



basic device SIMOCODE pro V MR, MODBUS RTU interface 57.6 Kbps, RS-485, 4 I/3 O freely configurable, Us: 110...240 V AC/DC, input for thermistor connection monostable relay outputs, expandable by expansion modules

|                                                                 |                         |
|-----------------------------------------------------------------|-------------------------|
| <b>product brand name</b>                                       | SIMOCODE                |
| <b>product designation</b>                                      | Motor management system |
| <b>design of the product</b>                                    | basic unit 2            |
| <b>product type designation</b>                                 | pro V MR                |
| <b>General technical data</b>                                   |                         |
| <b>product function</b>                                         |                         |
| • current measurement                                           | No                      |
| • voltage measurement                                           | No                      |
| • active power measurement                                      | Yes                     |
| • 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                     |
| • MRRT redundancy procedure                                     | No                      |
| <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                              | Yes                     |
| • fail-safe digital I/O module                                  | Yes                     |
| • ground-fault monitoring module                                | Yes                     |
| • decoupling module                                             | Yes                     |
| • analog I/O module                                             | Yes                     |
| • digital I/O module with monostable outputs                    | Yes                     |
| • digital I/O module with bistable outputs                      | Yes                     |
| • control unit with display                                     | Yes                     |
| • control unit                                                  | Yes                     |
| <b>apparent power consumption</b>                               | 8.3 VA                  |
| <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                                                                                                                                                                       |
| • <b>vibration resistance</b>                                                      | 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>                                | 0.2 s                                                                                                                                                                              |
| <b>reference code according to IEC 81346-2</b>                                     | F                                                                                                                                                                                  |
| continuous current of the NO contacts of the relay outputs                         |                                                                                                                                                                                    |
| • at 50 °C                                                                         | 6 A                                                                                                                                                                                |
| • at 60 °C                                                                         | 5 A                                                                                                                                                                                |
| <b>type of input characteristic</b>                                                | Type 1 in accordance with EN 61131-2                                                                                                                                               |
| <b>Substance Prohibitance (day/month/year)</b>                                     | 05/01/2012                                                                                                                                                                         |
| <b>SVHC substance name</b>                                                         | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1 |
| <b>Net Weight</b>                                                                  | 0.358 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>                                                      |                                                                                                                                                                                    |
| • due to burst according to IEC 61000-4-4                                          | 2 kV (power ports) / 1 kV (signal ports)                                                                                                                                           |
| • 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 61000-4-6                       | 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>                                                            |                                                                                                                                                                                    |
| • parameterizable inputs                                                           | Yes                                                                                                                                                                                |
| • parameterizable outputs                                                          | Yes                                                                                                                                                                                |
| <b>number of inputs</b>                                                            | 4                                                                                                                                                                                  |
| • for thermistor connection                                                        | 1                                                                                                                                                                                  |
| number of digital inputs with a common reference potential                         | 4                                                                                                                                                                                  |
| <b>digital input version</b>                                                       |                                                                                                                                                                                    |
| • type 1 acc. to IEC 61131                                                         | Yes                                                                                                                                                                                |
| <b>input voltage at digital input at DC</b>                                        |                                                                                                                                                                                    |
| • rated value                                                                      | 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>                 |            |
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum | 50 m       |
| • with conductor cross-section = 1.5 mm <sup>2</sup> maximum | 150 m      |
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum | 250 m      |

### Protective and monitoring functions

|                                            |     |
|--------------------------------------------|-----|
| <b>product function</b>                    |     |
| • asymmetry detection                      | Yes |
| • blocking current evaluation              | Yes |
| • power factor monitoring                  | Yes |
| • ground fault detection                   | Yes |
| • ground-fault monitoring                  | No  |
| • phase failure detection                  | Yes |
| • phase sequence recognition               | Yes |
| • voltage detection                        | Yes |
| • monitoring of number of start operations | Yes |
| • overvoltage detection                    | Yes |
| • overcurrent detection 1 phase            | Yes |
| • undervoltage detection                   | Yes |
| • undercurrent detection 1 phase           | Yes |
| • active power monitoring                  | Yes |

|                                             |     |
|---------------------------------------------|-----|
| <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 kΩ |
|------------------------------------------------------------------|--------|

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>response value of thermoresistor</b> | 3 400 ... 3 800 Ω |
| • of the short-circuit control          | 9 Ω               |

|                                        |                   |
|----------------------------------------|-------------------|
| <b>release value of thermoresistor</b> | 1 500 ... 1 650 Ω |
|----------------------------------------|-------------------|

### Motor control functions












|                                          |     |
|------------------------------------------|-----|
| <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           | Yes |
| • Dahlander circuit                      | Yes |
| • Dahlander reversing circuit            | Yes |
| • pole-changing switch circuit           | Yes |
| • pole-changing switch reversing circuit | Yes |
| • slide control                          | Yes |
| • valve control                          | Yes |

### Communication/ Protocol

|                                     |     |
|-------------------------------------|-----|
| <b>protocol is supported</b>        |     |
| • PROFIBUS DP protocol              | No  |
| • PROFINET IO protocol              | No  |
| • PROFI-safe protocol               | No  |
| • Modbus RTU                        | Yes |
| • EtherNet/IP                       | No  |
| • OPC UA Server                     | No  |
| • LLDP                              | No  |
| • Address Resolution Protocol (ARP) | No  |
| • SNMP                              | No  |
| • HTTPS                             | No  |
| • NTP                               | No  |
| • Media Redundancy Protocol (MRP)   | No  |

|                         |  |
|-------------------------|--|
| <b>product function</b> |  |
|-------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• web server</li> <li>• shared device</li> <li>• at the Ethernet interface Autocrossover</li> <li>• at the Ethernet interface Autonegotiation</li> <li>• at the Ethernet interface Autosensing</li> <li>• is supported Device Level Ring (DLR)</li> <li>• is supported PROFINET system redundancy (S2)</li> <li>• supports PROFINET energy measured values</li> <li>• supports PROFINET energy shutdown</li> </ul> | No                                                                                                                                                                                                                                                                                          |
| <b>transfer rate maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.057 Mbit/s                                                                                                                                                                                                                                                                                |
| <b>identification &amp; maintenance function</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> <li>• I&amp;M1 - higher level designation/location designation</li> <li>• I&amp;M2 - installation date</li> <li>• I&amp;M3 - comment</li> </ul>                                                                                                                                                                                                                      | Yes                                                                                                                                                                                                                                                                                         |
| type of electrical connection of the communication interface                                                                                                                                                                                                                                                                                                                                                                                              | 9-pin D-sub socket (57.6 Kbit) / screw terminal (57.6 Kbit)                                                                                                                                                                                                                                 |
| <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> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>                                                                                                                                                                                                                                                                                                                                                | 40 mm<br>40 mm<br>0 mm<br>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> <li>• finely stranded with core end processing</li> <li>• for AWG cables solid</li> <li>• for AWG cables stranded</li> </ul>                                                                                                                                                                                                                                                                          | 1x (0.5 ... 4.0mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )<br>1x (20 ... 12), 2x (20 ... 14)<br>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>type of connectable conductor cross-sections for PROFIBUS wire</b>                                                                                                                                                                                                                                                                                                                                                                                     | 2x 0.34 mm <sup>2</sup> , AWG 22                                                                                                                                                                                                                                                            |
| <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:<br><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> <li>• during storage</li> <li>• during transport</li> </ul>                                                                                                                                                                                                                                                                                                                                | -25 ... +60 °C<br>-40 ... +80 °C<br>-40 ... +80 °C                                                                                                                                                                                                                                          |
| <b>environmental category</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• during operation according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport 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<br>1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4<br>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> <li>• acc. to Equipment and Protective System Intended for Use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016 No.1107)</li> <li>• according to UKCA</li> </ul>                                                                                                                                                                                                                                                       | BVS 06 ATEX F001<br>ITS21UKEX0464, ITS21UKEX0455X<br><br>ITS21UKEX0464, ITS21UKEX0455X                                                                                                                 |                                       |
| <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<br>( <a href="https://support.industry.siemens.com/cs/document/109748152">https://support.industry.siemens.com/cs/document/109748152</a> )                      |                                       |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |                                       |
| <b>product function soft starter control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                                                                                                                                    |                                       |
| <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<br>110 ... 240 V                                                                                                                                                                         |                                       |
| <b>control supply voltage frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                        |                                       |
| <ul style="list-style-type: none"> <li>• 1 rated value</li> <li>• 2 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50 Hz<br>60 Hz                                                                                                                                                                                         |                                       |
| <b>relative symmetrical tolerance of the control supply voltage frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 %                                                                                                                                                                                                    |                                       |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 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<br>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<br>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<br>1.1                                                                                                                                                                                            |                                       |
| <b>inrush current peak</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        |                                       |
| <ul style="list-style-type: none"> <li>• at 240 V</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15 A                                                                                                                                                                                                   |                                       |
| <b>duration of inrush current peak</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                        |                                       |
| <ul style="list-style-type: none"> <li>• at 240 V</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 ms                                                                                                                                                                                                   |                                       |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                        |                                       |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>General Product Approval</b>                                                                                                                                                                        |                                       |
| <a href="#">Environmental Confirmations</a><br>                                          |                                                                                                                                                                                                        |                                       |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>EMV</b>                                                                                                                                                                                             | <b>For use in hazardous locations</b> |
|       |                                                                                                                                                                                                        |                                       |
| <b>For use in hazardous locations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Test Certificates</b>                                                                                                                                                                               |                                       |



IECEX



ATEX

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

Maritime application

other



ABS



DNV



LRS



RMRS



[Confirmation](#)

other

Industrial Communication

[Confirmation](#)



Profibus

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=3UF7012-1AU00-0>

Cax online generator

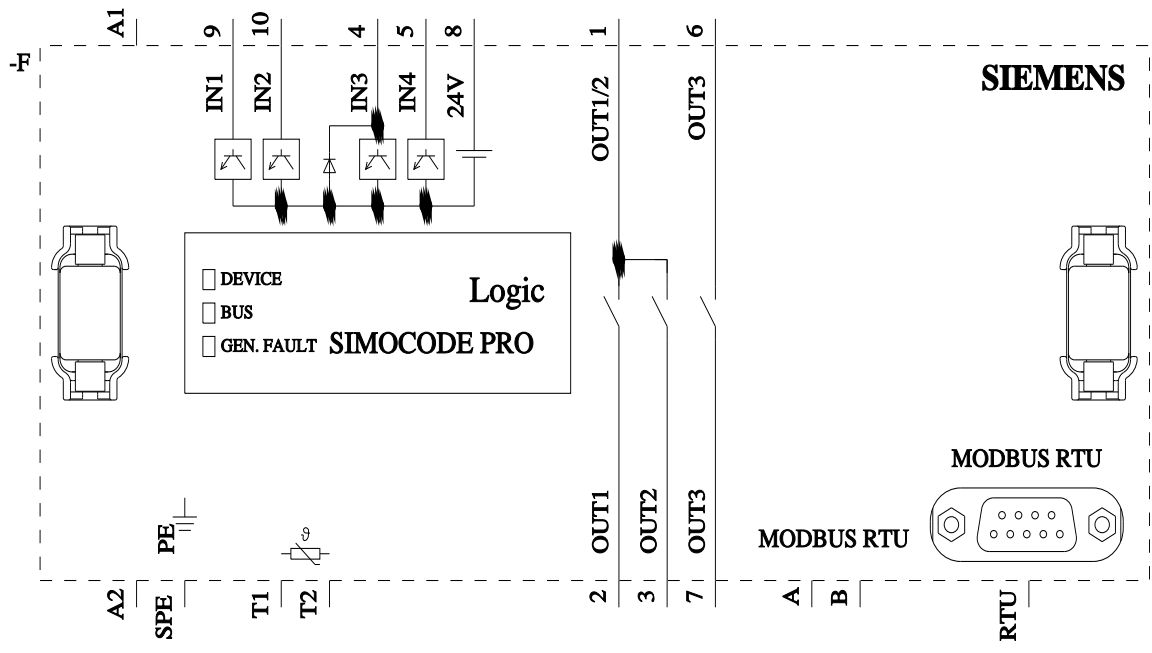
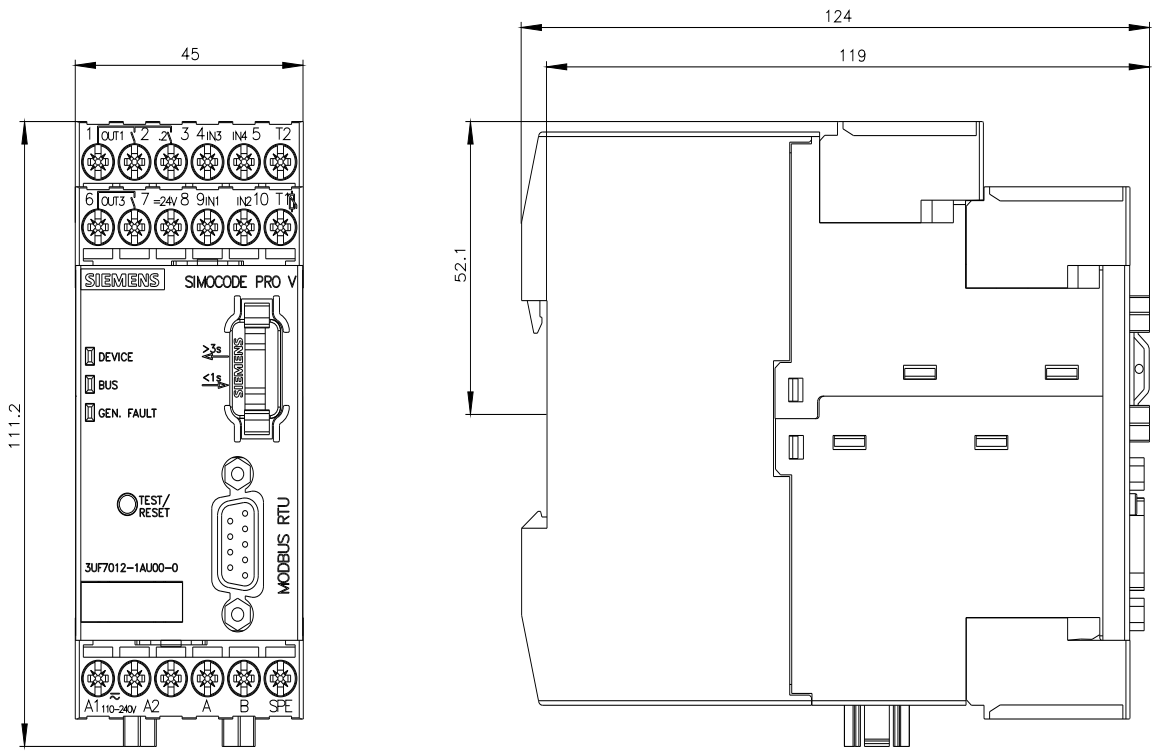
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7012-1AU00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7012-1AU00-0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7012-1AU00-0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7012-1AU00-0&lang=en)



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