

basic unit SIMOCODE pro V PN GP , Ethernet/PROFINET IO, PN system redundancy, OPC UA server, web server, transfer rate 100 Mbps, 2 x bus connection via RJ45, 4I/3O freely parameterizable, US: 24 V DC, input for thermistor connection monostable relay outputs, expandable by 1 expansion module(DM, TM, EM) firmware version V3.0.0

General technical data	
<b>product function</b>	
• current measurement	No
• voltage measurement	No
• active power measurement	No
• energy measurement	No
• frequency measurement	No
• bus communication	Yes
• data acquisition function	Yes
• diagnostics function	Yes
• password protection	Yes
• test function	Yes
• maintenance function	Yes
<b>product component</b>	
• input for thermistor connection	Yes
• digital input	Yes
• input for analog temperature sensors	No
• input for ground fault detection	No
• relay output	Yes
<b>product extension</b>	
• temperature monitoring module	Yes
• current measuring module	Yes
• current/voltage measuring module	No
• fail-safe digital I/O module	No
• ground-fault monitoring module	Yes
• decoupling module	No
• analog I/O module	No
• digital I/O module with monostable outputs	Yes
• digital I/O module with bistable outputs	No
• control unit with display	No
• control unit	Yes
<b>consumed active power</b>	3.6 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
<b>surge voltage resistance rated value</b>	4 000 V
<b>shock resistance</b>	
• according to IEC 60068-2-27	15 g / 11 ms
• vibration resistance	1 ... 6 Hz / 15 mm; 6 ... 500 Hz / 2 g
<b>switching capacity current of the NO contacts of the relay outputs at AC-15</b>	
• at 24 V	6 A
• at 120 V	6 A
• at 230 V	3 A
<b>switching capacity current of the NO contacts of the relay outputs at DC-13</b>	
• at 24 V	2 A
• at 60 V	0.55 A
• at 125 V	0.25 A

<b>mechanical service life (operating cycles) typical</b>	10 000 000
electrical endurance (operating cycles) typical	100 000
<b>buffering time in the event of power failure</b>	0.02 s
<b>reference code according to IEC 81346-2</b>	F
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
<b>type of input characteristic</b>	Type 1 in accordance with EN 61131-2
<b>Substance Prohibition (day/month/year)</b>	08/31/2018
<b>SVHC substance name</b>	Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 4,4'-isopropylidenediphenol (Bisphenol A, BPA) CAS-No. 80-05-7
<b>Net Weight</b>	0.344 kg
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
<b>conducted interference</b> <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> <li>• due to high-frequency radiation according to IEC 61000-4-6</li> </ul>	2 kV (power ports) / 1 kV (signal ports) 2 kV 1 kV 10 V
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>conducted HF interference emissions according to CISPR11</b>	corresponds to degree of severity A
<b>field-bound HF interference emission according 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> <ul style="list-style-type: none"> <li>• for thermistor connection</li> </ul>	4 1
number of digital inputs with a common reference potential	4
<b>digital input version</b> <ul style="list-style-type: none"> <li>• type 1 acc. to IEC 61131</li> </ul>	Yes
<b>input voltage at digital input at DC</b> <ul style="list-style-type: none"> <li>• rated value</li> </ul>	24 V
<b>number of outputs</b>	3
<b>number of semiconductor outputs</b>	0
<b>number of outputs as contact-affected switching element</b>	3
<b>switching behavior</b>	monostable
<b>number of relay outputs</b>	3
<b>type of relay outputs</b>	Monostable
<b>wire length for digital signals maximum</b>	300 m
<b>wire length for thermistor connection</b> <ul style="list-style-type: none"> <li>• with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>• with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>• with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	50 m 150 m 250 m
<b>Protective and monitoring functions</b>	
<b>product function</b> <ul style="list-style-type: none"> <li>• asymmetry detection</li> <li>• blocking current evaluation</li> <li>• power factor monitoring</li> <li>• ground fault detection</li> <li>• ground-fault monitoring</li> <li>• phase failure detection</li> <li>• phase sequence recognition</li> </ul>	Yes Yes No Yes No Yes No

• voltage detection	No
• monitoring of number of start operations	Yes
• overvoltage detection	No
• overcurrent detection 1 phase	Yes
• undervoltage detection	No
• undercurrent detection 1 phase	Yes
• active power monitoring	No
<b>product function</b>	
• current detection	Yes
• overload protection	Yes
• evaluation of thermistor motor protection	Yes
<b>total cold resistance number of sensors in series maximum</b>	1.5 k $\Omega$
<b>response value of thermoresistor</b>	3 400 ... 3 800 $\Omega$
• of the short-circuit control	9 $\Omega$
<b>release value of thermoresistor</b>	1 500 ... 1 650 $\Omega$
<b>Motor control functions</b>	
<b>product function</b>	
• parameterizable overload relay	Yes
• circuit breaker control	Yes
• direct start	Yes
• reverse starting	Yes
• star-delta circuit	Yes
• star-delta reversing circuit	No
• Dahlander circuit	No
• Dahlander reversing circuit	No
• pole-changing switch circuit	No
• pole-changing switch reversing circuit	No
• slide control	No
• valve control	No
<b>Communication/ Protocol</b>	
<b>protocol is supported</b>	
• PROFIBUS DP protocol	No
• PROFINET IO protocol	Yes
• PROFI-safe protocol	No
• Modbus RTU	No
• EtherNet/IP	No
• OPC UA Server	Yes
• LLDP	Yes
• Address Resolution Protocol (ARP)	Yes
• SNMP	Yes
• HTTPS	Yes
• NTP	Yes
• Media Redundancy Protocol (MRP)	Yes
<b>product function</b>	
• web server	Yes
• shared device	No
• at the Ethernet interface Autocrossover	Yes
• at the Ethernet interface Autonegotiation	Yes
• at the Ethernet interface Autosensing	Yes
• Media Redundancy Protocol for Planned Duplication (MRPD)	Yes
• is supported Device Level Ring (DLR)	No
• is supported PROFINET system redundancy (S2)	Yes
• supports PROFIenergy measured values	Yes
• supports PROFIenergy shutdown	Yes
<b>transfer rate</b>	100 Mbit/s
<b>transfer rate maximum</b>	100 Mbit/s
<b>PROFINET conformity class</b>	C
<b>identification &amp; maintenance function</b>	

<ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M2 - installation date</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• I&amp;M3 - comment</li> </ul>	Yes
type of electrical connection of the communication interface	2x RJ45
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting
<b>height</b>	111 mm
<b>width</b>	45 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
<b>Connections/ Terminals</b>	
<b>product component removable terminal for auxiliary and control circuit</b>	Yes
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control 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 ... 4.0mm <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>• for AWG cables solid</li> </ul>	1x (20 ... 12), 2x (20 ... 14)
<ul style="list-style-type: none"> <li>• for AWG cables stranded</li> </ul>	1x (20 ... 14), 2x (20 ... 16)
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>	
installation altitude at height above sea level maximum	2 000 m
<ul style="list-style-type: none"> <li>• note</li> </ul>	Restrictions apply to higher installation altitudes, see: <a href="https://support.industry.siemens.com/cs/document/109995153">https://support.industry.siemens.com/cs/document/109995153</a>
<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 according to IEC 60721</li> </ul>	3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> <li>• during storage according to IEC 60721</li> </ul>	1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
<ul style="list-style-type: none"> <li>• during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2
<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
<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 <sub>K</sub> < 500 A)
<b>Electrical Safety</b>	
<b>touch protection against electrical shock</b>	finger-safe
<b>ATEX</b>	
<b>certificate of suitability</b>	
<ul style="list-style-type: none"> <li>• according to ATEX directive 2014/34/EU</li> </ul>	BVS 06 ATEX F001
<ul style="list-style-type: none"> <li>• according to UKCA</li> </ul>	ITS21UKEX0464
<b>Galvanic isolation</b>	
<b>(electrically) protective separation according 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>design of the electrical isolation</b>	Protective separation in accordance with IEC 60947-1 for all circuits
<ul style="list-style-type: none"> <li>• note</li> </ul>	Test report No. A0258 must be observed ( <a href="https://support.industry.siemens.com/cs/document/109748152">https://support.industry.siemens.com/cs/document/109748152</a> )

Control circuit/ Control	
product function soft starter control	Yes
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.2
inrush current peak	
• at 24 V	17 A
duration of inrush current peak	
• at 24 V	1.1 ms

### Approvals Certificates

Environment	General Product Approval
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[Environmental Con-  
firmations](#)



General Product Approval	EMV	For use in hazardous locations
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For use in hazardous locations	Test Certificates	Maritime application
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Maritime application	other
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[Confirmation](#)



[Confirmation](#)

### Industrial Communication



[PROFINET](#)

### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3UF7011-1AB00-1-Z I41>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7011-1AB00-1-Z I41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7011-1AB00-1-Z I41>

last modified:

4/4/2026 