



Digital module, 4 inputs and 2 relay outputs, input voltage 24 V DC, relay outputs monostable, 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
- digital input
- input for analog temperature sensors
- input for ground fault detection
- relay output

No

Yes

No

No

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
- at 120 V
- at 230 V

6 A

6 A

3 A

switching capacity current of the NO contacts of the relay outputs at DC-13

- at 24 V
- at 60 V
- at 125 V

2 A

0.55 A

0.25 A

mechanical service life (switching cycles) typical

10 000 000

electrical endurance (switching 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
- at 60 °C

6 A

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)

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
- due to conductor-earth surge according to IEC

1 kV

2 kV

61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 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	1 kV 10 V 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 • 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 wire length for digital signals maximum	Yes Yes 4 4 4 No Yes 0 24 V 2 0 2 0 monostable 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
Installation/ mounting/ dimensions	
mounting position fastening method height width depth required spacing • top • bottom • left • right	any screw and snap-on mounting 92 mm 22.5 mm 124 mm 40 mm 40 mm 0 mm 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 mm²), 2x (0.5 ... 2.5 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) 1x (20 ... 14), 2x (20 ... 16) 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	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

<ul style="list-style-type: none">during operation according to IEC 60721during storage according to IEC 60721during transport according to IEC 60721	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 (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			
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	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 <ul style="list-style-type: none">rated value	24 V		
operating range factor control supply voltage rated value at DC <ul style="list-style-type: none">initial valuefull-scale value	0.8 1.2		
Certificates/ approvals			
General Product Approval			
<div><div> CSA</div><div> CCC</div><div>Confirmation</div><div> UL</div><div></div><div> RCM</div></div>			
For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
<div> IECEX</div> <div> ATEX</div> <div> UKCA</div> <div> EG-Konf.</div> <div>Type Test Certificates/Test Report</div> <div> ABS</div>			
Marine / Shipping		other	
<div> RMRS</div> <div> DNV-GL</div> <div>Confirmation</div> <div> Profibus</div>			
Further information			
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=3UF7300-1AB00-0			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7300-1AB00-0			
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7300-1AB00-0			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7300-1AB00-0&lang=en			
Test report No. A0258, protective separation https://support.industry.siemens.com/cs/ww/en/view/109748152			

