



SIPLUS HCS4200 CIM4210 central interface module with PROFIBUS communication

| General information                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                                                                                                                                                                                                                                                                                                                                             | CIM4210 PROFIBUS                                                                                                                               |
| Installation type/mounting                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |
| Mounting type                                                                                                                                                                                                                                                                                                                                                                        | Screw mounting to rack                                                                                                                         |
| Mounting position                                                                                                                                                                                                                                                                                                                                                                    | vertical                                                                                                                                       |
| Type of ventilation                                                                                                                                                                                                                                                                                                                                                                  | Forced ventilation                                                                                                                             |
| Supply voltage                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |
| Type of supply voltage                                                                                                                                                                                                                                                                                                                                                               | DC                                                                                                                                             |
| Rated value (DC)                                                                                                                                                                                                                                                                                                                                                                     | 24 V                                                                                                                                           |
| relative symmetrical tolerance of the supply voltage                                                                                                                                                                                                                                                                                                                                 | 20 %                                                                                                                                           |
| Connection method                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |
| <ul style="list-style-type: none"> <li>Design of electrical connection for supply voltage                             <ul style="list-style-type: none"> <li>Connectable conductor cross-sections, solid</li> <li>Connectable conductor cross-sections, finely stranded with wire end processing</li> <li>Connectable conductor cross-sections for AWG cables</li> </ul> </li> </ul> | plug, 2x 2-pole with spring-type terminal, push-in<br>1x (0.2 ... 2.5 mm <sup>2</sup> )<br>1x (0.2 ... 2.5 mm <sup>2</sup> )<br>1x (26 ... 12) |
| Power                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |
| Active power input                                                                                                                                                                                                                                                                                                                                                                   | 3 W                                                                                                                                            |
| Hardware configuration                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |
| Type of power output connectable                                                                                                                                                                                                                                                                                                                                                     | POM4220                                                                                                                                        |
| Slots                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |
| <ul style="list-style-type: none"> <li>Number of slots</li> </ul>                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                              |
| Interfaces                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |
| Interfaces/bus type                                                                                                                                                                                                                                                                                                                                                                  | PROFIBUS DP                                                                                                                                    |
| Transmission rate, max.                                                                                                                                                                                                                                                                                                                                                              | 12 Mbit/s                                                                                                                                      |
| PROFIBUS DP                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |
| <ul style="list-style-type: none"> <li>Design of electrical connection</li> </ul>                                                                                                                                                                                                                                                                                                    | 9-pin sub D socket                                                                                                                             |
| Protocols                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |
| Supports protocol for PROFINET IO                                                                                                                                                                                                                                                                                                                                                    | No                                                                                                                                             |
| PROFIBUS DP                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                            |
| EtherNet/IP                                                                                                                                                                                                                                                                                                                                                                          | No                                                                                                                                             |
| Interrupts/diagnostics/status information                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |
| Number of status displays                                                                                                                                                                                                                                                                                                                                                            | 3                                                                                                                                              |
| LED status display                                                                                                                                                                                                                                                                                                                                                                   | LED green = ready, LED yellow = heating on/off, LED red = error display                                                                        |
| Isolation                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |
| Overvoltage category                                                                                                                                                                                                                                                                                                                                                                 | III                                                                                                                                            |
| Degree of pollution                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                              |
| EMC                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |
| EMC interference emission                                                                                                                                                                                                                                                                                                                                                            | Limit value in accordance with IEC 61000-6-4:2007 + A1:2011                                                                                    |

|                                                                                                |                                                                                         |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Electrostatic discharge acc. to IEC 61000-4-2                                                  | 4 kV contact discharging, 8 kV air discharging                                          |
| Field-related interference acc. to IEC 61000-4-3                                               | 10 V/m (80 ... 1 000 MHz), 3 V/m (1.4 ... 2.0 GHz), 1 V/m (2.0 ... 2.7 GHz)             |
| Conducted interference due to burst acc. to IEC 61000-4-4                                      | 2 kV power supply lines / 2 kV PROFIBUS cables                                          |
| Conducted interference due to surge acc. to IEC 61000-4-5                                      | DC supply lines: 0.5 kV symmetrical and asymmetrical, PROFIBUS lines: 1 kV asymmetrical |
| Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6                   | 10 V (0.15 ... 80 MHz)                                                                  |
| <b>Degree and class of protection</b>                                                          |                                                                                         |
| IP degree of protection                                                                        | IP20                                                                                    |
| <b>Standards, approvals, certificates</b>                                                      |                                                                                         |
| CE mark                                                                                        | Yes                                                                                     |
| UL approval                                                                                    | Yes                                                                                     |
| RCM (formerly C-TICK)                                                                          | Yes                                                                                     |
| EAC (formerly Gost-R)                                                                          | Yes                                                                                     |
| China RoHS compliance                                                                          | Yes                                                                                     |
| reference designation according to IEC 81346-2 (2009)                                          | K                                                                                       |
| <b>Ambient conditions</b>                                                                      |                                                                                         |
| Ambient temperature during operation                                                           |                                                                                         |
| • min.                                                                                         | 0 °C                                                                                    |
| • max.                                                                                         | 55 °C                                                                                   |
| Ambient temperature during storage/transportation                                              |                                                                                         |
| • Storage, min.                                                                                | -25 °C                                                                                  |
| • Storage, max.                                                                                | 70 °C                                                                                   |
| • Transportation, min.                                                                         | -25 °C                                                                                  |
| • Transportation, max.                                                                         | 70 °C                                                                                   |
| Air pressure acc. to IEC 60068-2-13                                                            |                                                                                         |
| • Operation, min.                                                                              | 860 hPa                                                                                 |
| • Operation, max.                                                                              | 1 080 hPa                                                                               |
| • Storage, min.                                                                                | 660 hPa                                                                                 |
| • Storage, max.                                                                                | 1 080 hPa                                                                               |
| Altitude during operation relating to sea level                                                |                                                                                         |
| • Installation altitude above sea level, max.                                                  | 2 000 m                                                                                 |
| Relative humidity                                                                              |                                                                                         |
| • Operation at 25 °C, max.                                                                     | 95 %                                                                                    |
| • Operation at 50 °C, max.                                                                     | 50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C                               |
| Vibrations                                                                                     |                                                                                         |
| • Vibration resistance during operation acc. to IEC 60068-2-6                                  | 10 ... 58 Hz / 0.075 mm, 58 ... 150 Hz / 1 g                                            |
| • Vibration resistance during storage acc. to IEC 60068-2-6                                    | 5 ... 8.5 Hz / 3.5 mm, 8.5 ... 500 Hz / 1 g                                             |
| Shock testing                                                                                  |                                                                                         |
| • Shock resistance during operation acc. to IEC 60068-2-27                                     | 15 g / 11 ms / 3 shocks/axis                                                            |
| • Shock resistance during storage acc. to IEC 60068-2-29                                       | 25 g / 6 ms / 1 000 shocks/axis                                                         |
| <b>Dimensions</b>                                                                              |                                                                                         |
| Width                                                                                          | 43 mm                                                                                   |
| Height                                                                                         | 285 mm                                                                                  |
| Depth                                                                                          | 136 mm                                                                                  |
| <b>last modified:</b>                                                                          |                                                                                         |
| 10/18/2021  |                                                                                         |