detection 	Yes
relay output	Yes
consumed active power	0.8 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance	
 when mounted on current measuring module according to IEC 60068-2-27 	10 g / 11 ms
• according to IEC 60068-2-27	15g / 11 ms
vibration resistance	
• according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
 when mounted on current measuring module according to IEC 60068-2-6 	1 4 Hz / 15 mm, 4 500 Hz / 1g
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	6 A
• at 120 V	6 A
• at 230 V	3 A
switching capacity current of the NO contacts of the relay outputs at DC-13	
• at 24 V	2 A

● at 60 V	0.55 A
● at 125 V	0.25 A
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	100 000
buffering time in the event of power failure	0 s
reference code according to IEC 81346-2	K
continuous current of the NO contacts of the relay outputs	
● at 50 °C	6 A
● at 60 °C	5 A
Substance Prohibitance (Date)	05/01/2012
certificate of suitability according to ATEX directive 2014/34/EU	BVS 06 ATEX F001
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)
measurable temperature	
with NTC minimum	80 °C
with NTC maximum	160 °C
with KTY 84 minimum	-40 °C
• with KTY 84 maximum	300 °C
• with KTY 83-110 minimum	-50 °C
• with KTY 83-110 maximum	175 °C
• with Pt 1000 minimum	-50 °C
• with Pt 1000 maximum	500 °C
• with Pt 100 minimum	-50 °C
• with Pt 100 maximum	500 °C
relative temperature-related measurement deviation at 20 °C	2 %
sensor current for Pt 100 typical	1 mA
sensor current for Pt 1000/KTY 83-110/KTY 84/NTC typical	0.2 mA
diagnostics function at sensor input with residual current transformer	
short-circuit detection	Yes
open-circuit detection	Yes
diagnostics function at sensor input with Pt 100	
short-circuit detection	Yes
open-circuit detection	Yes
diagnostics function at sensor input with Pt 1000	
short-circuit detection	Yes
open-circuit detection	Yes
diagnostics function at sensor input with KTY 83-110	V
short-circuit detection	Yes
open-circuit detection diagnostics function at sonsor input with KTV 84	Yes
diagnostics function at sensor input with KTY 84 • short-circuit detection	Yes
snort-circuit detection open-circuit detection	Yes
diagnostics function at sensor input with NTC	1.00
short-circuit detection	Yes
open-circuit detection	No
type of connection technology of sensor circuit	2-wire or 3-wire connection
A/D conversion time at sensor circuit	500 ms
measurable line frequency initial value	
	16 Hz
· · · · · · · · · · · · · · · · · · ·	16 Hz 400 Hz
measurable line frequency full-scale value relative measurement deviation of residual current	
measurable line frequency full-scale value relative measurement deviation of residual current transformer	400 Hz
measurable line frequency full-scale value relative measurement deviation of residual current transformer Electromagnetic compatibility	400 Hz 7.5 %
measurable line frequency full-scale value relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1	400 Hz 7.5 % class A
measurable line frequency full-scale value relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	400 Hz 7.5 %
relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference	400 Hz 7.5 % class A corresponds to degree of severity 3
relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4	400 Hz 7.5 % class A corresponds to degree of severity 3 2 kV (power ports) / 1 kV (signal ports)
relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	400 Hz 7.5 % class A corresponds to degree of severity 3 2 kV (power ports) / 1 kV (signal ports) 2 kV
relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	400 Hz 7.5 % class A corresponds to degree of severity 3 2 kV (power ports) / 1 kV (signal ports)
relative measurement deviation of residual current transformer Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	400 Hz 7.5 % class A corresponds to degree of severity 3 2 kV (power ports) / 1 kV (signal ports) 2 kV

4-6	
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
conducted HF interference emissions according to	corresponds to degree of severity A
field-bound HF interference emission according to CISPR11	corresponds to degree of severity A
Inputs/ Outputs	
product function	
parameterizable inputs	Yes
parameterizable outputs	Yes
number of inputs	4
number of digital inputs	4
with a common reference potential	4
digital input version	•
• type 1 acc. to IEC 61131	No
• type 2 acc. to IEC 61131	Yes
number of analog inputs	0
number of analog inputs	
for ground fault detection	1
for temperature measurement	1
input voltage at digital input at DC rated value	230 V
number of outputs	2
number of outputs number of semiconductor outputs	0
number of semiconductor outputs number of outputs as contact-affected switching element	2
	0
number of analog outputs	
switching behavior	monostable
property of contacts of the relay outputs	Floating NO contacts (NC reaction parameterizable via internal signal conditioning), of which 2 relay outputs connected to common ground and one relay output separately, can be freely assigned to the control functions (e.g. line, star (wye), delta contactor or signaling of the operating state)
wire length for digital signals maximum	200 m
Protective and monitoring functions	
product function ground fault detection	Yes
design of the sensor for temperature measurement connectable	PT100 / PT1000 / KTY83-110 / KTY84 / NTC
Precision	
temperature drift per °C	0.05 %/°C
Installation/ mounting/ dimensions	
mounting position	
height	any
	any 100 mm
width	·
width depth	100 mm
	100 mm 22.5 mm
depth	100 mm 22.5 mm
depth required spacing	100 mm 22.5 mm 124.5 mm
depth required spacing • top	100 mm 22.5 mm 124.5 mm
depth required spacing • top • bottom	100 mm 22.5 mm 124.5 mm 40 mm
depth required spacing top bottom left right diameter of inlet opening of connectable residual current	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm
depth required spacing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm
depth required spacing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm
depth required spacing top bottom left right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm
depth required spacing top bottom left right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm
depth required spacing • top • bottom • left • right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes
depth required spacing • top • bottom • left • right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
depth required spacing • top • bottom • left • right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16)
depth required spacing • top • bottom • left • right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)
depth required spacing top bottom left right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded tightening torque with screw-type terminals	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.6 0.8 N·m
depth required spacing • top • bottom • left • right diameter of inlet opening of connectable residual current transformer Connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded tightening torque with screw-type terminals tightening torque [lbf-in] with screw-type terminals	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14)
depth required spacing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.6 0.8 N·m
depth required spacing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.6 0.8 N·m 5.2 7 lbf·in
depth required spacing	100 mm 22.5 mm 124.5 mm 40 mm 40 mm 0 mm 0 mm 35 210 mm Yes 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (20 14), 2x (20 16) 1x (20 12), 2x (20 14) 0.6 0.8 N·m

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during storage during storage according to IEC 60721 SKG (no formation of ice, no condensation, relative humidity 1095%), 3C3 (no salt mist), 4S2 (sand must not get into the devices), 3M6 during storage according to IEC 60721 SKG (no formation of ice, no condensation, relative humidity 1095%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 relative humidity during operation contact rating of auxiliary contacts according to UL Short-circuit protection design of short-circuit protection per output Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (IEK 500 A) Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60941- JAl circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0256, must be observed (link see further information) galvanic isolation between inputs and electronics No Control supply voltage at AC a 150 Hz rated value 110 240 V control supply voltage at AC a 150 Hz rated value 110 240 V control supply voltage frequency 1 control supply voltage frequency 1 oracle value ora	ambient temperature	
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during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 dealth with the devices, 1M4 devices,		
(sand must not get into the devices), 1M4 (sand must not get into the devices,		
relative humidity during operation 10 95 % contact rating of auxiliary contacts according to UL B300 / R300 Short-circuit protection design of short-circuit protection per output but protection against electrical shock Galvanic Isolation (electrically) protective separation according to IEC 60947-1 galvanic isolation between inputs and electronics No Control circuit/ Control type of voltage of the control supply voltage at AC a 150 Hz rated value a 160 Hz rated value operating range factor control supply voltage rated value at BC initial value initial value initial value full-scale value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control value operating range factor control value operating range f	 during storage according to IEC 60721 	
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Short-circuit protection design of short-circuit protection per output breaker C char.: 1.6 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 the information in the "Protective Separation" (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) galvanic isolation between inputs and electronics No Control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value 110 240 V control supply voltage frequency 1 control supply voltage at DC at led value 110 240 V control supply voltage at DC initial value full-scale value 0.85 initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value full-scale value 0.85 initial value operating range factor control supply voltage rated value at AC at 60 Hz initial value full-scale value 0.85 initial value initial	relative humidity during operation	10 95 %
design of short-circuit protection per output Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char:: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A) Safety related data touch protection against electrical shock Galvanic isolation (electrically) protective separation according to IEC 60947-1 Galvanic isolation between inputs and electronics All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) galvanic isolation between inputs and electronics No Control Circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value 50 60 Hz control supply voltage frequency 1 control supply voltage at DC arated value operating range factor control supply voltage rated value at AC at 50 Hz initial value initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 60 Hz initial value operating range factor control supply voltage rated value at AC at 50 Hz initial value operating range factor control supply voltage rated value at AC at 60 Hz initial value initial value operating range factor control supply voltage rated value at AC at 60 Hz initial value	contact rating of auxiliary contacts according to UL	B300 / R300
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full-scale value		
Certificates/ approvals	• initial value	0.85
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General Product Approval EMC	Certificates/ approvals	
	General Product Approval	EMC

Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates





Explosion Protection Certificate





Type Test Certificates/Test Report

Test Certificates Marine / Shipping

other









Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7600-1AU01-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7600-1AU01-0

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

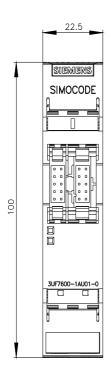
https://support.industry.siemens.com/cs/ww/en/ps/3UF7600-1AU01-0

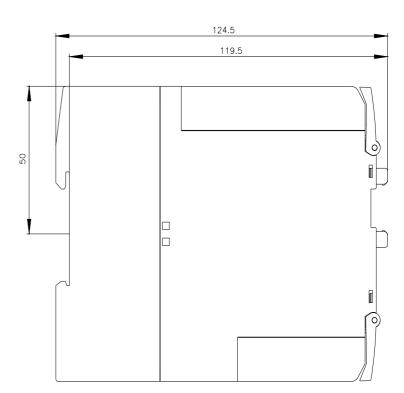
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

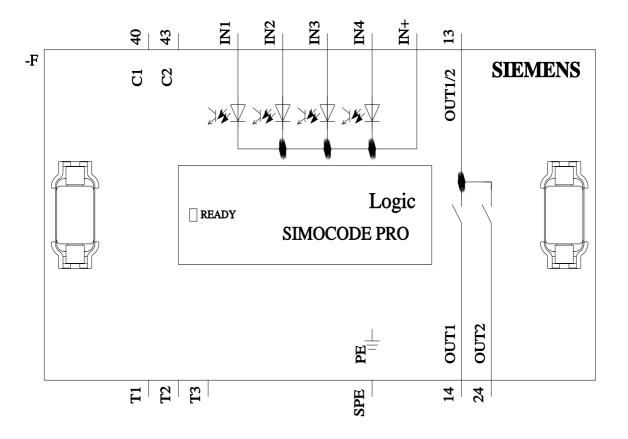
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7600-1AU01-0&lang=en

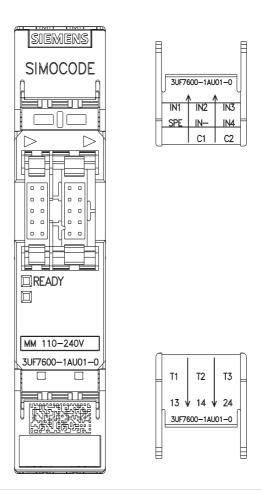
Test report No. A0258, protective separation

https://support.industry.siemens.com/cs/ww/en/view/109748152









last modified: 8/11/2023 🖸

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