

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



<b>Product brand name</b>	SIRIUS
<b>Product designation</b>	digital modules
<b>General technical data</b>	
<b>Product component</b>	
<ul style="list-style-type: none"> <li>• input for thermistor connection</li> <li>• Digital input</li> <li>• input for analog temperature sensors</li> <li>• input for ground fault detection</li> <li>• Relay output</li> </ul>	<p>No</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p>
<b>Insulation voltage</b>	
<ul style="list-style-type: none"> <li>• with degree of pollution 3 rated value</li> </ul>	300 V
<b>Surge voltage resistance rated value</b>	4 000 V
<b>Protection class IP</b>	IP20
<b>Shock resistance</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-27</li> </ul>	15g / 11 ms
<b>Vibration resistance</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-6</li> </ul>	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
<b>Switching capacity current of the NO contacts of the relay outputs at AC-15</b>	

<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 120 V</li> <li>• at 230 V</li> </ul>	6 A 6 A 3 A
<b>Switching capacity current of the NO contacts of the relay outputs at DC-13</b> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> <li>• at 125 V</li> </ul>	2 A 0.55 A 0.25 A
<b>Mechanical service life (switching cycles)</b> <ul style="list-style-type: none"> <li>• typical</li> </ul>	10 000 000
<b>Electrical endurance (switching cycles)</b> <ul style="list-style-type: none"> <li>• typical</li> </ul>	100 000
<b>Thermal current of the switching element with contacts maximum</b>	6 A
<b>Reference code acc. to DIN EN 81346-2</b>	K
<b>Reference code acc. to DIN EN 61346-2</b>	K
<b>Continuous current of the NO contacts of the relay outputs</b> <ul style="list-style-type: none"> <li>• at 50 °C</li> <li>• at 60 °C</li> </ul>	6 A 5 A

Electromagnetic compatibility	
<b>EMC emitted interference</b> <ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	class A
<b>EMI immunity acc. to IEC 60947-1</b>	corresponds to degree of severity 3
<b>Conducted interference</b> <ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> <li>• due to high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	1 kV 2 kV 1 kV 10 V
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>Conducted HF-interference emissions acc. to CISPR11</b>	corresponds to degree of severity A
<b>Field-bound HF-interference emission acc. to CISPR11</b>	corresponds to degree of severity A

Inputs/ Outputs	
<b>Product function</b> <ul style="list-style-type: none"> <li>• Parameterizable inputs</li> <li>• Parameterizable outputs</li> </ul>	Yes Yes
<b>Number of inputs</b>	4

<b>Number of digital inputs</b>	4
<ul style="list-style-type: none"> <li>• with a common reference potential</li> </ul>	4
<b>Digital input version</b>	
<ul style="list-style-type: none"> <li>• Type 1 acc. to IEC 61131</li> </ul>	No
<ul style="list-style-type: none"> <li>• Type 2 acc. to IEC 61131</li> </ul>	Yes
<b>Number of analog inputs</b>	0
Input voltage at digital input at DC rated value	24 V
<b>Number of outputs</b>	2
<b>Number of outputs as contact-affected switching element</b>	2
<b>Number of analog outputs</b>	0
<b>Switching behavior</b>	monostable
<b>Number of semiconductor outputs</b>	0
<b>Property of contacts of the relay outputs</b>	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)
<b>Wire length for digital signals maximum</b>	300 m

### Installation/ mounting/ dimensions

<b>Mounting position</b>	any
<b>Mounting type</b>	screw and snap-on mounting
<b>Height</b>	92 mm
<b>Width</b>	22.5 mm
<b>Depth</b>	124 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• top</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>• bottom</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>• left</li> </ul>	0 mm
<ul style="list-style-type: none"> <li>• right</li> </ul>	0 mm

### Connections/Terminals

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>	Yes
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals
<b>Type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• at AWG conductors solid</li> </ul>	1x (20 ... 14), 2x (20 ... 16)
<ul style="list-style-type: none"> <li>• at AWG conductors stranded</li> </ul>	1x (20 ... 12), 2x (20 ... 14)
<b>Tightening torque</b>	
<ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	0.8 ... 1.2 N·m
<b>Tightening torque [lbf·in]</b>	

- with screw-type terminals

7 ... 10.3 lbf·in

## Ambient conditions

<b>Installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• 1 maximum</li> </ul>	2 000 m
<ul style="list-style-type: none"> <li>• 2 maximum</li> </ul>	3 000 m; max. +50 °C (no protective separation)
<ul style="list-style-type: none"> <li>• 3 maximum</li> </ul>	4 000 m; No protective separation at 40 °C
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +80 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +80 °C
<b>Environmental category</b>	
<ul style="list-style-type: none"> <li>• during operation acc. to IEC 60721</li> </ul>	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> <li>• during storage acc. to IEC 60721</li> </ul>	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> <li>• during transport acc. to IEC 60721</li> </ul>	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	5 ... 95 %
<b>Contact rating of auxiliary contacts according to UL</b>	B300 / R300

## Short-circuit protection

<b>Design of short-circuit protection</b>	
<ul style="list-style-type: none"> <li>• per output</li> </ul>	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

<b>Protection against electrical shock</b>	finger-safe
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## Galvanic isolation

<b>(electrically) protective separation acc. to IEC 60947-1</b>	Between relay outputs and electronics
<b>Design of the electrical isolation</b>	Protective separation in accordance with IEC 60947-1 for all circuits, up to installation altitude of 2000 m
<ul style="list-style-type: none"> <li>• Note</li> </ul>	Test report no. 2668 is to be observed

## Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	DC
<b>Control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 ... 24 V
<b>Operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>• initial value</li> </ul>	0.8
<ul style="list-style-type: none"> <li>• Full-scale value</li> </ul>	1.2

## Certificates/approvals

General Product Approval	EMC	For use in hazardous locations
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CCC



CSA



UL



C-Tick



ATEX

For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
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[Explosion Protection Certificate](#)



EG-Konf.

[Type Test Certificates/Test Report](#)



ABS



RMRS



DNVGL.COM/AF

## other

[Confirmation](#)

[PROFIsafe-Certification](#)



Profibus

[PROFINET-Certification](#)

## Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3UF7300-1AB00-0>

**Cax online generator**

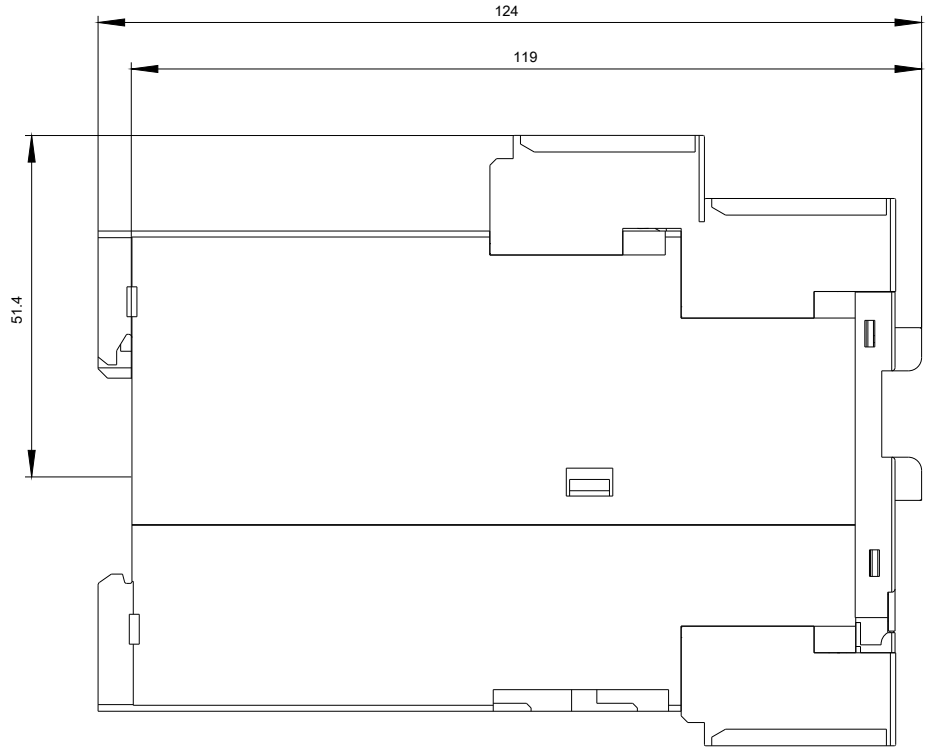
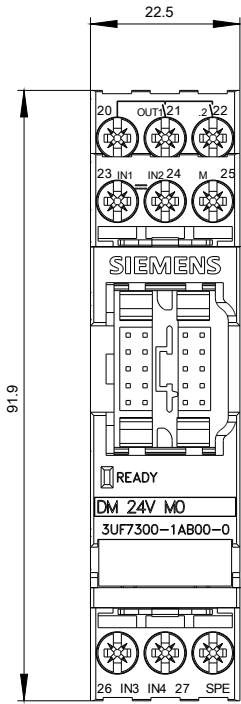
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3UF7300-1AB00-0>

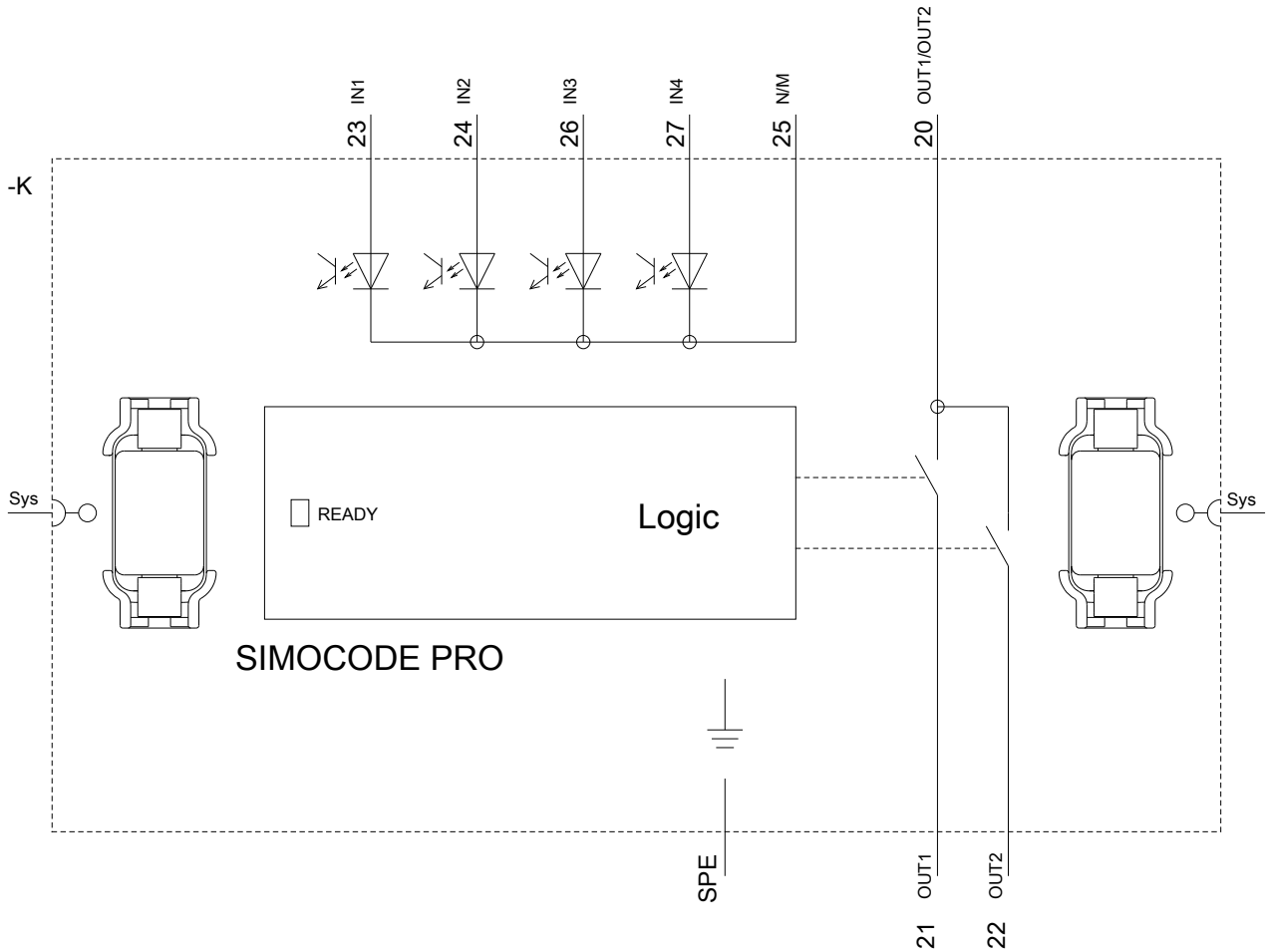
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<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?mfb=3UF7300-1AB00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3UF7300-1AB00-0&lang=en)





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