

































Digital module, 4 inputs and 2 relay outputs, input voltage 110-240 V  
AC/DC relay outputs bistable, 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>	No Yes No No Yes
insulation voltage with degree of pollution 3 at AC rated value	300 V
<b>surge voltage resistance rated value</b>	4 000 V
<b>protection class IP</b>	IP20
shock resistance acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	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
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) typical	100 000
<b>reference code acc. to IEC 81346-2</b>	K
continuous current of the NO contacts of the relay outputs	
<ul style="list-style-type: none"> <li>at 50 °C</li> <li>at 60 °C</li> </ul>	6 A 5 A
Substance Prohibitance (Date)	01.05.2012 00:00:00
<b>Electromagnetic compatibility</b>	
EMC emitted interference acc. to IEC 60947-1	class A
<b>EMC 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> </ul>	1 kV 2 kV

<ul style="list-style-type: none"> <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
<b>field-based interference 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
<b>Inputs/ Outputs</b>	
<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> <li>• type 2 acc. to IEC 61131</li> </ul>	No No
<b>number of analog inputs</b>	0
input voltage at digital input at DC rated value	110 V
<b>number of outputs</b>	2
<b>number of semiconductor outputs</b>	0
<b>number of outputs as contact-affected switching element</b>	2
<b>number of analog outputs</b>	0
<b>switching behavior</b>	bistable
<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>	200 m
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</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> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	40 mm 40 mm 0 mm 0 mm
<b>Connections/ Terminals</b>	
product component removable terminal for auxiliary and control circuit	Yes
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• at AWG cables solid</li> <li>• at AWG cables stranded</li> </ul>	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> ) 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ) 1x (20 ... 14), 2x (20 ... 16) 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
<b>Ambient conditions</b>	
<b>installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• 1 maximum</li> <li>• 2 maximum</li> <li>• 3 maximum</li> </ul>	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
<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><li>during transport</li></ul>	-40 ... +80 °C -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						
relative humidity during operation	5 ... 95 %						
<b>contact rating of auxiliary contacts according to UL</b>	B300 / R300						
<b>Short-circuit protection</b>							
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)						
<b>Safety related data</b>							
<b>touch protection against electrical shock</b>	finger-safe						
<b>Galvanic isolation</b>							
<b>(electrically) protective separation acc. to IEC 60947-1</b>	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)						
<b>Control circuit/ Control</b>							
<b>type of voltage of the control supply voltage</b>	AC/DC						
<b>control supply voltage at AC</b>							
<ul style="list-style-type: none"><li>at 50 Hz rated value</li><li>at 60 Hz rated value</li></ul>	110 ... 240 V 110 ... 240 V						
<b>control supply voltage frequency 1</b>	50 ... 60 Hz						
<b>control supply voltage at DC</b>							
<ul style="list-style-type: none"><li>rated value</li></ul>	110 ... 240 V						
<b>operating range factor control supply voltage rated value at DC</b>							
<ul style="list-style-type: none"><li>initial value</li><li>full-scale value</li></ul>	0.85 1.1						
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>							
<ul style="list-style-type: none"><li>initial value</li><li>full-scale value</li></ul>	0.85 1.1						
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>							
<ul style="list-style-type: none"><li>initial value</li><li>full-scale value</li></ul>	0.85 1.1						
<b>Certificates/ approvals</b>							
<table><tr><td>General Product Approval</td><td>EMC</td><td>For use in hazardous locations</td></tr></table>		General Product Approval	EMC	For use in hazardous locations			
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<table><tr><td> EG-Konf.</td><td><a href="#">Miscellaneous</a></td><td><a href="#">Type Test Certificates/Test Report</a></td><td> ABS</td><td> RMRS</td><td> DNV GL</td></tr></table>		 EG-Konf.	<a href="#">Miscellaneous</a>	<a href="#">Type Test Certificates/Test Report</a>	 ABS	 RMRS	 DNV GL
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other							

**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=3UF7310-1AU00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7310-1AU00-0>

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

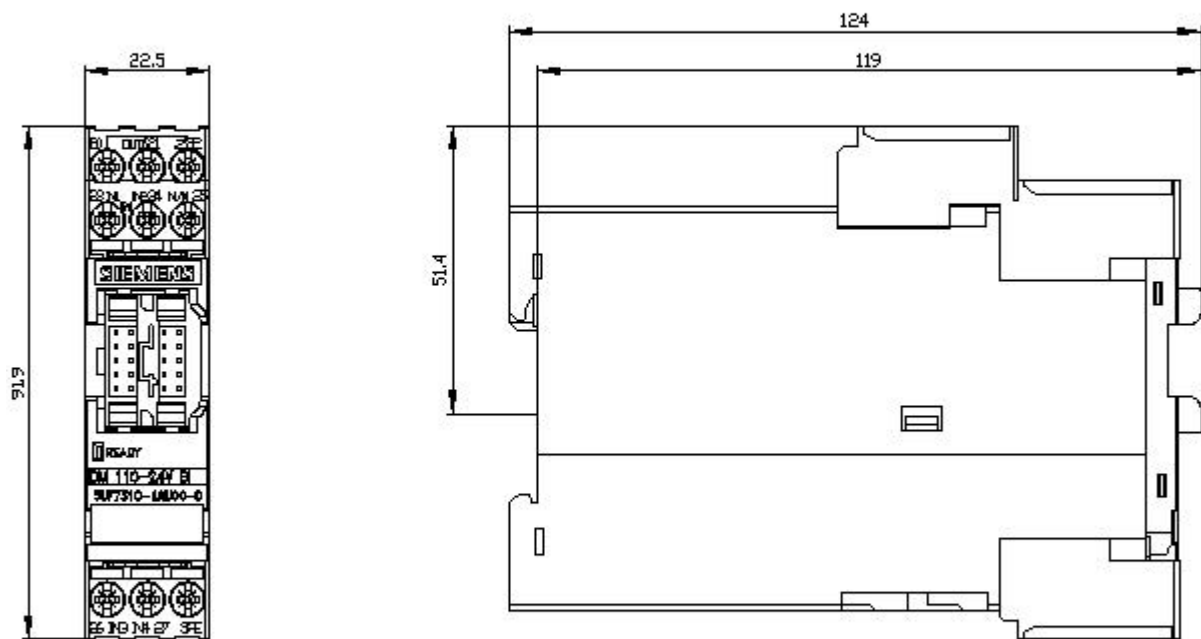
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7310-1AU00-0>

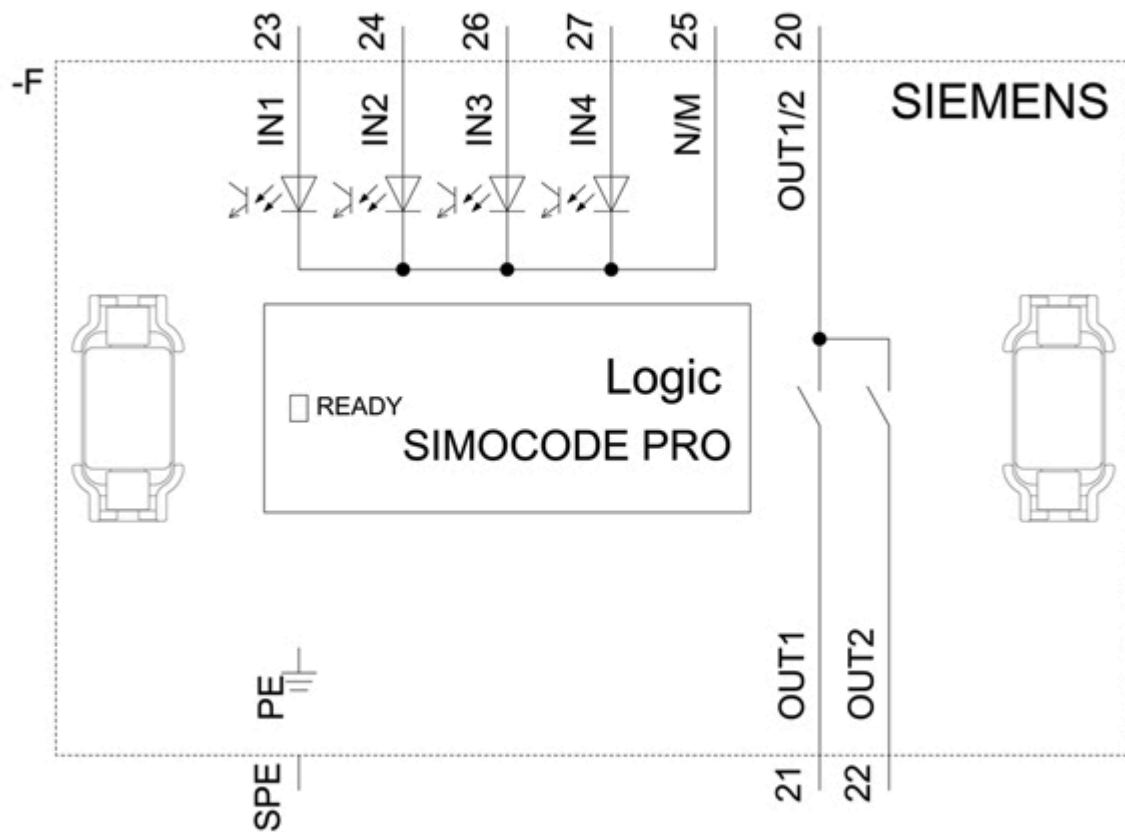
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7310-1AU00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7310-1AU00-0&lang=en)

Test report No. A0258, protective separation

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





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