SIEMENS

## Data sheet 6BK1900-0BA00-0AA0



***spare part*** SIPLUS HCS4000 I/O module DI/DQ with 8 digital outputs and 8 configurable digital inputs or outputs

| | |
|---|---|
| **General information** | |
| Product type designation | PM4000 DI/DO |
| **Installation type/mounting** | |
| Mounting type | Screw mounting to CIM |
| Mounting position | vertical |
| Type of ventilation | Forced ventilation |
| **Supply voltage** | |
| Design of the power supply | Power supply via CIM |
| **Power** | |
| Active power input, max. | 1 W |
| **Digital inputs** | |
| Number of digital inputs | 8 |
| Connection method | |
| ● Design of electrical connection at the digital inputs | plug, 18-pin with spring-type terminal, push-in |
| — Connectable conductor cross-sections, solid | 1x (0.2 ... 1.5 mm²) |
| — Connectable conductor cross-sections, finely stranded with wire end processing | 1x (0.25 ... 1.5 mm²) |
| — Connectable conductor cross-sections for AWG cables | 1x (24 ... 16) |
| **Digital outputs** | |
| Type of digital output | semiconductor output (high side switch) |
| Number of digital outputs | 16 |
| Switching performance | monostable |
| short-circuit proof | Yes |
| Output voltage | |
| ● Type of output voltage | DC |
| ● Rated value (DC) | 24 V |
| ● permissible voltage at output, min. | 19.2 V |
| ● permissible voltage at output, max. | 28.8 V |
| Output current | |
| ● for signal "1" permissible range, max. | 500 mA |
| Connection method | |
| ● Design of electrical connection at the digital outputs | plug, 18-pin with spring-type terminal, push-in |
| — Connectable conductor cross-sections, solid | 1x (0.2 ... 1.5 mm²) |
| — Connectable conductor cross-sections, finely stranded with wire end processing | 1x (0.25 ... 1.5 mm²) |
| — Connectable conductor cross-sections for AWG cables | 1x (24 ... 16) |
| ● Design of electrical connection for control supply voltage | plug, 18-pin with spring-type terminal, push-in |
| — Connectable conductor cross-sections with wire end | 1x (0.25 ... 1.5 mm²) |


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| | |
|---|---|
| processing | |
| — Connectable conductor cross-sections for AWG cables | 1x (24 ... 16) |
| **Interfaces** | |
| Interfaces/bus type | system interface |
| **Interrupts/diagnostics/status information** | |
| Number of status displays | 18 |
| LED status display | LED green = Ready, LED red = Error display, 1 LED yellow per output: LED on - H status; LED off -L status |
| **Potential separation** | |
| between outputs and system interface | Yes |
| **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 discharge / 8 kV air discharge |
| 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 signal lines |
| Conducted interference due to surge acc. to IEC 61000-4-5 | DC supply cables: 0.5 kV balanced and unbalanced |
| Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6 | 10 V (0.15 ... 80 MHz) |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| China RoHS compliance | Yes |
| reference designation according to IEC 81346-2 (2009) | K |
| **Ambient conditions** | |
| 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 |
| **Dimensions** | |


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| | |
|---|---|
| Width | 27 mm |
| Height | 141 mm |
| Depth | 110 mm |

## Classifications

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-40-04 |
| eClass | 14 | 27-24-40-04 |
| eClass | 12 | 27-24-40-04 |
| eClass | 9.1 | 27-24-40-04 |
| eClass | 9 | 27-24-40-04 |
| eClass | 8 | 27-24-26-04 |
| eClass | 7.1 | 27-24-26-04 |
| eClass | 6 | 27-24-26-04 |
| ETIM | 10 | EC002984 |
| ETIM | 9 | EC002984 |
| ETIM | 8 | EC002984 |
| ETIM | 7 | EC002984 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

**General Product Approval**

**EMV**

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