# **SIEMENS**

Data sheet 3UF7310-1AB00-0



Digital module, 4 inputs and 2 relay outputs, input voltage 24 V DC, relay outputs bistable, max. 2 digital modules, for SIMOCODE pro V basic unit

product brand name	SIRIUS
product designation	digital modules
General technical data	
product component	
<ul> <li>input for thermistor connection</li> </ul>	No
<ul> <li>digital input</li> </ul>	Yes
<ul> <li>input for analog temperature sensors</li> </ul>	No
<ul> <li>input for ground fault detection</li> </ul>	No
<ul><li>relay output</li></ul>	Yes
consumed active power	0.7 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 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
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
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
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	1 kV
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<ul> <li>due to high-frequency radiation according to IEC</li> </ul>	10 V

#### 61000-4-6

field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

10 V/m

6 kV contact discharge / 8 kV air discharge corresponds to degree of severity A

corresponds to degree of severity A

### Inputs/ Outputs

product	function
product	IUIICUOII

parameterizable inputs

· parameterizable outputs

number of inputs number of digital inputs

• with a common reference potential

#### digital input version

• type 1 acc. to IEC 61131

• type 2 acc. to IEC 61131

number of analog inputs

input voltage at digital input at DC rated value

number of outputs

number of semiconductor outputs

number of outputs as contact-affected switching

element

number of analog outputs

switching behavior

property of contacts of the relay outputs

Yes

Yes

4

4

No

Yes

24 V

2

0

2

0

bistable

Floating NO contacts (NC reaction parameterizable via internal signal conditioning), connected to common ground, can be freely assigned to the control functions (e.g. line, star (wye), delta contactor or signaling of the operating state)

300 m

92 mm

40 mm

40 mm 0 mm

22.5 mm 124 mm

## wire length for digital signals maximum Installation/ mounting/ dimensions

mounting position

fastening method

height width

depth required spacing

• top

bottom

left

riaht

0 mm

## **Connections/ Terminals**

product component removable terminal for auxiliary and control circuit

type of connectable conductor cross-sections

solid

• finely stranded with core end processing

• at AWG cables solid

• at AWG cables stranded

tightening torque with screw-type terminals tightening torque [lbf·in] with screw-type terminals Yes

1x (0.5 ... 4.0 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>)

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)

1x (20 ... 14), 2x (20 ... 16)

screw and snap-on mounting

1x (20 ... 12), 2x (20 ... 14)

0.8 ... 1.2 N·m

7 ... 10.3 lbf·in

## **Ambient conditions**

## installation altitude at height above sea level

• 1 maximum

 2 maximum 3 maximum

ambient temperature

during operation

· during storage

during transport

environmental category

during operation according to IEC 60721

during storage according to IEC 60721

2 000 m

3 000 m; max. +50 °C (no protective separation)

4 000 m; max. +40 °C (no protective separation)

-25 ... +60 °C

-40 ... +80 °C

-40 ... +80 °C

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2

(sand must not get into the devices), 3M6

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 during transport according to IEC 60721 (sand must not get into the devices), 3M6 relative humidity during operation 5 ... 95 % contact rating of auxiliary contacts according to UL B300 / R300 Short-circuit protection Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature design of short-circuit protection per output 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 finger-safe Galvanic isolation (electrically) protective separation according to IEC All circuits with protective separation (double creepage paths and 60947-1 clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information) **Control circuit/ Control** DC type of voltage of the control supply voltage control supply voltage at DC 24 V operating range factor control supply voltage rated value at DC initial value 0.8 • full-scale value 1.2

Certificates/ approvals

**General Product Approval** 

**EMC** 





Confirmation







**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







other

Confirmation



Profibus

## 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=3UF7310-1AB00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7310-1AB00-0

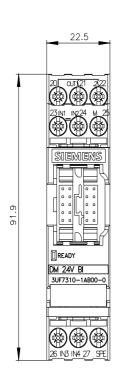
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

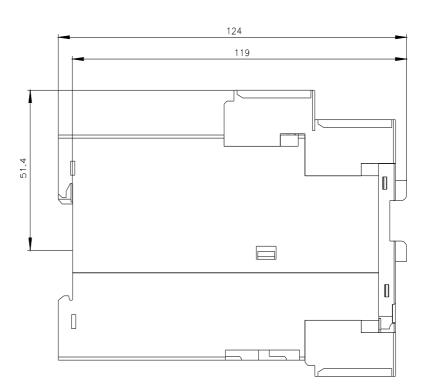
https://support.industry.siemens.com/cs/ww/en/ps/3UF7310-1AB00-0

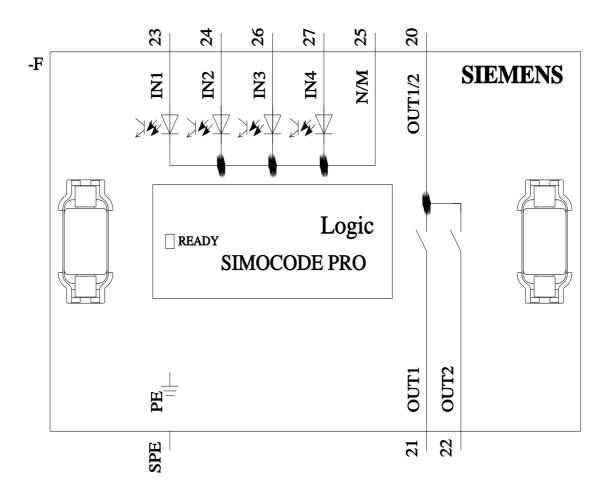
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7310-1AB00-0\&lang=en}$ 

Test report No. A0258, protective separation







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