

LOGO! logic modules



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LOGO! logic modules

Introduction

LOGO! logic modules

Overview



LOGO! logic modules

- The compact, easy-to-use and low-cost solution for simple control tasks
- Compact, easy to operate, universally applicable without accessories
- "All in one": Integrated display and operator panel
- 36 different functions can be connected at the press of a button or by means of PC software; up to 130 times
- LOGO! 8: 38/43 different functions can be linked at the press of a button or using PC software; up to 200/400 times
- Functions are easy to change at the press of a button. No more time-consuming rewiring

SIPLUS LOGO!

- The controller for use in the toughest environmental conditions
- With extended temperature range from -40/-25 °C to +70 °C
- Suitable for exposure to media (harmful gas atmosphere)
- Condensation permissible
- With the proven PLC technology of LOGO!
- Easy to handle, program, maintain, and service
- Ideal for use in automotive engineering, environmental engineering, mining, chemical plants, material handling, food industry, etc.

Accessories:

- The front panel mounting set also allows simple and reliable installation of the logic modules in front panels; IP65 protection is thus possible.
- In order to ensure dependable operation of SIPLUS devices supplied by the battery in conjunction with combustion engines, it is necessary to put in a SIPLUS upmiter upstream device between the battery and the SIPLUS LOGO!.

For more information, please go to:

<http://www.siemens.com/siplus-extreme>

General technical specifications SIPLUS LOGO!

| | |
|---------------------------|---|
| Ambient temperature range | -40/-25 ... +70 °C |
| Conformal coating | Coating of the printed circuit boards and the electronic components |
| Technical data | The technical data of the standard product applies except for the ambient conditions. |

Ambient conditions

| | |
|--|---|
| Extended range of environmental conditions | |
| <ul style="list-style-type: none"> • with reference to ambient temperature, air pressure and altitude | Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m) |
| <ul style="list-style-type: none"> • At cold restart, min. | 0° C |
| Relative humidity | |
| <ul style="list-style-type: none"> • with condensation, max. | 100 %; RH incl. bedewing/frost (no commissioning in bedewed state) |
| Resistance | |
| <ul style="list-style-type: none"> • to biologically active substances/ compliance with EN 60721-3-3 | Yes; Class 3B2 mold and fungal spores (except fauna); the supplied plug covers must remain in place on the unused interfaces during operation. |
| <ul style="list-style-type: none"> • to chemically active substances/ compliance with EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation. |
| <ul style="list-style-type: none"> • to mechanically active substances, compliance with EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust; the supplied plug covers must remain in place on unused interfaces during operation. |

Overview



- The space-saving basic variants
- Interface for the connection of expansion modules, up to 24 digital inputs, 20 digital outputs, 8 analog inputs and 8 analog outputs can be addressed
- All basic units with integrated web server
- Enclosure width 72 mm (4 MW)
- All basic units with Ethernet interface for communication with LOGO! 8, LOGO! TDE, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro CF cards

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Ordering data

| Ordering data | Article No. | Ordering data | Article No. |
|--|---------------------------|---|---------------------------|
| LOGO! 8 logic module | | Accessories | |
| LOGO! 24CE Supply voltage 24 V DC, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integrated time switch, Ethernet interface; 400 function blocks can be interlinked, modular expansion capability | 6ED1052-1CC08-0BA1 | LOGO! 8 Text Display HMI 6-line text display, can be connected to all LOGO! 8 variants with and without display, with 2 Ethernet interfaces; incl. installation accessories. Requires additional 12 V DC or 24 V AC/DC power supply | 6ED1055-4MH08-0BA1 |
| LOGO! 12/24RCE Supply voltage 12...24 V DC, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V) 4 relay outputs 10 A, integrated time switch, Ethernet interface; 400 function blocks can be interlinked, modular expansion capability | 6ED1052-1MD08-0BA1 | LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD | 6ED1058-0BA08-0YA1 |
| LOGO! 24RCE Supply voltage 24 V AC/DC, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integrated time switch, Ethernet interface; 400 function blocks can be interlinked, modular expansion capability | 6ED1052-1HB08-0BA1 | LOGO! Starter Kits In TANOS Box, with LOGO! Soft Comfort V8, WinCC Basic, Ethernet cable | |
| LOGO! 230RCE Supply voltage 115...230 V AC/DC, 8 digital inputs 115...230 V AC/DC, 4 relay outputs 10 A, integrated time switch, Ethernet interface; 400 function blocks can be interlinked, modular expansion capability | 6ED1052-1FB08-0BA1 | LOGO! Starter Kit 12/24 RCE With LOGO! 12/24 RCE, power supply, screwdriver, in Systainer | 6ED1057-3BA01-0AA8 |
| | | LOGO! Starter Kit 130 RCE With LOGO! 230 RCE, power supply, screwdriver, in Systainer | 6ED1057-3BA03-0AA8 |
| | | LOGO! Starter Kit 12/24 V With LOGO! 12/24 RCEO, LOGO! TD, power supply, screwdriver, in Systainer | 6ED1057-3BA11-0AA8 |
| | | LOGO! 8 KP300 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KP300 Basic mono PN | 6AV2132-0HA00-0AA1 |
| | | LOGO! 8 KTP400 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP400 Basic | 6AV2132-0KA00-0AA1 |
| | | LOGO! 8 KTP700 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP700 Basic | 6AV2132-3GB00-0AA1 |
| | | Front panel mounting set Width 4 MW, with keys | 6AG1057-1AA00-0AA3 |
| | | Width 8 MW, with keys | 6AG1057-1AA00-0AA2 |

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! basic modules with display

Technical specifications

| Article number | 6ED1052-1CC08-0BA1 LOGO! 24CE, 8DI(4AI)/4DO, 400 Blocks | 6ED1052-1MD08-0BA1 LOGO!12/24RCE, 8DI(4AI)/4DO, 400 Blocks | 6ED1052-1HB08-0BA1 LOGO! 24RCE, 8DI/4DO, 400 Blocks | 6ED1052-1FB08-0BA1 LOGO!230RCE, 8DI/4DO, 400 Blocks |
|---|--|--|--|--|
| Display | | | | |
| with display | Yes | Yes | Yes | Yes |
| Installation type/mounting | | | | |
| Mounting | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide |
| Supply voltage | | | | |
| Rated value (DC) | | | | |
| • 12 V DC | | Yes | | |
| • 24 V DC | Yes | Yes | Yes | |
| • 115 V DC | | | | Yes |
| • 230 V DC | | | | Yes; 240 V DC |
| Rated value (AC) | | | | |
| • 24 V AC | | | Yes | |
| • 115 V AC | | | | Yes |
| • 230 V AC | | | | Yes; 240 V AC |
| Time of day | | | | |
| Time switching clocks | | | | |
| • Number | 400; Max. 400, function-specific | 400; Max. 400, function-specific | 400; Max. 400, function-specific | 400; Max. 400, function-specific |
| • Power reserve | 480 h | 480 h | 480 h | 480 h |
| Digital inputs | | | | |
| Number of digital inputs | 8; Of which 4 can be used in analog mode (0 to 10 V) | 8; Of which 4 can be used in analog mode (0 to 10 V) | 8 | 8 |
| Digital outputs | | | | |
| Number of digital outputs | 4; Transistor | 4; Relays | 4; Relays | 4; Relays |
| Short-circuit protection | Yes; electrical (1 A) | No; external fusing necessary | No; external fusing necessary | No; external fusing necessary |
| Output current | | | | |
| • for signal "1" permissible range for 0 to 55 °C, max. | 0.3 A | 10 A | | |
| Relay outputs | | | | |
| Switching capacity of contacts | | | | |
| - with inductive load, max. | | 3 A | 3 A | 3 A |
| - with resistive load, max. | | 10 A | 10 A | 10 A |
| EMC | | | | |
| Emission of radio interference acc. to EN 55 011 | | | | |
| • Limit class B, for use in residential areas | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B |
| Standards, approvals, certificates | | | | |
| CE mark | Yes | Yes | Yes | Yes |
| CSA approval | Yes | Yes | Yes | Yes |
| UL approval | Yes | Yes | Yes | Yes |
| FM approval | Yes | Yes | Yes | Yes |
| developed in acc. with IEC 61131 | Yes | Yes | Yes | Yes |
| according to VDE 0631 | Yes | Yes | Yes | Yes |
| Marine approval | Yes | Yes | Yes | Yes |
| Ambient conditions | | | | |
| Ambient temperature during operation | | | | |
| • min. | -20 °C; No condensation | -20 °C; No condensation | -20 °C; No condensation | -20 °C; No condensation |
| • max. | 55 °C | 55 °C | 55 °C | 55 °C |
| Altitude during operation relating to sea level | | | | |
| • Ambient air temperature- barometric pressure-altitude | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) |
| Dimensions | | | | |
| Width | 71.5 mm | 71.5 mm | 71.5 mm | 71.5 mm |
| Height | 90 mm | 90 mm | 90 mm | 90 mm |
| Depth | 60 mm | 60 mm | 60 mm | 60 mm |

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! basic modules without display

Overview



- Basic variants optimized for costs
- Interface for the connection of expansion modules, up to 24 digital inputs, 20 digital outputs, 8 analog inputs and 8 analog outputs can be addressed
- With connection option for LOGO! TDE text display
- All basic units with integrated web server
- Enclosure width 72 mm (4 MW)
- All basic units with Ethernet interface for communication with LOGO! 8, LOGO! TDE, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro CF cards

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Ordering data

Article No.

Article No.

LOGO! 8 logic module

LOGO! 24CEo logic module

24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integral time switch; Ethernet interface; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability

6ED1052-2CC08-0BA1

LOGO! 12/24RCEo logic module

12...24 V DC supply voltage, 8 digital inputs 12...24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 relay outputs 10 A, integrated time switch, Ethernet interface; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability

6ED1052-2MD08-0BA1

LOGO! 24RCEo logic module

24 V AC/DC supply voltage, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; Ethernet interface; without display or keyboard; 400 function blocks can be interlinked, modular expansion capability

6ED1052-2HB08-0BA1

LOGO! 230RCEo logic module

115...230 V AC/DC supply voltage, 8 digital inputs 115...230 V AC/DC, 4 relay outputs 10 A, integral time switch; Ethernet interface; without display or keyboard; 400 function blocks can be interlinked, modular expansion capability

6ED1052-2FB08-0BA1

Accessories

LOGO! TDE Text Display

6-line text display, can be connected to all LOGO! 8 variants with and without display, with 2 Ethernet interfaces; incl. installation accessories. Requires additional 12 V DC or 24 V AC/DC power supply

6ED1055-4MH08-0BA1

LOGO!Soft Comfort V8

For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD

6ED1058-0BA08-0YA1

LOGO! Starter Kits

In TANOS Box, with LOGO! Soft Comfort V8, WinCC Basic, Ethernet cable

LOGO! Starter Kit 12/24 RCE

With LOGO! 12/24 RCE, power supply, screwdriver, in Systainer

6ED1057-3BA01-0AA8

LOGO! Starter Kit 130 RCE

With LOGO! 230 RCE, power supply, screwdriver, in Systainer

6ED1057-3BA03-0AA8

LOGO! Starter Kit 12/24 V

With LOGO! 12/24 RCEO, LOGO! TD, power supply, screwdriver, in Systainer

6ED1057-3BA11-0AA8

LOGO! 8 KP300 Basic Starter Kit

With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KP300 Basic mono PN

6AV2132-0HA00-0AA1

LOGO! 8 KTP400 Basic Starter Kit

With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP400 Basic

6AV2132-0KA00-0AA1

LOGO! 8 KTP700 Basic Starter Kit

With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP700 Basic

6AV2132-3GB00-0AA1

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! basic modules without display

Technical specifications

| Article number | 6ED1052-2CC08-0BA1 | 6ED1052-2MD08-0BA1 | 6ED1052-2HB08-0BA1 | 6ED1052-2FB08-0BA1 |
|--|--|--|--|--|
| | LOGO! 24CEo, 8DI(4AI)/4DO, 400 Blocks | LOGO!12/24RCEO, 8DI(4AI)/4DO, 400 Blocks | LOGO! 24RCEO, 8DI/4DO, 400 Blocks | LOGO!230RCEO, 8DI/4DO, 400 Blocks |
| Installation type/mounting | | | | |
| Mounting | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide |
| Supply voltage | | | | |
| Rated value (DC) | | Yes | | |
| <ul style="list-style-type: none"> • 12 V DC • 24 V DC • 115 V DC • 230 V DC | Yes | Yes | Yes | Yes |
| Rated value (AC) | | | Yes | |
| <ul style="list-style-type: none"> • 115 V AC • 230 V AC | | | | Yes Yes; 240 V DC Yes Yes; 240 V AC |
| Time of day | | | | |
| Time switching clocks | | | | |
| <ul style="list-style-type: none"> • Number • Power reserve | 400; Max. 400, function-specific 480 h | 400; Max. 400, function-specific 480 h | 400; Max. 400, function-specific | 400; Max. 400, function-specific 480 h |
| Digital inputs | | | | |
| Number of digital inputs | 8; Of which 4 can be used in analog mode (0 to 10 V) | 8; Of which 4 can be used in analog mode (0 to 10 V) | 8 | 8 |
| Digital outputs | | | | |
| Number of digital outputs | 4; Transistor | 4; Relays | 4; Relays | 4; Relays |
| Short-circuit protection | Yes; electrical (1 A) | No; external fusing necessary | No; external fusing necessary | No; external fusing necessary |
| Output current | | | | |
| <ul style="list-style-type: none"> • for signal "1" permissible range for 0 to 55 °C, max. | 0.3 A | 10 A | | |
| Relay outputs | | | | |
| Switching capacity of contacts | | | | |
| - with inductive load, max. | | 3 A | 3 A | 3 A |
| - with resistive load, max. | | 10 A | 10 A | 10 A |
| EMC | | | | |
| Emission of radio interference acc. to EN 55 011 | | | | |
| <ul style="list-style-type: none"> • Limit class B, for use in residential areas | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B | Yes; Radio interference suppression according to EN55011, Limit Value Class B |
| Standards, approvals, certificates | | | | |
| CE mark | Yes | Yes | Yes | Yes |
| CSA approval | Yes | Yes | Yes | Yes |
| UL approval | Yes | Yes | Yes | Yes |
| FM approval | Yes | Yes | Yes | Yes |
| developed in accordance with IEC 61131 | Yes | Yes | Yes | Yes |
| according to VDE 0631 | Yes | Yes | Yes | Yes |
| Marine approval | Yes | Yes | Yes | Yes |
| Ambient conditions | | | | |
| Ambient temperature during operation | | | | |
| <ul style="list-style-type: none"> • min. • max. | -20 °C; No condensation 55 °C | -20 °C; No condensation 55 °C | -20 °C; No condensation 55 °C | -20 °C; No condensation 55 °C |
| Altitude during operation relating to sea level | | | | |
| <ul style="list-style-type: none"> • Ambient air temperature- barometric pressure-altitude | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) |
| Dimensions | | | | |
| Width | 71.5 mm | 71.5 mm | 71.5 mm | 71.5 mm |
| Height | 90 mm | 90 mm | 90 mm | 90 mm |
| Depth | 60 mm | 60 mm | 60 mm | 60 mm |

Overview


- Expansion modules for connection to LOGO! Modular
- With digital inputs and outputs, analog inputs, or analog outputs

2

Ordering data

| Ordering data | Article No. | Ordering data | Article No. |
|---|---------------------------|--|---------------------------|
| LOGO! 8 expansion modules | | LOGO! AM2 | 6ED1055-1MA00-0BA2 |
| LOGO! DM8 24 24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A | 6ED1055-1CB00-0BA2 | 12...24 V DC supply voltage, 2 analog inputs 0 to 10 V or 0 to 20 mA, resolution 10 bits | |
| LOGO! DM16 24 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 digital outputs 24 V DC, 0.3 A | 6ED1055-1CB10-0BA2 | LOGO! AM2 PT 100 | 6ED1055-1MD00-0BA2 |
| LOGO! DM8 12/24R 12...24 V DC supply voltage, 4 digital inputs 12...24 V DC, 4 relay outputs 5 A | 6ED1055-1MB00-0BA2 | 12...24 V DC supply voltage, 2 analog inputs Pt100, temperature range -50 °C to 200 °C | |
| LOGO! DM8 24R 24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A | 6ED1055-1HB00-0BA2 | LOGO! AM2 AQ | 6ED1055-1MM00-0BA2 |
| LOGO! DM16 24R 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 relay outputs 5 A | 6ED1055-1NB10-0BA2 | 24 V DC supply voltage, 2 analog outputs 0 to 10 V, 0/4 to 20 mA | |
| LOGO! DM8 230R 115...230 V AC/DC supply voltage, 4 digital inputs 115...230 V AC/DC, 4 relay outputs 5 A | 6ED1055-1FB00-0BA2 | Accessories for LOGO! 8 | |
| LOGO! DM16 230R 115...230 V AC/DC supply voltage, 8 digital inputs 115...230 V AC/DC, 8 relay outputs 5 A | 6ED1055-1FB10-0BA2 | LOGO!Soft Comfort V8 | 6ED1058-0BA08-0YA1 |
| | | For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD | |

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! expansion modules

Technical specifications

| Article number | 6ED1055-1CB00-0BA2 LOGO! DM8 24 Exp. mod., 4DI/4DO | 6ED1055-1HB00-0BA2 LOGO! DM8 24R Exp. mod. 2 MW, 4DI/4DO | 6ED1055-1MB00-0BA2 LOGO! DM8 12/24R Exp. mod. 2 MW, 4DI/DO | 6ED1055-1FB00-0BA2 LOGO! DM8 230R Exp. mod. 2 MW, 4DI/4DO |
|---|--|--|--|---|
| Installation type/mounting | | | | |
| Mounting | on 35 mm DIN rail, 2 spacing units wide | on 35 mm DIN rail, 2 spacing units wide | on 35 mm DIN rail, 2 spacing units wide | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage | | | | |
| Rated value (DC) | | | Yes | |
| • 12 V DC | Yes | Yes | Yes | |
| • 24 V DC | | | | Yes |
| • 115 V DC | | | | Yes |
| • 230 V DC | | | | |
| Rated value (AC) | | Yes | | Yes |
| • 24 V AC | | | | Yes |
| • 115 V AC | | | | Yes |
| • 230 V AC | | | | |
| Line frequency | | | | |
| • permissible range, lower limit | | 47 Hz | | 47 Hz |
| • permissible range, upper limit | | 63 Hz | | 63 Hz |
| Digital inputs | | | | |
| Number of digital inputs | 4 | 4 | 4 | 4 |
| Input voltage | | | | |
| • Type of input voltage | DC | AC/DC | DC | AC/DC |
| • for signal "0" | < 5 V DC | < 5 V AC/DC | < 5 V DC | < 40 V AC, < 30 V DC |
| • for signal "1" | > 12 V DC | > 12 V AC/DC | > 8.5 V | > 79 V AC, > 79 V DC |
| Input current | | | | |
| • for signal "0", max. (permissible quiescent current) | 0.88 mA | 1.1 mA | 0.88 mA | 0.06 mA; 0.05 mA with AC, 0.06 mA with DC |
| • for signal "1", typ. | 2.1 mA | 2.63 mA | 1.5 mA | 0.13 mA |
| Input delay (for rated value of input voltage) for standard inputs | | | | |
| - at "0" to "1", max. | 1.5 ms | 1.5 ms | 1.5 ms | 40 ms |
| - at "1" to "0", max. | 1.5 ms | 15 ms | 1.5 ms | 75 ms |
| Digital outputs | | | | |
| Number of digital outputs | 4 | 4; Relays | 4; Relays | 4; Relays |
| Short-circuit protection | Yes | No | No | No |
| Controlling a digital input | | Yes | Yes | Yes |
| Switching capacity of the outputs | | | | |
| • on lamp load, max. | | 1 000 W | 1 000 W | 1 000 W; 500 W at 115V AC |
| Parallel switching of two outputs | | | | |
| • for uprating | No | No | No | No |
| Switching frequency | | | | |
| • with resistive load, max. | 10 Hz | 2 Hz | 2 Hz | 2 Hz |
| • with inductive load, max. | 0.5 Hz | 0.5 Hz | 0.5 Hz | 0.5 Hz |
| • mechanical, max. | | 10 Hz | 10 Hz | 10 Hz |
| Relay outputs | | | | |
| Switching capacity of contacts | | | | |
| - with inductive load, max. | | 3 A | 3 A | 3 A |
| - with resistive load, max. | | 5 A | 5 A | 5 A |
| EMC | | | | |
| Emission of radio interference acc. to EN 55 011 | | | | |
| • Limit class B, for use in residential areas | Yes | Yes | Yes | Yes |

Technical specifications

| Article number | 6ED1055-1CB00-0BA2 LOGO! DM8 24 Exp. mod., 4DI/4DO | 6ED1055-1HB00-0BA2 LOGO! DM8 24R Exp. mod. 2 MW, 4DI/4DO | 6ED1055-1MB00-0BA2 LOGO! DM8 12/24R Exp. mod. 2 MW, 4DI/DO | 6ED1055-1FB00-0BA2 LOGO! DM8 230R Exp. mod. 2 MW, 4DI/4DO |
|---|--|--|---|--|
| Standards, approvals, certificates | | | | |
| CE mark | Yes | Yes | Yes | Yes |
| CSA approval | Yes | Yes | Yes | Yes |
| UL approval | Yes | Yes | Yes | Yes |
| FM approval | Yes | Yes | Yes | Yes |
| developed in accordance with IEC 61131 | Yes | Yes | Yes | Yes |
| according to VDE 0631 | Yes | Yes | | Yes |
| Marine approval | Yes | Yes | Yes | Yes |
| Ambient conditions | | | | |
| Ambient temperature during operation | | | | |
| • min. | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C |
| • max. | 55 °C | 55 °C | 55 °C | 55 °C |
| Dimensions | | | | |
| Width | 35.5 mm | 35.5 mm | 35.5 mm | 35.5 mm |
| Height | 90 mm | 90 mm | 90 mm | 90 mm |
| Depth | 58 mm | 58 mm | 58 mm | 58 mm |
| Article number | 6ED1055-1CB10-0BA2 LOGO! DM16 24 Exp. mod., 4 MW, 8DI/8DO | 6ED1055-1NB10-0BA2 LOGO! DM16 24R Exp. mod. 4 MW, 8DI/8DO | 6ED1055-1FB10-0BA2 LOGO! DM16 230R Exp. mod. 4 MW, 8DI/8DO | |
| Installation type/mounting | | | | |
| Mounting | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | on 35 mm DIN rail, 4 spacing units wide | |
| Supply voltage | | | | |
| Rated value (DC) | Yes | Yes | Yes Yes | |
| • 24 V DC | | | | |
| • 115 V DC | | | | |
| • 230 V DC | No | | Yes Yes | |
| Rated value (AC) | | | | |
| • 24 V AC | | | | |
| • 115 V AC | Yes Yes | | | |
| • 230 V AC | | | | |
| Line frequency | | | | |
| • permissible range, lower limit | | | 47 Hz | |
| • permissible range, upper limit | | | 63 Hz | |
| Digital inputs | | | | |
| Number of digital inputs | 8 | 8 | 8 | |
| Input voltage | | | | |
| • Type of input voltage | DC | DC | AC/DC | |
| • for signal "0" | < 5 V DC | < 5 V DC | < 40 V AC, < 30 V DC | |
| • for signal "1" | > 12 V DC | > 12 V DC | > 79 V AC, > 79 V DC | |
| Input current | | | | |
| • for signal "0", max. (permissible quiescent current) | 0.85 mA | 0.85 mA | 0.06 mA; 0.05 mA with AC, 0.06 mA with DC | |
| • for signal "1", typ. | 2 mA | 2 mA | 0.13 mA | |
| Input delay (for rated value of input voltage) | | | | |
| for standard inputs | | | | |
| - at "0" to "1", max. | 1.5 ms | 1.5 ms | 40 ms | |
| - at "1" to "0", max. | 1.5 ms | 1.5 ms | 75 ms | |

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! expansion modules

Technical specifications

| Article number | 6ED1055-1CB10-0BA2 LOGO! DM16 24 Exp. mod., 4 MW, 8DI/8DO | 6ED1055-1NB10-0BA2 LOGO! DM16 24R Exp. mod. 4 MW, 8DI/8DO | 6ED1055-1FB10-0BA2 LOGO! DM16 230R Exp. mod. 4 MW, 8DI/8DO |
|---|--|--|---|
| Digital outputs | | | |
| Number of digital outputs | 8 | 8; Relays | 8; Relays |
| Short-circuit protection | Yes | No | No |
| Controlling a digital input | | Yes | Yes |
| Switching capacity of the outputs | | | |
| • on lamp load, max. | | 1 000 W | 1 000 W; 500 W at 115V AC |
| Parallel switching of two outputs | | | |
| • for uprating | No | No | No |
| Switching frequency | | | |
| • with resistive load, max. | 10 Hz | 2 Hz | 2 Hz |
| • with inductive load, max. | 0.5 Hz | 0.5 Hz | 0.5 Hz |
| • mechanical, max. | | 10 Hz | 10 Hz |
| Relay outputs | | | |
| Switching capacity of contacts | | | |
| - with inductive load, max. | | 3 A | 3 A |
| - with resistive load, max. | | 5 A | 5 A |
| EMC | | | |
| Emission of radio interference acc. to EN 55 011 | | | |
| • Limit class B, for use in residential areas | Yes | Yes | Yes |
| Standards, approvals, certificates | | | |
| CE mark | Yes | Yes | Yes |
| CSA approval | Yes | Yes | Yes |
| UL approval | Yes | Yes | Yes |
| FM approval | Yes | Yes | Yes |
| developed in accordance with IEC 61131 | Yes | Yes | Yes |
| according to VDE 0631 | Yes | Yes | Yes |
| Marine approval | Yes | Yes | Yes |
| Ambient conditions | | | |
| Ambient temperature during operation | | | |
| • min. | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C |
| • max. | 55 °C | 55 °C | 55 °C |
| Dimensions | | | |
| Width | 71.5 mm | 71.5 mm | 71.5 mm |
| Height | 90 mm | 90 mm | 90 mm |
| Depth | 58 mm | 58 mm | 58 mm |

Technical specifications

| Article number | 6ED1055-1MA00-0BA2 LOGO! AM2 Exp. mod., 12/24V, 2AI, | 6ED1055-1MD00-0BA2 LOGO! AM2 RTD, 2AI, -50..+200DECR/C |
|--|--|--|
| Installation type/mounting | | |
| Mounting | on 35 mm DIN rail, 2 spacing units wide | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage | | |
| Rated value (DC) | | |
| • 12 V DC | Yes; 10.8 V DC to 28.8 V DC | Yes; 10.8 V DC to 28.8 V DC |
| • 24 V DC | Yes; 10.8 V DC to 28.8 V DC | Yes; 10.8 V DC to 28.8 V DC |
| Analog inputs | | |
| Number of analog inputs | 2 | 2; 2 or 3 wire connection |
| Input ranges | | |
| • Voltage | Yes | No |
| • Current | Yes | No |
| • Resistance thermometer | No | Yes; For PT100/PT1000 sensors |
| Input ranges (rated values), voltages | | |
| • 0 to +10 V | Yes | No |
| Input ranges (rated values), currents | | |
| • 0 to 20 mA | Yes; 0 mA or 4 mA to 20 mA | No |
| Input ranges (rated values), resistance thermometer | | |
| • Pt 100 | No | Yes |
| EMC | | |
| Emission of radio interference acc. to EN 55 011 | | |
| • Limit class B, for use in residential areas | Yes | Yes |
| Standards, approvals, certificates | | |
| CE mark | Yes | Yes |
| CSA approval | Yes | Yes |
| UL approval | Yes | Yes |
| FM approval | Yes | Yes |
| developed in accordance with IEC 61131 | Yes | Yes |
| according to VDE 0631 | Yes | |
| Marine approval | Yes | Yes |
| Ambient conditions | | |
| Ambient temperature during operation | | |
| • min. | 0 °C; ES03 and higher: -20 °C | 0 °C; ES03 and higher: -20 °C |
| • max. | 55 °C | 55 °C |
| Dimensions | | |
| Width | 35.5 mm | 35.5 mm |
| Height | 90 mm | 90 mm |
| Depth | 58 mm | 58 mm |

LOGO! logic modules

LOGO! basic and expansion modules

LOGO! expansion modules**Technical specifications**

| | |
|---|--|
| Article number | 6ED1055-1MM00-0BA2 LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20mA |
| Installation type/mounting | |
| Mounting | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage | |
| Rated value (DC) | 24 V |
| Analog outputs | |
| Number of analog outputs | 2 |
| Output ranges, voltage | |
| • 0 to 10 V | Yes |
| Output ranges, current | |
| • 0 to 20 mA | Yes |
| • 4 mA to 20 mA | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| • Limit class B, for use in residential areas | Yes |

| | |
|---|--|
| Article number | 6ED1055-1MM00-0BA2 LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20mA |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| FM approval | Yes |
| developed in accordance with IEC 61131 | Yes |
| according to VDE 0631 | Yes |
| Marine approval | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | 0 °C; ES03 and higher: -20 °C |
| • max. | 55 °C |
| Dimensions | |
| Width | 35.5 mm |
| Height | 90 mm |
| Depth | 58 mm |

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules with display

Overview



- The space-saving basic variants
- Interface for connecting expansion modules, up to 24 digital inputs, 20 (16) digital outputs, 8 analog inputs and 8 (2) analog outputs can be addressed
- With connection option for LOGO! TD text display (can be connected to all LOGO! 0BA6 and 0BA7 basic variants); LOGO! TDE can be connected to LOGO! 8 or higher

New for LOGO! 8

- All basic units with integrated web server
- Same enclosure width as LOGO! 0BA6 (4 MW)
- All basic units with Ethernet interface for communication with LOGO!, SIMATIC Controllers, SIMATIC Panel and PC
- Use of standard micro CF cards

LOGO! 0BA7 versions:

- Ethernet interface for communication with SIMATIC Controllers, SIMATIC Panel and PC
- Networking of max. 8 LOGO! devices
- Use of standard SD card or SIMATIC Memory Card

Note:

SIPLUS LOGO! 6/7 versions are not compatible with SIPLUS LOGO! 8.

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the corresponding standard products. SIPLUS extreme-specific information was added.

Ordering data

Article No.

SIPLUS LOGO! 8 logic module

SIPLUS LOGO! 24CE

24 V DC supply voltage,
8 digital inputs 24 V DC,
of which 4 can be used
in analog mode (0 to 10 V),
4 digital outputs 24 V DC, 0.3 A,
integrated time switch
Ethernet interface;
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and
exposure to media

6AG1052-1CC08-7BA1

SIPLUS LOGO! 12/24RCE

12...24 V DC supply voltage,
8 digital inputs 12/24 V DC,
of which 4 can be used
in analog mode (0 to 10 V),
4 relay outputs 10 A,
integrated time switch,
Ethernet interface;
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and
exposure to media

6AG1052-1MD08-7BA1

SIPLUS LOGO! 24RCE

24 V AC/DC supply voltage,
8 digital inputs 24 V AC/DC,
4 relay outputs 10 A,
integrated time switch,
Ethernet interface;
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and
exposure to media

6AG1052-1HB08-7BA1

SIPLUS LOGO! 230RCE

115...230 V AC/DC supply voltage,
8 digital inputs 115...230 V AC/DC,
4 relay outputs 10 A,
integrated time switch,
Ethernet interface;
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and
exposure to media

6AG1052-1FB08-7BA1

Accessories

SIPLUS LOGO! TDE

(Extended temperature range
-25 ... +60 °C (start-up -20 °C)
and exposure to media)

6-line text display, can be
connected to all LOGO! 8 variants
with and without display,
with 2 Ethernet interfaces;
incl. installation accessories.
Requires additional 12 V DC or
24 V AC/DC power supply

6AG1055-4MH08-2BA1

LOGO!Soft Comfort V8

For programming on the PC
in LAD/FBD;
executes on Windows 8, 7, XP,
Linux and Mac OSX; on DVD

6ED1058-0BA08-0YA1

Front panel mounting set

Width 8 MW, with keys

6AG1057-1AA00-0AA2

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules with display**Technical specifications**

| Article number | 6AG1052-1CC08-7BA1 | 6AG1052-1MD08-7BA1 | 6AG1052-1FB08-7BA1 | 6AG1052-1HB08-7BA1 |
|---|---|---|---|---|
| Based on | 6ED1052-1CC08-0BA1 SIPLUS LOGO! 24CE | 6ED1052-1MD08-0BA1 SIPLUS LOGO! 12/24RCE | 6ED1052-1HB08-0BA1 SIPLUS LOGO! 230RCE | 6ED1052-1FB08-0BA1 SIPLUS LOGO! 24RCE |
| Ambient conditions | | | | |
| Ambient temperature during operation | | | | |
| • min. | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C |
| • max. | 60 °C; = Tmax | 60 °C; Tmax; Tmax > +55 °C max. load 1 A per relay or max. load 3 A per relay and half the number of DIs (no adjacent points) | 60 °C; Tmax; Tmax > +55 °C max. load 1 A per relay | 70 °C; Tmax; Tmax > +55 °C max. load 1 A per relay or max. load 3 A per relay and half the number of DIs (no adjacent points) |
| • At cold restart, min. | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| Altitude during operation relating to sea level | | | | |
| • Installation altitude above sea level, max. | 5 000 m | 5 000 m | 2 000 m | 5 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | | | | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | | | | |
| Coolants and lubricants | | | | |
| - Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems | | | | |
| - to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| - to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * |
| Use on ships/at sea | | | | |
| - to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| - to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * |

Technical specifications

| Article number | 6AG1052-1CC08-7BA1 | 6AG1052-1MD08-7BA1 | 6AG1052-1FB08-7BA1 | 6AG1052-1HB08-7BA1 |
|---|---|---|---|---|
| Based on | 6ED1052-1CC08-0BA1 SIPLUS LOGO! 24CE | 6ED1052-1MD08-70BA1 SIPLUS LOGO! 12/24RCE | 6ED1052-1HB08-0BA1 SIPLUS LOGO! 230RCE | 6ED1052-1FB08-0BA1 SIPLUS LOGO! 24RCE |
| Usage in industrial process technology | | | | |
| - Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) |
| - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | | | | |
| - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | | | | |
| • Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high reliability | Yes; Class 2 for high reliability | Yes; Class 2 for high reliability | Yes; Class 2 for high reliability |
| • Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection | Yes; Type 1 protection | Yes; Type 1 protection | Yes; Type 1 protection |
| • Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life |
| • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A |

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules without display

Overview



- Basic variants optimized for costs
- Interface for connecting expansion modules, up to 24 digital inputs, 16 (20) digital outputs, 8 analog inputs and 2 (8) analog outputs can be addressed
- With connection option for LOGO! TD text display (can be connected to all LOGO! 0BA6 basic variants)

New for SIPLUS LOGO! 8

- All basic units with integrated web server
- Same enclosure width as LOGO! 0BA6 (4 MW)
- All basic units with Ethernet interface for communication with LOGO!, SIMATIC Controllers, SIMATIC Panel and PC
- Use of standard micro CF cards

Note:

SIPLUS LOGO! 6 versions are not compatible with SIPLUS LOGO! 8.

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

Ordering data

Article No.

SIPLUS LOGO! 8 logic module

SIPLUS LOGO! 24CEo

24 V DC supply voltage
8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V)
4 digital outputs 24 V DC, 0.3 A,
Integrated time switch
Ethernet interface;
without display and keyboard
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and exposure to media

6AG1052-2CC08-7BA1

SIPLUS LOGO! 230RCEo

115...230 V AC/DC supply voltage
8 digital inputs 115...230 V AC/DC
4 relay outputs 10 A
Integrated time switch
Ethernet interface;
without display or keyboard
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and exposure to media

6AG1052-2FB08-7BA1

SIPLUS LOGO! 24RCEo

24 V AC/DC supply voltage,
8 digital inputs 24 V AC/DC,
4 relay outputs 10 A,
integrated time switch,
Ethernet interface;
without display or keyboard;
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and exposure to media

6AG1052-2HB08-7BA1

SIPLUS LOGO! 12/24RCEo

12...24 V DC supply voltage
8 digital inputs 12...24 V DC, of which 4 can be used in analog mode (0 to 10 V)
4 relay outputs 10 A
Integrated time switch
Ethernet interface;
without display and keyboard
400 function blocks
can be interlinked,
modular expansion capability

Extended temperature range and exposure to media

6AG1052-2MD08-7BA1

Accessories

SIPLUS LOGO! TDE

(Extended temperature range -25 ... +60 °C (start-up -20 °C) and exposure to media)

6-line text display, can be connected to all LOGO! 8 variants with and without display, with 2 Ethernet interfaces; incl. installation accessories. Requires additional 12 V DC or 24 V AC/DC power supply

6AG1055-4MH08-2BA1

LOGO!Soft Comfort V8

For programming on the PC in LAD/FBD;
executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD

6ED1058-0BA08-0YA1

Front panel mounting set

Width 8 MW, with keys

6AG1057-1AA00-0AA2

Technical specifications

| Article number | 6AG1052-1CC08-7BA1 | 6AG1052-1MD08-7BA1 | 6AG1052-1HB08-7BA1 | 6AG1052-1FB08-7BA1 |
|---|---|---|---|---|
| Based on | 6ED1052-2CC08-0BA1 SIPLUS LOGO! 24CE | 6ED1052-2MD08-0BA1 SIPLUS LOGO! 12/24RCE | 6ED1052-2HB08-0BA1 SIPLUS LOGO! 24RCE | 6ED1052-2FB08-0BA1 SIPLUS LOGO! 230RCE |
| Ambient conditions | | | | |
| Ambient temperature during operation | | | | |
| • min. | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C | -25 °C; = Tmin; Startup @ -20 °C |
| • max. | 60 °C; = Tmax | 60 °C; Tmax; Tmax > +55 °C max. load 1 A per relay or max. load 3 A per relay and half the number of DIs (no adjacent points) | 70 °C; Tmax; Tmax > +55 °C max. load 1 A per relay or max. load 3 A per relay and half the number of DIs (no adjacent points) | 60 °C; Tmax; Tmax > +55 °C max. load 1 A per relay |
| • At cold restart, min. | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -20 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| Altitude during operation relating to sea level | | | | |
| • Installation altitude above sea level, max. | 5 000 m | 5 000 m | 5 000 m | 2 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) |
| Relative humidity | | | | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | | | | |
| Coolants and lubricants | | | | |
| - Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems | | | | |
| - to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| - to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * | Yes; Class 3S4 incl. sand, dust; * |
| Use on ships/at sea | | | | |
| - to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| - to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * |

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules without display

Technical specifications

| Article number | 6AG1052-1CC08-7BA1 | 6AG1052-1MD08-7BA1 | 6AG1052-1HB08-7BA1 | 6AG1052-1FB08-7BA1 |
|---|---|---|---|---|
| Based on | 6ED1052-2CC08-0BA1 | 6ED1052-2MD08-0BA1 | 6ED1052-2HB08-0BA1 | 6ED1052-2FB08-0BA1 |
| | SIPLUS LOGO! 24CE | SIPLUS LOGO! 12/24RCE | SIPLUS LOGO! 24RCE | SIPLUS LOGO! 230RCE |
| Usage in industrial process technology | | | | |
| <ul style="list-style-type: none"> - Against chemically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) |
| | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | | | | |
| <ul style="list-style-type: none"> - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | | | | |
| <ul style="list-style-type: none"> • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Class 2 for high reliability Yes; Type 1 protection | Yes; Class 2 for high reliability Yes; Type 1 protection | Yes; Class 2 for high reliability Yes; Type 1 protection | Yes; Class 2 for high reliability Yes; Type 1 protection |
| | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life |
| | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A |

Overview



- Expansion modules for connection to LOGO! modular
- With digital inputs and outputs, analog inputs, or analog outputs

Note:

SIPLUS LOGO! 6 versions are not compatible with SIPLUS LOGO! 8.

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were adopted from the respective standard products. SIPLUS extreme specific information was added.

Ordering data

Article No.

| | |
|---|---------------------------|
| SIPLUS LOGO! 8 expansion modules | |
| SIPLUS LOGO! DM8 24 24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A Extended temperature range and exposure to media | 6AG1055-1CB00-7BA2 |
| SIPLUS LOGO! DM8 230R 115...230 V AC/DC supply voltage, 4 digital inputs 115...230 V AC/DC, 4 relay outputs 5 A Extended temperature range and exposure to media | 6AG1055-1FB00-7BA2 |
| SIPLUS LOGO! DM8 24R 24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A Extended temperature range and exposure to media | 6AG1055-1HB00-7BA2 |
| SIPLUS LOGO! AM2 12...24 V DC supply voltage, 2 analog inputs 0 to 10 V or 0 to 20 mA, 10-bit resolution Extended temperature range and exposure to media | 6AG1055-1MA00-7BA2 |
| SIPLUS LOGO! DM8 12/24R 12...24 V DC supply voltage, 4 digital inputs 12...24 V DC, 4 relay outputs 5 A Extended temperature range and exposure to media | 6AG1055-1MB00-7BA2 |
| LOGO! AM2 RTD 12...24 V DC supply voltage, 2 analog inputs Pt100, temperature range -50 °C to 200 °C Extended temperature range and exposure to media | 6AG1055-1MD00-7BA2 |
| SIPLUS LOGO! AM2 AQ 24 V DC supply voltage, 2 analog outputs 0 to 10 V, 0/4 to 20 mA Extended temperature range and exposure to media | 6AG1055-1MM00-7BA2 |
| SIPLUS LOGO! DM16 24R 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 relay outputs 5 A Extended temperature range and exposure to media | 6AG1055-1NB10-7BA2 |
| Accessories | |
| LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD | 6ED1058-0BA08-0YA1 |
| Front panel mounting set Width 8 MW, with keys | 6AG1057-1AA00-0AA2 |

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules

Technical specifications

| Article number | 6AG1055-1CB00-7BA2 | 6AG1055-1HB00-7BA2 | 6AG1055-1MB00-7BA2 |
|---|---|---|---|
| Based on | 6ED1055-1CB00-0BA2 SIPLUS LOGO! DM8 24 V8 | 6ED1055-1HB00-0BA2 SIPLUS LOGO! DM8 24R V8 | 6ED1055-1MB00-0BA2 SIPLUS LOGO! DM8 12/24R V8 |
| Ambient conditions | | | |
| Ambient temperature during operation | | | |
| • min. | -40 °C; = Tmin; Startup @ -25 °C | -40 °C; = Tmin; Startup @ -25 °C | -40 °C; = Tmin; Startup @ -25 °C |
| • max. | 70 °C; Tmax; Tmax > +55 °C max. load 0.2 A per output | 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A | 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A |
| • At cold restart, min. | -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| Altitude during operation relating to sea level | | | |
| • Installation altitude above sea level, max. | 5 000 m | 5 000 m | 5 000 m |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | | | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | | | |
| Coolants and lubricants | | | |
| - Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems | | | |
| - to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| - to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * | Yes; Class 3S4 incl. sand, dust, * | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | | | |
| - to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| - to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| - to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6S3 incl. sand, dust; * |
| Usage in industrial process technology | | | |
| - Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) | Yes; Class 3 (excluding trichlorethylene) |
| - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | | | |
| - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! |

Technical specifications

| Article number | 6AG1055-1CB00-7BA2 | 6AG1055-1HB00-7BA2 | 6AG1055-1MB00-7BA2 |
|---|--|--|--|
| Based on | 6ED1055-1CB00-0BA2 SIPLUS LOGO! DM8 24 V8 | 6ED1055-1HB00-0BA2 SIPLUS LOGO! DM8 24R V8 | 6ED1055-1MB00-0BA2 SIPLUS LOGO! DM8 12/24R V8 |
| Conformal coating | | | |
| <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Class 2 for high reliability | Yes; Class 2 for high reliability | Yes; Class 2 for high reliability |
| | Yes; Type 1 protection | Yes; Type 1 protection | Yes; Type 1 protection |
| | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life | Yes; Discoloration of coating possible during service life |
| | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A | Yes; Conformal coating, Class A |
| Article number | 6AG1055-1FB00-7BA2 | 6AG1055-1NB10-7BA2 | |
| Based on | 6ED1055-1FB00-0BA2 SIPLUS LOGO! DM8 230R V8 | 6ED1055-1NB10-0BA2 SIPLUS LOGO! DM16 24R V8 | |
| Ambient conditions | | | |
| Ambient temperature during operation | | | |
| <ul style="list-style-type: none"> min. max. At cold restart, min. | -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | |
| Altitude during operation relating to sea level | | | |
| <ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude | 2 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) | 5 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | |
| Relative humidity | | | |
| <ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | |
| Resistance | | | |
| Coolants and lubricants | | | |
| <ul style="list-style-type: none"> Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air | |
| Use in stationary industrial systems | | | |
| <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * | |
| Use on ships/at sea | | | |
| <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * | |
| Usage in industrial process technology | | | |
| <ul style="list-style-type: none"> Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | |
| Remark | | | |
| <ul style="list-style-type: none"> Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! | |

LOGO! logic modules

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules**Technical specifications**

| Article number | 6AG1055-1FB00-7BA2 | 6AG1055-1NB10-7BA2 |
|---|---|---|
| Based on | 6ED1055-1FB00-0BA2 SIPLUS LOGO! DM8 230R V8 | 6ED1055-1NB10-0BA2 SIPLUS LOGO! DM16 24R V8 |
| Conformal coating | | |
| <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | <ul style="list-style-type: none"> Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A | <ul style="list-style-type: none"> Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A |
| Article number | 6AG1055-1MA00-7BA2 | 6AG1055-1MD00-7BA2 |
| Based on | 6ED1055-1MA00-0BA2 SIPLUS LOGO! AM2 V8 | 6ED1055-1MD00-0BA2 SIPLUS LOGO! AM2 RTD |
| Ambient conditions | | |
| Ambient temperature during operation | | |
| <ul style="list-style-type: none"> min. max. At cold restart, min. | <ul style="list-style-type: none"> -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | <ul style="list-style-type: none"> -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| Altitude during operation relating to sea level | | |
| <ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude | <ul style="list-style-type: none"> 5 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | <ul style="list-style-type: none"> 5 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | | |
| <ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | | |
| Coolants and lubricants | | |
| <ul style="list-style-type: none"> Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems | | |
| <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 | <ul style="list-style-type: none"> Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * | <ul style="list-style-type: none"> Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | | |
| <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6 | <ul style="list-style-type: none"> Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * | <ul style="list-style-type: none"> Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * |
| Usage in industrial process technology | | |
| <ul style="list-style-type: none"> Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | <ul style="list-style-type: none"> Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | <ul style="list-style-type: none"> Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | | |
| <ul style="list-style-type: none"> Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! | * The supplied plug covers must remain in place over the unused interfaces during operation! |

Technical specifications

| Article number | 6AG1055-1MA00-7BA2 | 6AG1055-1MD00-7BA2 | |
|---|--|---|---|
| Based on | 6ED1055-1MA00-0BA2 SIPLUS LOGO! AM2 V8 | 6ED1055-1MD00-0BA2 SIPLUS LOGO! AM2 RTD | |
| Conformal coating | | | |
| <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | <ul style="list-style-type: none"> Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A | <ul style="list-style-type: none"> Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A | |
| Article number | 6AG1055-1MM00-7BA2 | Article number | 6AG1055-1MM00-7BA2 |
| Based on | 6ED1055-1MM00-0BA2 SIPLUS LOGO! AM2 AQ V8 | Based on | 6ED1055-1MM00-0BA2 SIPLUS LOGO! AM2 AQ V8 |
| Ambient conditions | | Usage in industrial process technology | |
| Ambient temperature during operation | | <ul style="list-style-type: none"> Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | <ul style="list-style-type: none"> Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| <ul style="list-style-type: none"> min. max. At cold restart, min. | <ul style="list-style-type: none"> -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) | Remark | <ul style="list-style-type: none"> Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 |
| Altitude during operation relating to sea level | | Conformal coating | |
| <ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude | <ul style="list-style-type: none"> 5 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) | <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | <ul style="list-style-type: none"> Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A |
| Relative humidity | | Coolants and lubricants | |
| <ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. | <ul style="list-style-type: none"> 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | <ul style="list-style-type: none"> Resistant to commercially available coolants and lubricants | <ul style="list-style-type: none"> Yes; Incl. diesel and oil droplets in the air |
| Resistance | | Use in stationary industrial systems | |
| | | <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 | <ul style="list-style-type: none"> Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * |
| | | Use on ships/at sea | |
| | | <ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6 | <ul style="list-style-type: none"> Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * |

LOGO! logic modules

LOGO! communications modules

Introduction

Overview

2



- Communications modules for connecting LOGO! Modular to different bus systems.

Note on compatibility:

| Communications module | Can be used with: |
|-------------------------------------|-----------------------|
| LOGO! CMK2000 communications module | LOGO! ...0BA8 |
| LOGO! CSM 12/24 | LOGO! ...0BA7/...0BA8 |
| LOGO! CSM 230 | LOGO! ...0BA7 |
| LOGO! CMR2020 | LOGO! ...0BA8 |
| LOGO! CMR2040 | LOGO! ...0BA8 |

Overview


- Expansion module for LOGO! 8 basic versions
- For integrating LOGO! 8 in KNX installations
- With 24 digital inputs, 20 digital outputs as well as 8 analog inputs and outputs for processing process signals via KNX.

Ordering data
Article No.
LOGO! CMK2000 communications module

For integrating LOGO! 8 in the KNX building system bus, max. 50 communication objects can be configured; RJ45 port for Ethernet; supply voltage 24 V DC/40 mA

6BK1700-0BA20-0AA0
Technical specifications

| | |
|-----------------------------------|--|
| Article number | 6BK1700-0BA20-0AA0 LOGO! CMK2000 |
| General information | |
| Firmware version | |
| • FW update possible | Yes |
| Installation type/mounting | |
| Mounting | on 35 mm DIN rail, 4 spacing units wide |
| Supply voltage | |
| Rated value (DC) | 24 V |
| • 12 V DC | No |
| • 24 V DC | Yes |
| Rated value (AC) | |
| • 24 V AC | No |
| Input current | |
| Current consumption, max. | 0.04 A |
| Power loss | |
| Power loss, max. | 1.1 W |
| Memory | |
| Flash | Yes |
| Time of day | |
| Clock synchronization | |
| • supported | Yes |

| | |
|---|---|
| Article number | 6BK1700-0BA20-0AA0 LOGO! CMK2000 |
| Interfaces | |
| Number of industrial Ethernet interfaces | 1; Ethernet, 1 port, RJ45 |
| Number of other interfaces | 1; EIB/KNX |
| Transmission rate, max. | 100 Mbit/s over Ethernet, 9 600 bit/s over KNX |
| Design of plug-in connection | KNX terminal 0.6 mm ² - 1.0 mm ² |
| Protocols | |
| EIB/KNX | Yes |
| Web server | |
| • supported | Yes |
| Communication functions | |
| S7 basic communication | |
| • supported | No |
| LOGO! communication | |
| • supported | Yes |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |
| • RUN/STOP LED | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| • Limit class B, for use in residential areas | Yes; In accordance with EN 61000-6-3 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| cULus | Yes |
| FM approval | No |
| RCM (formerly C-TICK) | No |
| KC approval | Yes |
| EAC (formerly Gost-R) according to VDE 0631 | Yes No |
| Marine approval | No |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | 0 °C |
| • max. | 55 °C |
| Relative humidity | |
| • Operation, max. | 95 % |
| Connection method | |
| Design of electrical connection for supply voltage | 2 screw-type terminals: L+, M 0.5 mm ² - 2.5 mm ² Screw-type terminal: FE 0.5 mm ² ... 6.0 mm ² |
| Dimensions | |
| Width | 71.5 mm; 4TE |
| Height | 90 mm |
| Depth | 58.5 mm |
| Weights | |
| Weight, approx. | 0.14 kg |

LOGO! logic modules

LOGO! communications modules

LOGO! CSM unmanaged

Overview



The module is used to connect a LOGO! and up to three other nodes to an Industrial Ethernet network with 10/100 Mbps in an electrical linear, tree or star topology.

The essential features of the LOGO! CSM are:

- Unmanaged 4-port switch, of which one port is on the front for easy diagnostics access
- Two versions for the voltage ranges 12/24 V DC or 230 V AC/DC
- Problem-free connection using four RJ45 standard connectors
- Space-saving, optimized for connection to LOGO!
- Low-cost solution for implementing small, local Ethernet networks
- Stand-alone use for networking any Ethernet devices

Ordering data

Article No.

LOGO! CSM compact switch modules

Unmanaged switch for connection of one LOGO! and up to three further nodes on Industrial Ethernet with 10/100 Mbps; 4 x RJ45 ports; LED diagnostics, LOGO! module

- **LOGO! CSM12/24**
external 12 V DC or 24 V DC power supply, for LOGO! ... 0BA7/... 0BA8
- **LOGO! CSM230**
external 115 ... 240 V AC power supply, for LOGO! ... 0BA7

6GK7177-1MA20-0AA0

6GK7177-1FA10-0AA0

Accessories

IE TP cord RJ45/RJ45

TP cable 4 x 2 with 2 RJ45 plugs

- 0.5 m
- 1 m
- 2 m
- 6 m
- 10 m

6XV1870-3QE50
6XV1870-3QH10
6XV1870-3QH20
6XV1870-3QH60
6XV1870-3QN10

IE FC outlet RJ45

For connection of Industrial Ethernet FC cables and TP cords; graduated prices for 10 and 50 units or more

6GK1901-1FC00-0AA0

Technical specifications

| Article number | 6GK7177-1FA10-0AA0 | 6GK7177-1MA20-0AA0 |
|--|-----------------------|-----------------------|
| product type designation | LOGO! CSM 230 | LOGO! CSM 12/24 |
| transfer rate | | |
| transfer rate | 10 Mbit/s, 100 Mbit/s | 10 Mbit/s, 100 Mbit/s |
| interfaces for communication integrated | | |
| number of electrical connections | | |
| • for network components or terminal equipment | 4 | 4 |
| number of 100 Mbit/s SC ports | | |
| • for multimode | 0 | 0 |
| number of 1000 Mbit/s LC ports | | |
| • for multimode | 0 | 0 |
| • for single mode (LD) | 0 | 0 |
| interfaces other | | |
| number of electrical connections | | |
| • for power supply | 1 | 1 |
| type of electrical connection | | |
| • for power supply | 3-pole terminal block | 3-pole terminal block |
| supply voltage, current consumption, power loss | | |
| type of voltage 1 of the supply voltage | DC | DC |
| • supply voltage 1 rated value | 230 V | 24 V |
| • power loss [W] 1 rated value | | 1.5 W |
| • supply voltage 1 rated value | 100 ... 240 V | 10.2 ... 30.2 V |
| • consumed current 1 maximum | 0.02 A | 0.15 A |
| • type of electrical connection 1 for power supply | 3-pole terminal block | 3-pole terminal block |
| • product component 1 fusing at power supply input | Yes | Yes |
| type of voltage 2 of the supply voltage | | |
| • supply voltage 2 rated value | 100 ... 240 V | |
| ambient conditions | | |
| ambient temperature | | |
| • during operation | 0 ... 55 °C | 0 ... 55 °C |
| • during storage | -40 ... +70 °C | -40 ... +70 °C |
| • during transport | -40 ... +70 °C | -40 ... +70 °C |
| relative humidity | | |
| • at 25 °C without condensation during operation maximum | 90 % | 90 % |
| protection class IP | IP20 | IP20 |
| design, dimensions and weights | | |
| design | LOGO! module | LOGO! module |
| width | 72 mm | 71.5 mm |
| height | 90 mm | 90 mm |
| depth | 55 mm | 58.2 mm |
| net weight | 0.155 kg | 0.15 kg |
| fastening method | | |
| • 35 mm top hat DIN rail mounting | Yes | Yes |
| • wall mounting | Yes | Yes |
| • S7-300 rail mounting | No | No |
| • S7-1500 rail mounting | No | No |

LOGO! logic modules

LOGO! communications modules

LOGO! CSM unmanaged**Technical specifications**

| Article number | 6GK7177-1FA10-0AA0 | 6GK7177-1MA20-0AA0 |
|--|--|--|
| product type designation | LOGO! CSM 230 | LOGO! CSM 12/24 |
| product functions management, configuration, engineering | | |
| product function | | |
| • multiport mirroring | No | No |
| product function switch-managed | No | No |
| standards, specifications, approvals | | |
| standard | | |
| • for FM | FM3600 and 3611: CL. I, Div2, Group A,B,C,D T4, CL I, Zone 2, Group IIC, T4, Ta=55°C | |
| • for safety from CSA and UL | UL60079-0, UL60079-15, CSA C22.2 | UL 508, CSA C22.2 No. 142 |
| standards, specifications, approvals CE | | |
| certificate of suitability CE marking | Yes | Yes |
| standards, specifications, approvals hazardous environments | | |
| standard for hazardous zone | no | ATEX: EN 60079-0 : 2009, EN 60079-15 :2010 (Directive 94/9/EC), IECEx: IEC 60079-0 :2011, IEC 60079-15 :2010 |
| • from CSA and UL | | Haz-Loc ANSI/ISA 12.12.01: CL. I, Div2, Group A,B,C,D T4, CL I, Zone 2, Group IIC, T4, Ta=55°C |
| certificate of suitability | | Yes |
| • CCC for hazardous zone according to GB standard | | |
| standards, specifications, approvals other | | |
| certificate of suitability | | |
| • C-Tick | Yes | Yes |
| • KC approval | No | No |
| standards, specifications, approvals marine classification | | |
| Marine classification association | | |
| • American Bureau of Shipping Europe Ltd. (ABS) | No | No |
| • French marine classification society (BV) | No | No |
| • Det Norske Veritas (DNV) | No | No |
| • Germanische Lloyd (GL) | No | No |
| • Lloyds Register of Shipping (LRS) | No | No |
| • Nippon Kaiji Kyokai (NK) | No | No |
| • Polski Rejestr Statkow (PRS) | No | No |

Overview


LOGO! CMR in combination with the LOGO! logic module is a cost-efficient communication system suitable for monitoring and controlling distributed plants and systems via text message or email.

LOGO! CMR can send text messages or emails to predefined mobile network numbers as well as receive text messages from predefined mobile network numbers.

Sending a text message/email can be initiated by events in the LOGO! basic module as well as by the two digital alarm inputs of the LOGO! CMR. The values in the LOGO! logic module can be directly influenced by receiving a text message.

The LOGO! CMR offers comfortable Web Based Management commissioning and diagnostics via local and/or remote access.

The two digital outputs can also be switched remotely by incoming text messages/emails.

LOGO! CMR determines the current position of the module based on the GPS signal received by the GPS antenna. In addition, the LOGO! 8 logic module can be time-synchronized by means of the time included in the GPS signal. Determination of time by means of an NTP server or from the data of the mobile network provider offers more options for synchronization of the LOGO! BM with the current time of day.

Product version:

- LOGO! CMR2020 for use in GSM/GPRS mobile wireless networks
- LOGO! CMR2040 for use in LTE mobile wireless networks

Warning! The country-specific mobile network approvals must be observed:

DE: <http://www.siemens.de/mobilfunkzulassungen>

EN: <http://www.siemens.com/mobilenetwork-approvals>

Ordering data
Article No.
Communications Module Radio LOGO! CMR

Communications modules for connection of LOGO! 8 to GSM/GPRS or LTE network; 1x RJ45 port for Industrial Ethernet connection; 2x digital input; 2x digital output; read/write access to LOGO! tags; possible to send/receive text messages; GPS position detection; time-of-day synchronization/forwarding with real time clock; configuration and diagnostics per web interface; Note country approvals: www.siemens.com/mobilenetwork-approvals

LOGO! CMR2020
6GK7142-7BX00-0AX0

For connecting LOGO! 8 to a GSM/GPRS network

LOGO! CMR2040
6GK7142-7EX00-0AX0

For connecting LOGO! 8 to an LTE network

Accessories
Mobile wireless antennas
ANT794-4MR
6NH9860-1AA00

For indoor and outdoor use; 5 m connecting cable permanently connected to antenna; SMA connector; incl. installation bracket, screws, wall anchors

ANT896-4MA
6GK5896-4MA00-0AA3

Rod antenna for direct mounting on device; SMA male connector

ANT896-4ME
6GK5896-4ME00-0AA0

Cylinder-shaped antenna for remote installation, e.g. on a control cabinet; N-Connect female connector

GPS antenna
ANT895-6ML
6GK5895-6ML00-0AA0

GPS/Glonass antenna for remote installation indoor and outdoor, magnet or screw mounting, 30 cm cable with N-Connect female connector

Antenna adapter cable

N-Connect/SMA male/male flexible connecting cable, pre-assembled, connecting cable; suitable for 0 ... 6 GHz, IP68

- 0.3 m
- 1 m
- 2 m
- 5 m

6XV1875-5LE30
6XV1875-5LH10
6XV1875-5LH20
6XV1875-5LH50

LOGO! logic modules

LOGO! communications modules

LOGO! CMR (wireless communication)

2

Ordering data**Article No.****Article No.****IWLAN RCoax/antenna
N-Connect male/male
flexible connecting cable**

Flexible connecting cable for connecting an RCoax cable or antenna to a SCALANCE W-700 Access Point with N-Connect connectors; pre-assembled with two N-Connect male connectors; suitable from 0 ... 6 GHz, IP68

- 1 m
- 2 m
- 5 m
- 10 m

6XV1875-5AH10
6XV1875-5AH20
6XV1875-5AH50
6XV1875-5AN10

Cabinet feedthrough

IWLAN RCOAX N-Connect/ N-Connect female/female panel feedthrough; Control cabinet feedthrough for wall thickness max. 4.5 mm; 2.4 GHz and 5 GHz, suitable from 0 ... 6 GHz, IP67

6GK5798-2PP00-2AA6

Lightning protector LP798-2N

Lightning protector with N/N female/female connection for ANT 790 antennas, IP67 (-40 to +85 °C), frequency range: 0 ... 6 GHz

6GK5798-2LP00-2AA6

Patch cable**IE TP Cord RJ45/RJ45**

TP cable 4 x 2 with 2 RJ45 plugs

- 0.5 m
- 1 m
- 2 m
- 6 m
- 10 m

6XV1870-3QE50
6XV1870-3QH10
6XV1870-3QH20
6XV1870-3QH60
6XV1870-3QN10

IE FC RJ45 outlet

For connection of Industrial Ethernet FC cables and TP Cords; graduated prices for 10 and 50 units or more

6GK1901-1FC00-0AA0

LOGO! CSM12/24

Compact Switch Module for connecting a LOGO! (...0BA7/...0BA8) and up to 3 additional nodes to Industrial Ethernet; 12/24 V DC power supply

6GK7177-1MA20-0AA0

LOGO! CSM230

Compact Switch Module for connecting a LOGO! (... 0BA7) and up to 3 additional nodes to Industrial Ethernet 115 ... 240 V AC/DC power supply

6GK7177-1FA10-0AA0

**Stainless steel enclosure
in IP68 degree of protection**

Stainless steel enclosure in IP68 degree of protection; suitable for SIMATIC RTU3030C; temperature range -60 to +135 °C; matte surface; cover with Pin Torx screws and padlock 7 cable openings and opening for mobile wireless antenna prepared; please order the needed quantity of cable glands and sealing plugs separately

6NH3112-3BA00-1XX1

**Aluminum enclosure
in IP68 degree of protection**

Aluminum enclosure in IP68 degree of protection; suitable for SIMATIC RTU3030C; temperature range -40 to +80 °C; cover with Pin Torx screws; 7 cable openings and opening for mobile wireless antenna prepared; please order the needed quantity of cable glands and sealing plugs separately

6NH3112-3BA00-1XX3

**Cable gland PG16 F
for IP68 enclosure**

Cable gland, M16, IP68, -40 to +100 °C; nickel-plated brass; suitable for enclosure with article numbers 6NH3112-3BA00-1x X1 and 6NH3112-3BA00-1x X3 pack quantity = 2 units

6NH3112-3BA00-1XX4

**Sealing plug M16
for IP68 enclosure**

Sealing plug, M16, IP68, -40 to +100 °C; nickel-plated brass; suitable for enclosure with article numbers 6NH3112-3BA00-1x X1 and 6NH3112-3BA00-1x X3, pack quantity = 2 units

6NH3112-3BA00-1XX5

Technical specifications

| Article number | 6GK7142-7BX00-0AX0 | 6GK7142-7EX00-0AX0 |
|--|--|--|
| product type designation | LOGO! CMR2020 | LOGO! CMR2040 |
| transfer rate | | |
| transfer rate | | |
| • at the 1st interface | 10 ... 100 Mbit/s | 10 ... 100 Mbit/s |
| • for GPRS transmission | | |
| - with downlink maximum | 80 kbit/s | 85.6 kbit/s |
| - with uplink maximum | 40 kbit/s | 85.6 kbit/s |
| • for LTE transmission | | |
| - with downlink maximum | | 100 Mbit/s |
| - with uplink maximum | | 50 Mbit/s |
| interfaces | | |
| number of interfaces acc. to Industrial Ethernet | 1 | 1 |
| number of electrical connections | | |
| • at the 1st interface acc. to Industrial Ethernet | 1 | 1 |
| • for external antenna(s) | 2 | 2 |
| • for power supply | 1 | 1 |
| number of slots | | |
| • for SIM cards | 1 | 1 |
| • for memory cards | 1 | 1 |
| type of electrical connection | | |
| • at the 1st interface acc. to Industrial Ethernet | RJ45 port | RJ45 port |
| type of electrical connection | | |
| • for external antenna(s) | SMA socket (50 ohms) | SMA socket (50 ohms) |
| • for power supply | 3-pole terminal block | 3-pole terminal block |
| type of antenna | | |
| • at connection 1 connectable | GPS Antenna | GPS Antenna |
| • at connection 2 connectable | Mobile radio antenna (GPRS/GSM) | Mobile radio antenna (GPRS/GSM, UMTS, LTE) |
| wire length of antenna wire maximum | 15 m | 15 m |
| slot version | | |
| • for SIM card | Standard | Standard |
| • of the memory card | microSD | microSD |
| storage capacity of the memory card maximum | 32 Gbyte | 32 Gbyte |
| performance class of the memory card minimum necessary | Class 6 | Class 6 |
| type of file system type of file system | FAT32 | FAT32 |
| signal inputs/outputs | | |
| number of electrical connections for digital input signals | 2 | 2 |
| type of electrical connection for digital input signals | 3 pole terminal block | 3 pole terminal block |
| digital input version | not galvanically isolated, not debounced | not galvanically isolated, not debounced |
| input voltage at digital input | | |
| • with signal <0> at DC | 0 ... 5 V | 0 ... 5 V |
| • for signal <1> at DC | 8.5 ... 24 V | 8.5 ... 24 V |
| input current at digital input for signal <1> maximum | 5.5 mA | 5.5 mA |
| number of electrical connections for digital output signals | 2 | 2 |

LOGO! logic modules

LOGO! communications modules

LOGO! CMR (wireless communication)**Technical specifications**

| Article number | 6GK7142-7BX00-0AX0 | 6GK7142-7EX00-0AX0 |
|--|--|---|
| product type designation | LOGO! CMR2020 | LOGO! CMR2040 |
| type of electrical connection for digital output signals | 3 pole terminal block | 3 pole terminal block |
| digital output version | transistor, not potential seperated | transistor, not potential seperated |
| output voltage at digital output | | |
| • for signal <1> | 12 ... 24 V; Value of the actual supply voltage | 12 ... 24 V; Value of the actual supply voltage |
| • for signal <0> | 0 ... 5 V | 0 ... 5 V |
| output current at digital output for signal <1> maximum | 0.3 A | 0.3 A |
| wireless technology | | |
| type of mobile wireless service | | |
| • is supported SMS | Yes | Yes |
| • is supported GPRS | Yes | Yes |
| • note | GPRS (Multislot Class 10, Mobile Station Class B) | LTE |
| type of wireless network is supported | | |
| • GSM | Yes | Yes |
| • UMTS | No | Yes |
| • LTE | No | Yes |
| operating frequency for GSM transmission | operating frequency for GSM transmission 850 MHz, operating frequency for GSM transmission 900 MHz, operating frequency for GSM transmission 1800 MHz, operating frequency for GSM transmission 1900 MHz | operating frequency for GSM transmission 900 MHz, operating frequency for GSM transmission 1800 MHz |
| operating frequency with UMTS transmission | | operating frequency with UMTS transmission 850 MHz, operating frequency with UMTS transmission 900 MHz, operating frequency with UMTS transmission 2100 MHz |
| operating frequency for LTE transmission | | operating frequency for LTE transmission 800 MHz, operating frequency for LTE transmission 1800 MHz, operating frequency for LTE transmission 2600 MHz |
| supply voltage, current consumption, power loss | | |
| type of voltage of the supply voltage | DC | DC |
| supply voltage external | 12 ... 24 V | 12 ... 24 V |
| supply voltage external at DC | 12 ... 24 V | 12 ... 24 V |
| supply voltage for GPS antenna maximum | 3.8 V; at 5 mA: 3,575 V / at 10 mA: 3,35 V / at 15 mA: 3,125 V | 3.8 V; at 5 mA: 3,575 V / at 10 mA: 3,35 V / at 15 mA: 3,125 V |
| relative positive tolerance at DC at 24 V | 20 % | 20 % |
| relative negative tolerance at DC at 12 V | 10 % | 10 % |
| consumed current | | |
| • from external supply voltage at DC at 12 V maximum | 0.25 A | 0.25 A |
| • from external supply voltage at DC at 24 V maximum | 0.125 A | 0.125 A |
| output current for GPS antenna maximum | 15 mA | 15 mA |
| power loss [W] | 3 W | 3 W |
| ambient conditions | | |
| ambient temperature | | |
| • during operation | -20 ... +70 °C | -20 ... +70 °C |
| • during storage | -40 ... +85 °C | -40 ... +85 °C |
| • during transport | -40 ... +85 °C | -40 ... +85 °C |
| relative humidity | | |
| • at 25 °C without condensation during operation maximum | 95 % | 95 % |
| protection class IP | IP20 | IP20 |

Technical specifications

| Article number | 6GK7142-7BX00-0AX0 | 6GK7142-7EX00-0AX0 |
|--|--|--|
| product type designation | LOGO! CMR2020 | LOGO! CMR2040 |
| design, dimensions and weights | | |
| module format | Compact module, for rail mounting | Compact module, for rail mounting |
| width | 71.5 mm | 71.5 mm |
| height | 90 mm | 90 mm |
| depth | 58.2 mm | 58.2 mm |
| net weight | 0.16 kg | 0.16 kg |
| fastening method | | |
| • 35 mm top hat DIN rail mounting | Yes | Yes |
| • wall mounting | Yes | Yes |
| product features, product functions, product components general | | |
| product function | | |
| • DynDNS client | Yes | Yes |
| • no-ip.com client | Yes | Yes |
| performance data | | |
| number of possible connections to the LOGO! logic module | 1 | 1 |
| number of users/telephone numbers/email addresses definable maximum | 20 | 20 |
| number of user groups definable maximum | 10 | 10 |
| number of signals for monitoring or device control definable maximum | 32 | 32 |
| number of events for monitoring definable maximum | 32 | 32 |
| number of actions definable maximum | 32 | 32 |
| number of assignments definable maximum | 32 | 32 |
| number of alias SMS commands definable maximum | 20 | 20 |
| number of constants definable maximum | 10 | 10 |
| performance data IT functions | | |
| number of possible connections | | |
| • as server by means of HTTP maximum | 2 | 2 |
| • as server by means of HTTPS maximum | 2; http and https can be combined (max. number of 2 connections cannot be exceeded). Max. one connection via https is possible on the mobile wireless interface. | 2; http and https can be combined (max. number of 2 connections cannot be exceeded). Max. one connection via https is possible on the mobile wireless interface. |
| • as email client maximum | 1 | 1 |
| number of free texts for emails and SMS maximum | 20 | 20 |
| number of characters per free text for emails or SMS maximum | 160 | 160 |
| performance data teleservice | | |
| product function | | |
| • remote firmware update | Yes | Yes |
| • remote configuration | Yes | Yes |
| product functions management, configuration, engineering | | |
| configuration software | | |
| • required | Web interface | Web interface |
| product functions diagnostics | | |
| product function web-based diagnostics | Yes | Yes |

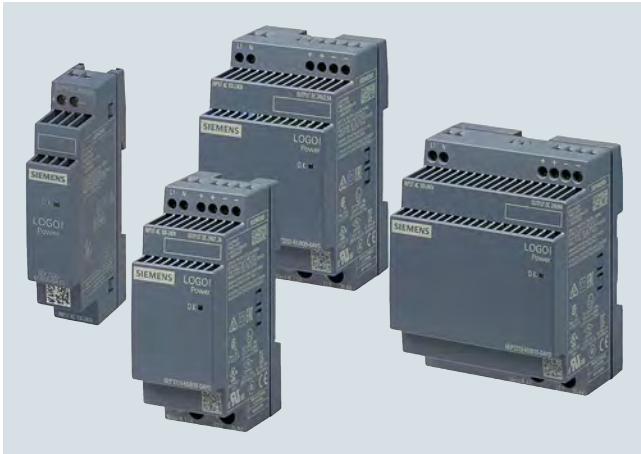
LOGO! logic modules

LOGO! communications modules

LOGO! CMR (wireless communication)**Technical specifications**

| Article number | 6GK7142-7BX00-0AX0 | 6GK7142-7EX00-0AX0 |
|--|----------------------------------|----------------------------------|
| product type designation | LOGO! CMR2020 | LOGO! CMR2040 |
| product functions security | | |
| operating mode Virtual Private Network (VPN) | Yes; Open VPN Server in PSK mode | Yes; Open VPN Server in PSK mode |
| product function with VPN connection | OpenVPN PSK | OpenVPN PSK |
| type of encryption algorithms with VPN connection | AES-128 CBC | AES-128 CBC |
| type of authentication with Virtual Private Network PSK | Yes | Yes |
| type of hashing algorithms with VPN connection | SHA-256 | SHA-256 |
| number of possible connections with VPN connection | 1 | 1 |
| product function | | |
| • password protection for Web applications | Yes | Yes |
| • password protection for VPN | Yes | Yes |
| • encrypted data transmission | Yes | Yes |
| • switch-off of non-required services | Yes | Yes |
| • log file for unauthorized access | Yes | Yes |
| product functions time | | |
| product function pass on time synchronization | Yes | Yes |
| accuracy of the hardware real time clock per day maximum | 7.5 s | 7.5 s |
| time synchronization | | |
| • from NTP-server | Yes | Yes |
| • from GPS-signal | Yes | Yes |
| • from mobile network provider | Yes | Yes |
| • PC | Yes | Yes |
| • manual setting | Yes | Yes |
| product functions position detection | | |
| product function | | |
| • position detection with GPS | Yes | Yes |
| • pass on position data | Yes | Yes |
| standards, specifications, approvals hazardous environments | | |
| certificate of suitability CCC for hazardous zone according to GB standard | Yes | Yes |

Overview



The flat power supply unit for distribution boards

Small. Clever. LOGO!Power: Thanks to its stepped profile design, the LOGO! 8 product line is ideally suited for installation in small distribution boards. The 12 V and 24 V versions are ideal for supplying LOGO! controllers with the corresponding voltage input. The high level of efficiency across the entire load range as well as the low no-load losses result in lower overall energy consumption. Greater convenience when commissioning and servicing thanks to the integrated current monitor. The extended ambient temperature range from -25 °C to +70 °C enables a host of additional applications.

To further increase 24 V availability, the 24 V LOGO!Power power supplies can be combined with the **buffer module BUF1200**, **DC UPS**, **redundancy** and **selectivity modules**.

This powerhouse can be used in any industry: e.g. in building technology applications for light and heating controllers or for access control systems. LOGO!Power is also well-suited for use in industrial automation, such as in packaging machine, machine tool, conveyor belt or sorting system applications.

Product highlights of the product line

- Low width with minimum of 18 mm to maximum of 72 mm, thus requiring very little space in the control cabinet or distribution board
- High energy efficiency with efficiency levels of up to 90% over the entire performance range and ERP-compliant no-load losses of < 0.3 W
- Global use due to operating temperature range from -25 °C to +70 °C and international certificates
- Supply of NEC Class 2 electric circuits with limited output current (100 VA)
- Load monitoring via current monitor using real-time measurement of the output current without disconnecting the cable, i.e. without interrupting the DC supply
- Flexible mounting with top hat DIN rail or wall mounting in different installation positions
- Flexible operation in all standard 1-phase supply networks thanks to wide-range input of 100 ... 240 V AC without switchover and operation on DC networks with 110 ... 300 V DC
- Reliability due to problem-free connection of loads with high inrush currents thanks to power reserve during startup as well as constant current in the event of overload

| Overall width | 18 mm | 36 mm | 54 mm | 72 mm |
|---------------|-------|-------|-------|-------|
| 24 V | 0.6 A | 1.3 A | 2.5 A | 4.0 A |
| 12 V | 0.9 A | 1.9 A | 4.5 A | |
| 5 V | | 3.0 A | 6.3 A | |
| 15 V | | 1.9 A | 4.0 A | |

LOGO! logic modules

LOGO!Power

1-phase, 5 V DC**Overview**

2



Thanks to its stepped profile design, the LOGO!Power product line is ideally suited for installation in small distribution boards. The stabilized power supplies with wide-range input are available with an output voltage of 5 V in two performance classes.

Product highlights

- Single-phase, 5 V DC/ 3 A and 6.3 A
- Wide-range input, input voltage 100 ... 240 V AC (85 ... 264 V), 110 ... 300 V DC
- Narrow unit with 36 mm or 54 mm width and overall depth of 53 mm in LOGO! design
- Up to 80% efficiency
- Integrated current monitor: Actual output current measurement directly at the power supply unit
- cULus, cURus, NEC class 2, ABS, DNV GL certifications

Ordering data**Article No.****Article No.****LOGO!Power 1-phase, 5 V DC/3 A**

Stabilized power supply
Input: 100 ... 240 V AC
(110 ... 300 V AC)
Output: 5 V DC/3 A

6EP3310-6SB00-0AY0**LOGO!Power 1-phase, 5 V DC/6.3 A**

Stabilized power supply
Input: 100 ... 240 V AC
(110 ... 300 V AC)
Output: 5 V DC/6.3 A

6EP3311-6SB00-0AY0**Technical specifications**

| Article number | 6EP3310-6SB00-0AY0 | 6EP3311-6SB00-0AY0 |
|---|---|--|
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 5 V/3 A | 5 V/6.3 A |
| Input | | |
| Input | 1-phase AC or DC | 1-phase AC or DC |
| Rated voltage value $V_{in rated}$ | 100 ... 240 V | 100 ... 240 V |
| Voltage range AC input voltage | 85 ... 264 V | 85 ... 264 V |
| • at DC | 110 ... 300 V | 110 ... 300 V |
| Wide-range input | Yes | Yes |
| Overvoltage resistance | 300 V AC for 1 s | 300 V AC for 1 s |
| Mains buffering | at $V_{in} = 187 V$ | at $V_{in} = 187 V$ |
| Mains buffering at $I_{out rated}$, min. | 40 ms; at $V_{in} = 187 V$ | 40 ms; at $V_{in} = 187 V$ |
| Rated line frequency 1 | 50 Hz | 50 Hz |
| Rated line frequency 2 | 60 Hz | 60 Hz |
| Rated line range input current | 47 ... 63 Hz | 47 ... 63 Hz |
| • at rated input voltage 120 V | 0.36 A | 0.71 A |
| • at rated input voltage 230 V | 0.22 A | 0.37 A |
| Switch-on current limiting (+25 °C), max. | 26 A | 50 A |
| I^2t , max. | 0.8 A ² ·s | 3 A ² ·s |
| Built-in incoming fuse | internal | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

Technical specifications

| Article number | 6EP3310-6SB00-0AY0 | 6EP3311-6SB00-0AY0 |
|--|--|--|
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 5 V/3 A | 5 V/6.3 A |
| Output | | |
| Output | Controlled, isolated DC voltage | Controlled, isolated DC voltage |
| Rated voltage V_{out} DC | 5 V | 5 V |
| <ul style="list-style-type: none"> output voltage at output 1 at DC rated value | 5 V | 5 V |
| Total tolerance, static \pm | 3 % | 3 % |
| Static mains compensation, approx. | 0.1 % | 0.1 % |
| Static load balancing, approx. | 0.1 % | 0.1 % |
| Residual ripple peak-peak, max. | 100 mV | 100 mV |
| Residual ripple peak-peak, typ. | 30 mV | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 100 mV | 100 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV | 50 mV |
| Adjustment range | 4.6 ... 5.4 V | 4.6 ... 5.4 V |
| product function output voltage adjustable | Yes | Yes |
| Output voltage setting | via potentiometer | via potentiometer |
| Status display | Green LED for output voltage OK | Green LED for output voltage OK |
| On/off behavior | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) |
| Startup delay, max. | 0.5 s | 0.5 s |
| Voltage rise, typ. | 100 ms | 100 ms |
| Rated current value I_{out} rated | 3 A | 6.3 A |
| Current range | 0 ... 3 A | 0 ... 6.3 A |
| <ul style="list-style-type: none"> Note | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 15 W | 31.5 W |
| Parallel switching for enhanced performance | Yes | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 | 2 |
| Efficiency | | |
| Efficiency at V_{out} rated, I_{out} rated, approx. | 76 % | 80 % |
| Power loss at V_{out} rated, I_{out} rated, approx. | 5 W | 8 W |
| power loss [W] during no-load operation maximum | 0.3 W | 0.3 W |
| Closed-loop control | | |
| Dynamic mains compensation (V_{in} rated ± 15 %), max. | 0.2 % | 0.2 % |
| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 5 % | 7 % |
| Load step setting time 10 to 90%, typ. | 1 ms | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms | 1 ms |
| Protection and monitoring | | |
| Output overvoltage protection | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 |
| Current limitation, typ. | 3.8 A | 8.2 A |
| property of the output short-circuit proof | Yes | Yes |
| Short-circuit protection enduring short circuit current RMS value | Constant current characteristic | Constant current characteristic |
| <ul style="list-style-type: none"> maximum | 3.8 A | 8.2 A |
| overcurrent overload capability in normal operation | overload capability 150% I_{out} rated typ. 200 ms | overload capability 150% I_{out} rated typ. 200 ms |
| Overload/short-circuit indicator | - | - |
| measuring point for output current | 50 mV $\hat{=}$ 3 A | 50 mV $\hat{=}$ 6.3 A |
| overcurrent overload capability when switching on | 150% I_{out} rated typ. 200 ms | 150% I_{out} rated typ. 200 ms |

LOGO! logic modules

LOGO!Power

1-phase, 5 V DC

Technical specifications

| Article number | 6EP3310-6SB00-0AY0 | 6EP3311-6SB00-0AY0 |
|--|---|--|
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 5 V/3 A | 5 V/6.3 A |
| Safety | | |
| Primary/secondary isolation galvanic isolation | Yes | Yes |
| Protection class | Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178 |
| Degree of protection (EN 60529) | Class II (without protective conductor) | Class II (without protective conductor) |
| | IP20 | IP20 |
| Approvals | | |
| CE mark | Yes | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273 |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 |
| certificate of suitability NEC Class 2 | Yes | No |
| FM approval | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes | Yes |
| certificate of suitability EAC approval | Yes | Yes |
| Marine approval | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS |
| EMC | | |
| Emitted interference | EN 55022 Class B | EN 55022 Class B |
| Supply harmonics limitation | not applicable | not applicable |
| Noise immunity | EN 61000-6-2 | EN 61000-6-2 |
| environmental conditions | | |
| ambient temperature | | |
| • during operation | -25 ... +70 °C | -25 ... +70 °C |
| - Note | with natural convection | with natural convection |
| • during transport | -40 ... +85 °C | -40 ... +85 °C |
| • during storage | -40 ... +85 °C | -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | | |
| Connection technology | screw-type terminals | screw-type terminals |
| Connections | | |
| • Supply input | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| • Output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² |
| • Auxiliary | - | - |
| width of the enclosure | 36 mm | 54 mm |
| height of the enclosure | 90 mm | 90 mm |
| depth of the enclosure | 53 mm | 53 mm |
| required spacing | | |
| • top | 20 mm | 20 mm |
| • bottom | 20 mm | 20 mm |
| • left | 0 mm | 0 mm |
| • right | 0 mm | 0 mm |
| Weight, approx. | 0.12 kg | 0.2 kg |
| product feature of the enclosure housing can be lined up | Yes | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 2 931 709 h | 2 654 280 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

Overview



Thanks to its stepped profile design, the LOGO!Power product line is ideally suited for installation in small distribution boards. The stabilized power supplies with wide-range input are available with an output voltage of 12 V in three performance classes. The 12 V versions are ideal for supplying LOGO! PLCs with the corresponding voltage input.

Product highlights

- Single-phase, 12 V DC/ 0.9 A, 1.9 A and 4.5 A
- Wide-range input, input voltage 100 ... 240 V AC (85 ... 264 V), 110 ... 300 V DC
- Narrow unit with width of 18 mm, 36 mm or 54 mm and overall depth of 53 mm in LOGO! design
- Up to 87.1% efficiency
- Integrated current monitor: Actual output current measurement directly at the power supply unit (for devices at least 36 mm wide)
- cULus, cURus, NEC class 2, ABS, DNV GL certifications

Ordering data

LOGO!Power 1-phase, 12 V DC/0.9 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 12 V DC/0.9 A

Article No.

6EP3320-6SB00-0AY0

LOGO!Power 1-phase, 12 V DC/1.9 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 12 V DC/1.9 A

6EP3321-6SB00-0AY0

Article No.

LOGO!Power 1-phase, 12 V DC/4.5 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 12 V DC/4.5 A

6EP3322-6SB00-0AY0

Add-on modules

SITOP redundancy modules RED1200

For more information, visit:
<https://www.siemens.com/sitop-redundancy/mail>

Technical specifications

| Article number | 6EP3320-6SB00-0AY0 | 6EP3321-6SB00-0AY0 | 6EP3322-6SB00-0AY0 |
|---|---|---|--|
| Product | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 12 V/0.9 A | 12 V/1.9 A | 12 V/4.5 A |
| Input | | | |
| Input | 1-phase AC or DC | 1-phase AC or DC | 1-phase AC or DC |
| Rated voltage value $V_{in rated}$ | 100 ... 240 V | 100 ... 240 V | 100 ... 240 V |
| Voltage range AC input voltage | 85 ... 264 V | 85 ... 264 V | 85 ... 264 V |
| • at DC | 110 ... 300 V | 110 ... 300 V | 110 ... 300 V |
| Wide-range input | Yes | Yes | Yes |
| Overvoltage resistance | 300 V AC for 1 s | 300 V AC for 1 s | 300 V AC for 1 s |
| Mains buffering | at $V_{in} = 187 V$ | at $V_{in} = 187 V$ | at $V_{in} = 187 V$ |
| Mains buffering at $I_{out rated, min}$ | 40 ms; at $V_{in} = 187 V$ | 40 ms; at $V_{in} = 187 V$ | 40 ms; at $V_{in} = 187 V$ |
| Rated line frequency 1 | 50 Hz | 50 Hz | 50 Hz |
| Rated line frequency 2 | 60 Hz | 60 Hz | 60 Hz |
| Rated line range | 47 ... 63 Hz | 47 ... 63 Hz | 47 ... 63 Hz |
| input current | | | |
| • at rated input voltage 120 V | 0.3 A | 0.53 A | 1.13 A |
| • at rated input voltage 230 V | 0.2 A | 0.3 A | 0.61 A |
| Switch-on current limiting (+25 °C), max. | 20 A | 25 A | 50 A |
| I^2t , max. | 0.8 A ² ·s | 0.8 A ² ·s | 3 A ² ·s |
| Built-in incoming fuse | internal | internal | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

LOGO! logic modules

LOGO!Power

1-phase, 12 V DC

Technical specifications

| Article number | 6EP3320-6SB00-0AY0 | 6EP3321-6SB00-0AY0 | 6EP3322-6SB00-0AY0 |
|--|--|--|--|
| Product | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 12 V/0.9 A | 12 V/1.9 A | 12 V/4.5 A |
| Output | | | |
| Output | Controlled, isolated DC voltage | Controlled, isolated DC voltage | Controlled, isolated DC voltage |
| Rated voltage V_{out} DC | 12 V | 12 V | 12 V |
| <ul style="list-style-type: none"> output voltage at output 1 at DC rated value | 12 V | 12 V | 12 V |
| Total tolerance, static \pm | 3 % | 3 % | 3 % |
| Static mains compensation, approx. | 0.1 % | 0.1 % | 0.1 % |
| Static load balancing, approx. | 0.1 % | 0.1 % | 0.1 % |
| Residual ripple peak-peak, max. | 200 mV | 200 mV | 200 mV |
| Residual ripple peak-peak, typ. | 30 mV | 30 mV | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV | 300 mV | 300 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV | 50 mV | 50 mV |
| Adjustment range | | 10.5 ... 16.1 V | 10.5 ... 16.1 V |
| product function output voltage adjustable | No | Yes | Yes |
| Output voltage setting | | via potentiometer | via potentiometer |
| Status display | Green LED for output voltage OK | Green LED for output voltage OK | Green LED for output voltage OK |
| On/off behavior | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) |
| Startup delay, max. | 0.5 s | 0.5 s | 0.5 s |
| Voltage rise, typ. | 100 ms | 100 ms | 100 ms |
| Rated current value $I_{out rated}$ | 0.9 A | 1.9 A | 4.5 A |
| Current range | 0 ... 0.9 A | 0 ... 1.9 A | 0 ... 4.5 A |
| <ul style="list-style-type: none"> Note | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 10.8 W | 22.8 W | 54 W |
| Parallel switching for enhanced performance | No | Yes | Yes |
| Numbers of parallel switchable units for enhanced performance | | 2 | 2 |
| Efficiency | | | |
| Efficiency at $V_{out rated}$, $I_{out rated}$, approx. | 78 % | 81 % | 87.1 % |
| Power loss at $V_{out rated}$, $I_{out rated}$, approx. | 3 W | 5 W | 8 W |
| power loss [W] during no-load operation maximum | 0.3 W | 0.3 W | 0.3 W |
| Closed-loop control | | | |
| Dynamic mains compensation ($V_{in rated} \pm 15 \%$), max. | 0.2 % | 0.2 % | 0.2 % |
| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 3 % | 2 % | 4 % |
| Load step setting time 10 to 90%, typ. | 1 ms | 1 ms | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms | 1 ms | 1 ms |
| Protection and monitoring | | | |
| Output overvoltage protection | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 |
| Current limitation, typ. | 1.3 A | 2.5 A | 5 A |
| property of the output short-circuit proof | Yes | Yes | Yes |
| Short-circuit protection enduring short circuit current RMS value | Constant current characteristic | Constant current characteristic | Constant current characteristic |
| <ul style="list-style-type: none"> maximum | 1.3 A | 2.5 A | 5 A |
| overcurrent overload capability in normal operation | overload capability 150% $I_{out rated}$ typ. 200 ms | overload capability 150% $I_{out rated}$ typ. 200 ms | overload capability 150% $I_{out rated}$ typ. 200 ms |
| Overload/short-circuit indicator | - | - | - |
| measuring point for output current | | 50 mV $\hat{=}$ 1.9 A | 50 mV $\hat{=}$ 4.5 A |
| overcurrent overload capability when switching on | 150% $I_{out rated}$ typ. 200 ms | 150% $I_{out rated}$ typ. 200 ms | 150% $I_{out rated}$ typ. 200 ms |

Technical specifications

| Article number | 6EP3320-6SB00-0AY0 | 6EP3321-6SB00-0AY0 | 6EP3322-6SB00-0AY0 |
|--|---|---|---|
| Product | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 12 V/0.9 A | 12 V/1.9 A | 12 V/4.5 A |
| Safety | | | |
| Primary/secondary isolation | Yes | Yes | Yes |
| galvanic isolation | Safety extra-low output voltage $U_{o, out}$ acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage $U_{o, out}$ acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage $U_{o, out}$ acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) | Class II (without protective conductor) | Class II (without protective conductor) |
| Degree of protection (EN 60529) | IP20 | IP20 | IP20 |
| Approvals | | | |
| CE mark | Yes | Yes | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 |
| certificate of suitability NEC Class 2 | Yes | Yes | No |
| FM approval | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes | Yes | Yes |
| certificate of suitability EAC approval | Yes | Yes | Yes |
| Marine approval | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS |
| EMC | | | |
| Emitted interference | EN 55022 Class B | EN 55022 Class B | EN 55022 Class B |
| Supply harmonics limitation | not applicable | not applicable | not applicable |
| Noise immunity | EN 61000-6-2 | EN 61000-6-2 | EN 61000-6-2 |
| environmental conditions | | | |
| ambient temperature | | | |
| • during operation | -25 ... +70 °C | -25 ... +70 °C | -25 ... +70 °C |
| - Note | with natural convection | with natural convection | with natural convection |
| • during transport | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C |
| • during storage | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | | | |
| Connection technology | screw-type terminals | screw-type terminals | screw-type terminals |
| Connections | | | |
| • Supply input | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| • Output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² |
| • Auxiliary | - | - | - |
| width of the enclosure | 18 mm | 36 mm | 54 mm |
| height of the enclosure | 90 mm | 90 mm | 90 mm |
| depth of the enclosure | 53 mm | 53 mm | 53 mm |
| required spacing | | | |
| • top | 20 mm | 20 mm | 20 mm |
| • bottom | 20 mm | 20 mm | 20 mm |
| • left | 0 mm | 0 mm | 0 mm |
| • right | 0 mm | 0 mm | 0 mm |
| Weight, approx. | 0.07 kg | 0.12 kg | 0.2 kg |
| product feature of the enclosure housing can be lined up | Yes | Yes | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 3 793 080 h | 2 938 542 h | 2 566 680 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

LOGO! logic modules

LOGO!Power

1-phase, 15 V DC**Overview**

2



Thanks to its stepped profile design, the LOGO!Power product line is ideally suited for installation in small distribution boards. The stabilized power supplies with a wide-range input are available with an output voltage of 15 V in two performance classes.

Product highlights

- Single-phase, 15 V DC/ 1.9 A and 4.0 A
- Wide-range input, input voltage 100 ... 240 V AC (85 ... 264 V), 110 ... 300 V DC
- Narrow unit with 36 mm or 54 mm width and overall depth of 53 mm in LOGO! design
- Up to 88.4% efficiency
- Integrated current monitor: Actual output current measurement directly at the power supply unit
- cULus, cURus, NEC class 2, ABS, BV, DNV GL, LRS certifications

Ordering data**Article No.****LOGO!Power 1-phase, 15 V DC/1.9 A**

Stabilized power supply
Input: 100 ... 240 V AC
(110 ... 300 V DC)
Output: 15 V DC/1.9 A

6EP3321-6SB10-0AY0**LOGO!Power 1-phase, 15 V DC/4 A**

Stabilized power supply
Input: 100 ... 240 V AC
(110 ... 300 V DC)
Output: 15 V DC/4 A

6EP3322-6SB10-0AY0**Add-on modules****SITOP redundancy modules RED1200**

For more information, visit:
<https://www.siemens.com/sitop-redundancy/mall>

Technical specifications

| Article number | 6EP3321-6SB10-0AY0 | 6EP3322-6SB10-0AY0 |
|---|---|--|
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 15 V/1.9 A | 15 V/4 A |
| Input | | |
| Input | 1-phase AC or DC | 1-phase AC or DC |
| Rated voltage value $V_{in rated}$ | 100 ... 240 V | 100 ... 240 V |
| Voltage range AC input voltage | 85 ... 264 V | 85 ... 264 V |
| • at DC | 110 ... 300 V | 110 ... 300 V |
| Wide-range input | Yes | Yes |
| Oversvoltage resistance | 300 V AC for 1 s | 300 V AC for 1 s |
| Mains buffering | at $V_{in} = 187$ V | at $V_{in} = 187$ V |
| Mains buffering at $I_{out rated, min.}$ | 40 ms; at $V_{in} = 187$ V | 40 ms; at $V_{in} = 187$ V |
| Rated line frequency 1 | 50 Hz | 50 Hz |
| Rated line frequency 2 | 60 Hz | 60 Hz |
| Rated line range input current | 47 ... 63 Hz | 47 ... 63 Hz |
| • at rated input voltage 120 V | 0.63 A | 1.24 A |
| • at rated input voltage 230 V | 0.33 A | 0.68 A |
| Switch-on current limiting (+25 °C), max. | 25 A | 55 A |
| I^2t , max. | 0.8 A ² ·s | 3 A ² ·s |
| Built-in incoming fuse | internal | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

Technical specifications

| Article number | 6EP3321-6SB10-0AY0 | 6EP3322-6SB10-0AY0 |
|--|---|---|
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 15 V/1.9 A | 15 V/4 A |
| Output | | |
| Output | Controlled, isolated DC voltage | Controlled, isolated DC voltage |
| Rated voltage V_{out} DC | 15 V | 15 V |
| <ul style="list-style-type: none"> output voltage at output 1 at DC rated value | 15 V | 15 V |
| Total tolerance, static \pm | 3 % | 3 % |
| Static mains compensation, approx. | 0.1 % | 0.1 % |
| Static load balancing, approx. | 0.1 % | 0.1 % |
| Residual ripple peak-peak, max. | 200 mV | 200 mV |
| Residual ripple peak-peak, typ. | 30 mV | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV | 300 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV | 50 mV |
| Adjustment range | 10.5 ... 16.1 V | 10.5 ... 16.1 V |
| product function output voltage adjustable | Yes | Yes |
| Output voltage setting | via potentiometer | via potentiometer |
| Status display | Green LED for output voltage OK | Green LED for output voltage OK |
| On/off behavior | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) |
| Startup delay, max. | 0.5 s | 0.5 s |
| Voltage rise, typ. | 100 ms | 100 ms |
| Rated current value $I_{out\ rated}$ | 1.9 A | 4 A |
| Current range | 0 ... 1.9 A | 0 ... 4 A |
| <ul style="list-style-type: none"> Note | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 28.5 W | 60 W |
| Parallel switching for enhanced performance | Yes | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 | 2 |
| Efficiency | | |
| Efficiency at $V_{out\ rated}$, $I_{out\ rated}$, approx. | 83 % | 88.4 % |
| Power loss at $V_{out\ rated}$, $I_{out\ rated}$, approx. | 6 W | 8 W |
| power loss [W] during no-load operation maximum | 0.3 W | 0.3 W |
| Closed-loop control | | |
| Dynamic mains compensation ($V_{in\ rated} \pm 15\%$), max. | 0.2 % | 0.2 % |
| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 2 % | 3 % |
| Load step setting time 10 to 90%, typ. | 1 ms | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms | 1 ms |
| Protection and monitoring | | |
| Output overvoltage protection | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 |
| Current limitation, typ. | 2.5 A | 5 A |
| property of the output short-circuit proof | Yes | Yes |
| Short-circuit protection enduring short circuit current RMS value | Constant current characteristic | Constant current characteristic |
| <ul style="list-style-type: none"> maximum | 2.5 A | 5 A |
| overcurrent overload capability in normal operation | overload capability 150% $I_{out\ rated}$ typ. 200 ms | overload capability 150% $I_{out\ rated}$ typ. 200 ms |
| Overload/short-circuit indicator | - | - |
| measuring point for output current | 50 mV $\hat{=}$ 1.9 A | 45 mV $\hat{=}$ 4 A |
| overcurrent overload capability when switching on | 150% $I_{out\ rated}$ typ. 200 ms | 150% $I_{out\ rated}$ typ. 200 ms |

LOGO! logic modules

LOGO!Power

1-phase, 15 V DC

Technical specifications

| | | |
|--|---|---|
| Article number | 6EP3321-6SB10-0AY0 | 6EP3322-6SB10-0AY0 |
| Product | LOGO!Power | LOGO!Power |
| Power supply, type | 15 V/1.9 A | 15 V/4 A |
| Safety | | |
| Primary/secondary isolation galvanic isolation | Yes | Yes |
| Protection class | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 |
| Degree of protection (EN 60529) | Class II (without protective conductor) IP20 | Class II (without protective conductor) IP20 |
| Approvals | | |
| CE mark | Yes | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 |
| certificate of suitability NEC Class 2 | Yes | Yes |
| FM approval | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes | Yes |
| certificate of suitability EAC approval | Yes | Yes |
| Marine approval | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS |
| EMC | | |
| Emitted interference | EN 55022 Class B | EN 55022 Class B |
| Supply harmonics limitation | not applicable | not applicable |
| Noise immunity | EN 61000-6-2 | EN 61000-6-2 |
| environmental conditions | | |
| ambient temperature | | |
| • during operation | -25 ... +70 °C | -25 ... +70 °C |
| - Note | with natural convection | with natural convection |
| • during transport | -40 ... +85 °C | -40 ... +85 °C |
| • during storage | -40 ... +85 °C | -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | | |
| Connection technology | screw-type terminals | screw-type terminals |
| Connections | | |
| • Supply input | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| • Output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² |
| • Auxiliary | - | - |
| width of the enclosure | 36 mm | 54 mm |
| height of the enclosure | 90 mm | 90 mm |
| depth of the enclosure | 53 mm | 53 mm |
| required spacing | | |
| • top | 20 mm | 20 mm |
| • bottom | 20 mm | 20 mm |
| • left | 0 mm | 0 mm |
| • right | 0 mm | 0 mm |
| Weight, approx. | 0.12 kg | 0.2 kg |
| product feature of the enclosure housing can be lined up | Yes | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 2 938 542 h | 2 566 680 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

Overview


Thanks to its stepped profile design, the LOGO!Power product line is ideally suited for installation in small distribution boards. The stabilized power supplies with wide-range input are available with an output voltage of 24 V in four performance classes. The 24 V versions are ideal for supplying LOGO! PLCs with the corresponding voltage input.

To further increase the 24 V availability, the LOGO!Power power supplies can be combined with **DC UPS, redundancy** and **selectivity modules**.

Product highlights

- Single-phase, 24 V DC/ 0.6 A, 1.3 A, 2.5 A and 4.0 A
- Input voltage 100 ... 240 V AC (85 ... 264 V), 110 ... 300 V DC
- Narrow unit with width of 18 mm, 36 mm, 54 mm or 72 mm and overall depth of 53 mm in LOGO! design
- Up to 90% efficiency
- Integrated current monitor: Actual output current measurement directly at the power supply unit (for devices at least 36 mm wide)
- cULus, cURus, NEC class 2, ABS, BV, DNV GL, LRS certifications

Ordering data
Article No.
LOGO!Power 1-phase, 24 V DC/0.6 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 24 V DC/0.6 A

6EP3330-6SB00-0AY0
LOGO!Power 1-phase, 24 V DC/1.3 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 24 V DC/1.3 A

6EP3331-6SB00-0AY0
LOGO!Power 1-phase, 24 V DC/2.5 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 24 V DC/2.5 A

6EP3332-6SB00-0AY0
LOGO!Power 1-phase, 24 V DC/4 A

Stabilized power supply
 Input: 100 ... 240 V AC
 (110 ... 300 V DC)
 Output: 24 V DC/4 A

6EP3333-6SB00-0AY0
Add-on modules
SITOP redundancy modules

For more information, visit:
<https://www.siemens.com/sitop-redundancy/mail>

SITOP selectivity modules

For more information, visit:
<https://www.siemens.com/sitop-selectivity/mail>

SITOP buffer module BUF1200

For more information, visit:
<https://www.siemens.com/sitop-buffering/mail>

DC UPS modules
SITOP DC UPS

For more information, visit:
<https://www.siemens.com/sitop-ups/mail>

LOGO! logic modules

LOGO!Power

1-phase, 24 V DC

Technical specifications

| Article number | 6EP3330-6SB00-0AY0 | 6EP3331-6SB00-0AY0 | 6EP3332-6SB00-0AY0 | 6EP3333-6SB00-0AY0 |
|---|---|---|--|--|
| Product | LOGO!Power | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 24 V/0.6 A | 24 V/1.3 A | 24 V/2.5 A | 24 V/4 A |
| Input | | | | |
| Input | 1-phase AC or DC | 1-phase AC or DC | 1-phase AC or DC | 1-phase AC or DC |
| Rated voltage value $V_{in rated}$ | 100 ... 240 V | 100 ... 240 V | 100 ... 240 V | 100 ... 240 V |
| Voltage range AC input voltage | 85 ... 264 V | 85 ... 264 V | 85 ... 264 V | 85 ... 264 V |
| • at DC | 110 ... 300 V | 110 ... 300 V | 110 ... 300 V | 110 ... 300 V |
| Wide-range input | Yes | Yes | Yes | Yes |
| Overvoltage resistance | 300 V AC for 1 s | 300 V AC for 1 s | 300 V AC for 1 s | 300 V AC for 1 s |
| Mains buffering | at $V_{in} = 187$ V | at $V_{in} = 187$ V | at $V_{in} = 187$ V | at $V_{in} = 187$ V |
| Mains buffering at $I_{out rated, min.}$ | 40 ms; at $V_{in} = 187$ V | 40 ms; at $V_{in} = 187$ V | 40 ms; at $V_{in} = 187$ V | 40 ms; at $V_{in} = 187$ V |
| Rated line frequency 1 | 50 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated line frequency 2 | 60 Hz | 60 Hz | 60 Hz | 60 Hz |
| Rated line range input current | 47 ... 63 Hz | 47 ... 63 Hz | 47 ... 63 Hz | 47 ... 63 Hz |
| • at rated input voltage 120 V | 0.3 A | 0.7 A | 1.22 A | 1.95 A |
| • at rated input voltage 230 V | 0.2 A | 0.35 A | 0.66 A | 0.97 A |
| Switch-on current limiting (+25 °C), max. | 20 A | 25 A | 52 A | 31 A |
| I^2t , max. | 0.8 A ² ·s | 0.8 A ² ·s | 3 A ² ·s | 2.5 A ² ·s |
| Built-in incoming fuse | internal | internal | internal | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |
| Output | | | | |
| Output | Controlled, isolated DC voltage | Controlled, isolated DC voltage | Controlled, isolated DC voltage | Controlled, isolated DC voltage |
| Rated voltage $V_{out DC}$ | 24 V | 24 V | 24 V | 24 V |
| • output voltage at output 1 at DC rated value | 24 V | 24 V | 24 V | 24 V |
| Total tolerance, static ± | 3 % | 3 % | 3 % | 3 % |
| Static mains compensation, approx. | 0.1 % | 0.1 % | 0.1 % | 0.1 % |
| Static load balancing, approx. | 0.1 % | 0.1 % | 0.1 % | 0.1 % |
| Residual ripple peak-peak, max. | 200 mV | 200 mV | 200 mV | 200 mV |
| Residual ripple peak-peak, typ. | 30 mV | 30 mV | 30 mV | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV | 300 mV | 300 mV | 300 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV | 50 mV | 50 mV | 50 mV |
| Adjustment range | | 22.2 ... 26.4 V | 22.2 ... 26.4 V | 22.2 ... 26.4 V |
| product function output voltage adjustable | No | Yes | Yes | Yes |
| Output voltage setting | | via potentiometer | via potentiometer | via potentiometer |
| Status display | Green LED for output voltage OK | Green LED for output voltage OK | Green LED for output voltage OK | Green LED for output voltage OK |
| On/off behavior | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) | No overshoot of V_{out} (soft start) |
| Startup delay, max. | 0.5 s | 0.5 s | 0.5 s | 0.5 s |
| Voltage rise, typ. | 100 ms | 100 ms | 100 ms | 100 ms |
| Rated current value $I_{out rated}$ | 0.6 A | 1.3 A | 2.5 A | 4 A |
| Current range | 0 ... 0.6 A | 0 ... 1.3 A | 0 ... 2.5 A | 0 ... 4 A |
| • Note | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K | +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 14.4 W | 31.2 W | 60 W | 96 W |
| Parallel switching for enhanced performance | No | Yes | Yes | Yes |
| Numbers of parallel switchable units for enhanced performance | | 2 | 2 | 2 |

Technical specifications

| Article number | 6EP3330-6SB00-0AY0 | 6EP3331-6SB00-0AY0 | 6EP3332-6SB00-0AY0 | 6EP3333-6SB00-0AY0 |
|--|---|---|---|--|
| Product | LOGO!Power | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 24 V/0.6 A | 24 V/1.3 A | 24 V/2.5 A | 24 V/4 A |
| Efficiency | | | | |
| Efficiency at $V_{out\ rated}$, $I_{out\ rated}$, approx. | 81 % | 86 % | 90 % | 89 % |
| Power loss at $V_{out\ rated}$, $I_{out\ rated}$, approx. | 3 W | 5 W | 7 W | 12 W |
| power loss [W] during no-load operation maximum | 0.3 W | 0.3 W | 0.3 W | 0.3 W |
| Closed-loop control | | | | |
| Dynamic mains compensation ($V_{in\ rated} \pm 15\%$), max. | 0.2 % | 0.2 % | 0.2 % | 0.2 % |
| Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ. | 2 % | 1 % | 2 % | 2 % |
| Load step setting time 10 to 90%, typ. | 1 ms | 1 ms | 1 ms | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms | 1 ms | 1 ms | 1 ms |
| Protection and monitoring | | | | |
| Output overvoltage protection | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 | Yes, according to EN 60950-1 |
| Current limitation, typ. | 0.8 A | 1.7 A | 3.2 A | 5 A |
| property of the output short-circuit proof | Yes | Yes | Yes | Yes |
| Short-circuit protection | Constant current characteristic | Constant current characteristic | Constant current characteristic | Constant current characteristic |
| enduring short circuit current RMS value | | | | |
| • maximum | 0.8 A | 1.7 A | 3.2 A | 5 A |
| overcurrent overload capability in normal operation | overload capability 150% $I_{out\ rated}$ typ. 200 ms | overload capability 150% $I_{out\ rated}$ typ. 200 ms | overload capability 150% $I_{out\ rated}$ typ. 200 ms | overload capability 150% $I_{out\ rated}$ typ. 200 ms |
| Overload/short-circuit indicator | - | - | - | - |
| measuring point for output current | | 50 mV = ^ 1.3 A | 50 mV = ^ 2.5 A | 50 mV = ^ 4 A |
| overcurrent overload capability when switching on | 150% $I_{out\ rated}$ typ. 200 ms | 150% $I_{out\ rated}$ typ. 200 ms | 150% $I_{out\ rated}$ typ. 200 ms | 150% $I_{out\ rated}$ typ. 200 ms |
| Safety | | | | |
| Primary/secondary isolation galvanic isolation | Yes | Yes | Yes | Yes |
| Protection class | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 | Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178 |
| Degree of protection (EN 60529) | Class II (without protective conductor) | Class II (without protective conductor) | Class II (without protective conductor) | Class II (without protective conductor) |
| | IP20 | IP20 | IP20 | IP20 |
| Approvals | | | | |
| CE mark | Yes | Yes | Yes | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) | cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273 |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 | ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866 |
| certificate of suitability NEC Class 2 | Yes | Yes | Yes | No |
| FM approval | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes | Yes | Yes | Yes |
| certificate of suitability EAC approval | Yes | Yes | Yes | Yes |
| Marine approval | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS | ABS, BV, DNV GL, LRS |
| EMC | | | | |
| Emitted interference | EN 55022 Class B | EN 55022 Class B | EN 55022 Class B | EN 55022 Class B |
| Supply harmonics limitation | not applicable | not applicable | not applicable | EN 61000-3-2 |
| Noise immunity | EN 61000-6-2 | EN 61000-6-2 | EN 61000-6-2 | EN 61000-6-2 |

LOGO! logic modules

LOGO!Power

1-phase, 24 V DC**Technical specifications**

| Article number | 6EP3330-6SB00-0AY0 | 6EP3331-6SB00-0AY0 | 6EP3332-6SB00-0AY0 | 6EP3333-6SB00-0AY0 |
|--|---|---|---|---|
| Product | LOGO!Power | LOGO!Power | LOGO!Power | LOGO!Power |
| Power supply, type | 24 V/0.6 A | 24 V/1.3 A | 24 V/2.5 A | 24 V/4 A |
| environmental conditions | | | | |
| ambient temperature | | | | |
| • during operation | -25 ... +70 °C | -25 ... +70 °C | -25 ... +70 °C | -25 ... +70 °C |
| - Note | with natural convection | with natural convection | with natural convection | with natural convection |
| • during transport | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C |
| • during storage | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C | -40 ... +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | | | | |
| Connection technology | screw-type terminals | screw-type terminals | screw-type terminals | screw-type terminals |
| Connections | | | | |
| • Supply input | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| • Output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² | +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² |
| • Auxiliary | - | - | - | - |
| width of the enclosure | 18 mm | 36 mm | 54 mm | 72 mm |
| height of the enclosure | 90 mm | 90 mm | 90 mm | 90 mm |
| depth of the enclosure | 53 mm | 53 mm | 53 mm | 53 mm |
| required spacing | | | | |
| • top | 20 mm | 20 mm | 20 mm | 20 mm |
| • bottom | 20 mm | 20 mm | 20 mm | 20 mm |
| • left | 0 mm | 0 mm | 0 mm | 0 mm |
| • right | 0 mm | 0 mm | 0 mm | 0 mm |
| Weight, approx. | 0.07 kg | 0.12 kg | 0.2 kg | 0.29 kg |
| product feature of the enclosure housing can be lined up | Yes | Yes | Yes | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 4 415 040 h | 3 094 996 h | 2 864 520 h | 2 391 480 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

Overview



Thanks to its stepped profile design, the SIPLUS LOGO!Power product family is ideally suited for low installation depths, such as in miniature distribution boards. The stabilized power supplies with a wide range input of 100 ... 240 V AC (85 ... 264 V) and 110 ... 300 V DC are available with an output voltage of 24 V in four performance classes. The 24 V versions are ideal for supplying SIPLUS LOGO! controllers with the corresponding voltage input. The high level of efficiency across the entire load range as well as the low no-load losses result in lower overall energy consumption. Greater convenience when commissioning and servicing thanks to integrated current monitor (for devices at least 36 mm wide). The extended temperature range enables a host of additional applications.

Main product highlights

- 24 V DC / 0.6 A, 1.3 A, 2.5 A and 4.0 A
- Narrow unit with width of 18 mm, 36 mm, 54 mm or 72 mm and overall depth of 53 mm in LOGO! design
- Flexible mounting: top hat DIN rail or wall mounting in a range of installation positions
- Higher energy efficiency: up to 90% efficiency over the entire load range as well as no-load power losses of < 0.3 W
- Integrated current monitor: Actual output current measurement directly at the power supply unit (for devices at least 36 mm wide)
- Global use: International certifications such as UL, CSA, FM or ATEX

Ordering data

Article No.

SIPLUS LOGO!Power 24 V 1.3 A
 Extended temperature range and exposure to media

Input 100 ... 240 V AC
 Output 24 V DC, 1.3 A

6AG1331-6SB00-7AY0

SIPLUS LOGO!Power 24 V 2.5 A
 Extended temperature range and exposure to media

Input 100 ... 240 V AC
 Output 24 V DC, 2.5 A

6AG1332-6SB00-7AY0

SIPLUS LOGO!Power 24 V 4 A
 Extended temperature range and exposure to media

Input 100 ... 240 V AC
 Output 24 V DC, 4 A

6AG1333-6SB00-7AY0

LOGO! logic modules

SIPLUS LOGO!Power

SIPLUS LOGO!Power

Technical specifications

| Article number | 6AG1331-6SB00-7AY0 | 6AG1332-6SB00-7AY0 | 6AG1333-6SB00-7AY0 |
|--|--|--|--|
| Based on | 6EP3331-6SB00-0AY0 | 6EP3332-6SB00-0AY0 | 6EP3333-6SB00-0AY0 |
| Product | SIPLUS LOGO!Power | SIPLUS LOGO!Power | SIPLUS LOGO!Power |
| Power supply, type | 24 V/1.3 A | 24 V/2.5 A | 24 V/4 A |
| environmental conditions | | | |
| ambient temperature in horizontal mounting position during operation minimum | -40; Startup @ -25 °C ... +70; with natural convection | -40; Startup @ -25 °C ... +70; with natural convection | -40; Startup @ -25 °C ... +70; with natural convection |
| ambient temperature in horizontal mounting position during operation maximum | | | |
| ambient temperature during storage and transport | -40 ... +85 | -40 ... +85 | -40 ... +85 |
| installation altitude at height above sea level maximum | 6 000 m | 6 000 m | 6 000 m |
| ambient condition relating to ambient temperature - air pressure - installation altitude | In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m | In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m | In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m |
| relative humidity with condensation acc. to IEC 60068-2-38 maximum | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation |
| chemical resistance to commercially available cooling lubricants | Yes; incl. diesel and oil droplets in the air | Yes; incl. diesel and oil droplets in the air | Yes; incl. diesel and oil droplets in the air |
| resistance to biologically active substances conformity acc. to EN 60721-3-3 | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request |
| resistance to chemically active substances conformity acc. to EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) | Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) | Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances conformity acc. to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust | Yes; Class 3S4 incl. sand, dust | Yes; Class 3S4 incl. sand, dust |
| resistance to biologically active substances conformity acc. to EN 60721-3-6 | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) |
| resistance to chemically active substances conformity acc. to EN 60721-3-6 | Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) | Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) | Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances conformity acc. to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust | Yes; Class 6S3 incl. sand, dust | Yes; Class 6S3 incl. sand, dust |
| coating for equipped printed circuit board acc. to EN 61086 | Yes; Class 2 for high availability | Yes; Class 2 for high availability | Yes; Class 2 for high availability |
| type of coating protection against pollution according to EN 60664-3 | Yes; Type 1 protection | Yes; Type 1 protection | Yes; Type 1 protection |
| type of test of the coating acc. to MIL-I-46058C | Yes; Discoloration of the coating during service life possible | Yes; Discoloration of the coating during service life possible | Yes; Discoloration of the coating during service life possible |
| product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A | Yes; Conformal Coating, Class A | Yes; Conformal Coating, Class A | Yes; Conformal Coating, Class A |

Overview


- The user-friendly software for generating switching programs on the PC for single-user mode and network mode
- Generation of switching programs in a function block diagram (FBD) or ladder logic (LAD)
- Furthermore, testing, simulation, online testing and archiving of the switching programs
- Professional documentation with the help of various comment and print functions

Minimum system requirements

Windows XP (32-bit), 7 (32/64-bit) or 8 (32/64-bit)

- PC Pentium IV.
- 150 MB free disk capacity.
- 256 MB RAM.
- SVGA graphics card with minimum resolution 800 x 600 (256 colors).
- DVD-ROM

Mac OS X

- Mac OS X 10.4

Linux

- Tested with SUSE Linux 11.3 SP2, kernel 3.0.76
- Runs on all Linux distributions on which Java 2 runs.
- Please refer to your relevant Linux distribution for the necessary hardware requirements.

Ordering data
LOGO!Soft Comfort V8

for programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD

Article No.
6ED1058-0BA08-0YA1

LOGO! logic modules

LOGO! Starter Kits

LOGO! Starter Kits

Overview



There are now six LOGO! 8 Starter Kits for price-conscious beginners – each individually configured for the specific requirements.

- LOGO! Starter Kit 12/24RCE;
With LOGO! 12/24RCE, power supply, screwdriver, in Systainer
- LOGO! Starter Kit 130 RCE;
With LOGO! 230RCE, power supply, screwdriver, in Systainer
- LOGO! Starter Kit 12/24 V;
With LOGO! 12/24RCEO, LOGO! TD, power supply, screwdriver, in Systainer
- LOGO! 8 KP300 Basic Starter Kit;
With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KP300 Basic mono PN
- LOGO! 8 KTP400 Basic Starter Kit;
With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP400 Basic
- LOGO! 8 KTP700 Basic Starter Kit;
With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP700 Basic

With these low-cost complete packages, users can familiarize themselves quickly and easily with the advantages and possibilities of the logic module. LOGO! has been used successfully for many years in industry and trade throughout the world. It solves switching and control tasks conveniently and cost-effectively.

Ordering data

Article No.

LOGO! Starter Kits

In TANOS Box,
with LOGO! Soft Comfort V8,
WinCC Basic, Ethernet cable

LOGO! Starter Kit 12/24RCE

6ED1057-3BA01-0AA8

With LOGO! 12/24RCE,
power supply, screwdriver,
in Systainer

LOGO! Starter Kit 130 RCE

6ED1057-3BA03-0AA8

With LOGO! 230RCE,
power supply, screwdriver,
in Systainer

LOGO! Starter Kit 12/24 V

6ED1057-3BA11-0AA8

With LOGO! 12/24RCEO,
LOGO! TD, power supply,
screwdriver, in Systainer

LOGO! 8 KP300 Basic Starter Kit

6AV2132-0HA00-0AA1

With LOGO! 12/24RCE,
LOGO! Power 24 V 1.3 A,
KP300 Basic mono PN

LOGO! 8 KTP400 Basic Starter Kit

6AV2132-0KA00-0AA1

With LOGO! 12/24RCE,
LOGO! Power 24 V 1.3 A,
KTP400 Basic

LOGO! 8 KTP700 Basic Starter Kit

6AV2132-3GB00-0AA1

With LOGO! 12/24RCE,
LOGO! Power 24 V 1.3 A,
KTP700 Basic

Overview


- Switching module for the direct switching of resistive loads and motors

Ordering data
LOGO!Contact

Switching module for direct switching of resistive loads up to 20 A and motors up to 4 kW

Switching voltage 24 V

Switching voltage 230 V

Article No.
6ED1057-4CA00-0AA0
6ED1057-4EA00-0AA0
Technical specifications

| Article number | 6ED1057-4CA00-0AA0 | 6ED1057-4EA00-0AA0 |
|---|-------------------------------------|-------------------------------------|
| | LOGO! Contact Mod., DC 24V, 3NO/1NC | LOGO! Contact Mod., AC 230V,3NO/1NC |
| Standards, approvals, certificates | | |
| CE mark | Yes | Yes |
| Ambient conditions | | |
| Ambient temperature during operation | | |
| • min. | -25 °C | -25 °C |
| • max. | 55 °C | 55 °C |
| Dimensions | | |
| Width | 36 mm | 36 mm |
| Height | 72 mm | 72 mm |
| Depth | 55 mm | 55 mm |
| Weights | | |
| Weight, approx. | 160 g | 160 g |

LOGO! logic modules

LOGO! Accessories

LOGO! mounting kits**Overview**

2



LOGO! and SIPLUS LOGO! are designed for quick and easy mounting on top hat DIN rails. With the mounting kit, these devices can also be easily and safely installed in front panels. If the supplied washer and seals are used, the devices are reliably protected against harsh environmental conditions up to the IP65 degree of protection.

Ordering data**Article No.****Front panel mounting kit**

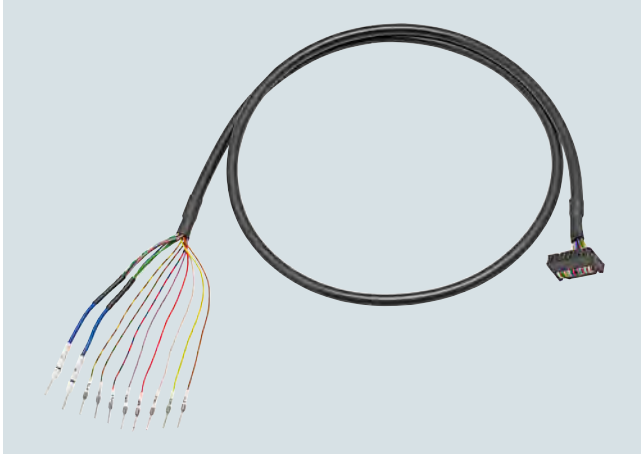
Width 4 MW, with keys

6AG1057-1AA00-0AA3

Width 8 MW, with keys

6AG1057-1AA00-0AA2

Overview



SIMATIC TOP connect universal connecting cable

The wiring of the

- SIMATIC S7-1500 IO (25 mm)
- SIMATIC ET 200SP
- SIMATIC S7-1200
- LOGO!

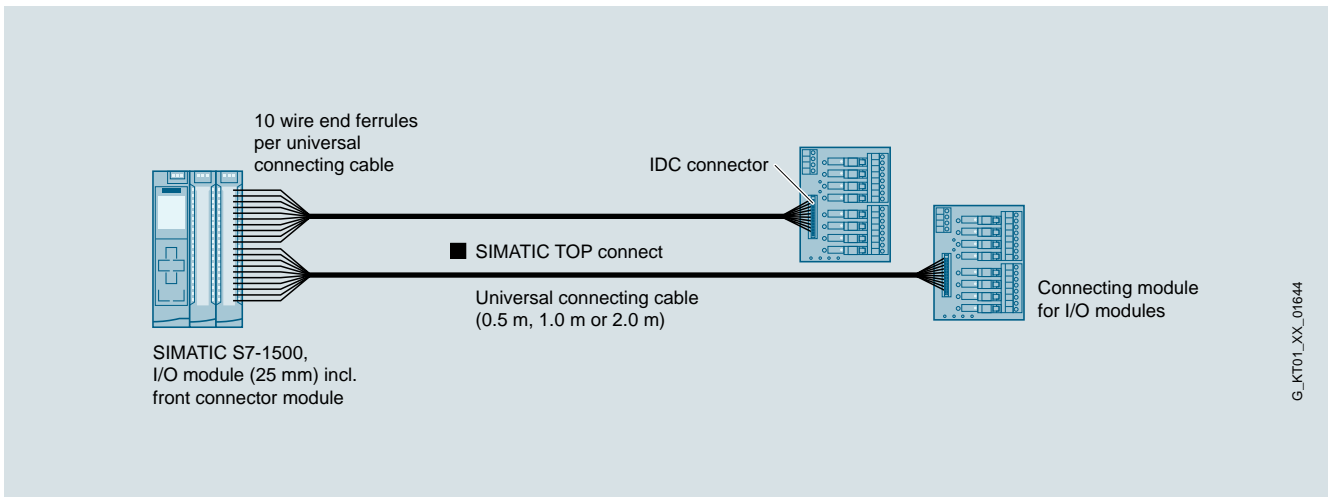
with the sensors/actuators is a significant factor with respect to time/cost overhead during configuration, control cabinet design, procurement and ease of servicing. The SIMATIC TOP connect system cabling makes connection easy, fast and secure.

Design

The unshielded universal connecting cable is offered for a wide range of control cabinet concepts.

It comprises:

- 16-pin round cable with a core diameter of 0.14 mm², pre-assembled with wire end ferrules for connection to the controller:
 - labeled with "0" ... "7" for the control inputs/outputs
 - labeled with "M" for mass
 - labeled with "L+" for 24 V DC potential
- 16-pin ID (insulation displacement) connector for connection to the SIMATIC TOP connect terminal modules for 8 I/Os:
 - 3-wire connection using the appropriate terminal module for quick, error-free wiring
 - Galvanic isolation and adaptation using a coupling relay for easy implementation of potential groups in the system
 - High output current (up to 4 A), even for higher switching frequencies, using an optocoupler module (overload and short-circuit proof)
 - Implementation of isolating terminals using switch modules enabling individual signals to be measured
 - Channel-wise protection of I/Os using a fuse module with a thermal fuse



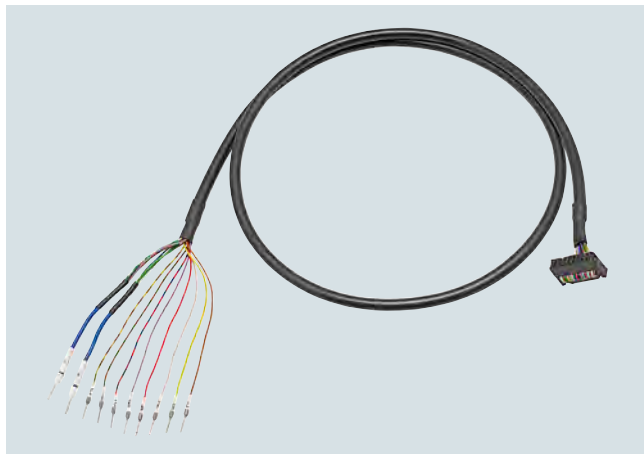
SIMATIC TOP connect universal connecting cable

LOGO! logic modules

LOGO! Accessories

System cabling for SIMATIC S7-1500 IO (25 mm), ET 200SP, S7-1200 and LOGO!

Overview Universal connecting cable



SIMATIC TOP connect universal connecting cable

The universal connecting cable constitutes the link between the standard connection of the SIMATIC S7-1500 IO (25 mm), SIMATIC ET 200SP, SIMATIC S7-1200 or LOGO! and the SIMATIC TOP connect terminal module. It transmits 8 signals and the supply voltage. The connecting cable is available in lengths of 0.5 m / 1.0 m / 2.0 m. the maximum technically feasible length is 30 m.

Ordering data

Article No.

Universal connecting cable for SIMATIC S7-1500 IO (25 mm), SIMATIC ET 200SP, SIMATIC S7-1200 and LOGO!

16 x 0.14 mm² unshielded

- 0.5 m
- 1.0 m
- 2.0 m

6ES7923-0BA50-0FB0

6ES7923-0BB00-0FB0

6ES7923-0BC00-0FB0

Overview Terminal modules

The terminal modules are used instead of conventional terminal blocks and act as the interface between the controller and signals from the field. All digital modules with 8 I/Os can be used.

Ordering data

Article No.

Terminal module TP1

For 1-wire connection, for 16-pin connecting cables

- Push-in terminals without LEDs
- Screw-type terminals without LEDs
- Push-in terminals with LEDs
- Screw-type terminals with LEDs

6ES7924-0AA20-0AC0

6ES7924-0AA20-0AA0

6ES7924-0AA20-0BC0

6ES7924-0AA20-0BA0

Terminal module TP3

For 3-wire connection, for 16-pin connecting cables

- Push-in terminals without LEDs
- Screw-type terminals without LEDs
- Push-in terminals with LEDs
- Screw-type terminals with LEDs
- Push-in terminals with LEDs and one isolating terminal per channel
- Screw-type terminals with LEDs and one isolating terminal per channel
- Push-in terminals with LEDs and fuse per channel
- Screw-type terminals with LEDs and fuse per channel

6ES7924-0CA20-0AC0

6ES7924-0CA20-0AA0

6ES7924-0CA20-0BC0

6ES7924-0CA20-0BA0

6ES7924-0CH20-0BC0

6ES7924-0CH20-0BA0

6ES7924-0CL20-0BC0

6ES7924-0CL20-0BA0

Terminal module TPRo

Relay module for 8 outputs, relay as normally open contact

- Push-in terminals with LEDs
- Screw-type terminals with LEDs

6ES7924-0BD20-0BC0

6ES7924-0BD20-0BA0

Terminal module TPRI

Relay module for 8 inputs (1230 V AC), relay as normally open contact

- Push-in terminals with LEDs
- Screw-type terminals with LEDs

6ES7924-0BE20-0BC0

6ES7924-0BE20-0BA0

Terminal module TPRI

Relay module for 8 inputs (110 V AC), relay as normally open contact

- Push-in terminals with LEDs
- Screw-type terminals with LEDs

6ES7924-0BG20-0BC0

6ES7924-0BG20-0BA0

Terminal module TPOo

Optocoupler module for 8 outputs (max. 24 V DC/4 A)

- Push-in terminals with LEDs
- Screw-type terminals with LEDs

6ES7924-0BF20-0BC0

6ES7924-0BF20-0BA0