



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	
• input for thermistor connection	No
• digital input	Yes
• input for analog temperature sensors	No
• input for ground fault detection	No
• relay output	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	
• due to burst according to IEC 61000-4-4	1 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
• due to high-frequency radiation according to IEC	10 V

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	Yes
• parameterizable inputs	Yes
• parameterizable outputs	4
number of inputs	4
number of digital inputs	4
• with a common reference potential	4
digital input version	No
• type 1 acc. to IEC 61131	Yes
• type 2 acc. to IEC 61131	0
number of analog inputs	24 V
input voltage at digital input at DC rated value	2
number of outputs	0
number of semiconductor outputs	2
number of outputs as contact-affected switching element	0
number of analog outputs	bistable
switching behavior	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)
property of contacts of the relay outputs	300 m
wire length for digital signals maximum	

Installation/ mounting/ dimensions

mounting position	any
fastening method	screw and snap-on mounting
height	92 mm
width	22.5 mm
depth	124 mm
required spacing	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm

Connections/ Terminals

product component removable terminal for auxiliary and control circuit	Yes
type of connectable conductor cross-sections	
• solid	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
• finely stranded with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
• at AWG cables solid	1x (20 ... 14), 2x (20 ... 16)
• at AWG cables stranded	1x (20 ... 12), 2x (20 ... 14)
tightening torque with screw-type terminals	0.8 ... 1.2 N·m
tightening torque [lbf·in] with screw-type terminals	7 ... 10.3 lbf·in

Ambient conditions

installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
environmental category	
• during operation according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

- during transport according to IEC 60721

relative humidity during operation

contact rating of auxiliary contacts according to UL

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
5 ... 95 %
B300 / R300

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 (I_N < 500 A)

Safety related data

touch protection against electrical shock

finger-safe

Galvanic isolation

(electrically) protective separation according to IEC 60947-1

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)

Control circuit/ Control

type of voltage of the control supply voltage

DC

control supply voltage at DC

- rated value

24 V

operating range factor control supply voltage rated value at DC

- initial value
- full-scale value

0.8

1.2

Certificates/ approvals

General Product Approval

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)



other

[Confirmation](#)



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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7310-1AB00-0&lang=en

Test report No. A0258, protective separation



