

LOGO! logic module



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LOGO! logic module

Introduction

LOGO! logic module

Overview



LOGO! logic module

- 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
- 43 different functions can be connected at the press of a button or by means of PC software; up to 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 ambient conditions
- With extended temperature range from -40/-25 °C to +70 °C
- Suitable for exposure to environmental substances (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, conveyor technology, food industry, etc.

Accessories:

- The front panel mounting kit also allows simple and reliable installation of the logic modules in front panels; degree of protection IP65 is thus possible.
- In order to ensure dependable operation of 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!.

More information is available at:

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

General technical specifications of the SIPLUS LOGO!

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

Ambient conditions

Extended range of ambient conditions	
<ul style="list-style-type: none"> • With reference to ambient temperature, air pressure and installation 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) 0 °C
<ul style="list-style-type: none"> • At cold restart, min. 	
Relative humidity	
<ul style="list-style-type: none"> • With condensation, max. 	100%; RH incl. condensation/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.

LOGO! logic module

LOGO! basic and expansion modules

LOGO! basic modules with display

Overview



- The space-saving basic versions
- 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 devices with integrated web server for TD-based web pages and/or user-defined web pages
- Enclosure width 72 mm (4 U)
- All basic units with Ethernet interface for communication with LOGO! 8, LOGO! TDE, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro SD cards

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Ordering data

LOGO! 8 logic module

LOGO! 24CE

Logic module, display PS/I/O: 24 V/24 V/24 V trans., 8 DI (4 AI)/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

Article No.

6ED1052-1CC08-0BA2

LOGO! 12/24RCE

Logic module, display PS/I/O: 12/24 V DC/relay, 8 DI (4 AI)/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

6ED1052-1MD08-0BA2

LOGO! 24RCE

Logic module, display PS/I/O: 24 V AC/24 V DC/relay, 8 DI/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

6ED1052-1HB08-0BA2

LOGO! 230RCE

Logic module, display PS/I/O: 115 V/230 V/relay, 8 DI/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

6ED1052-1FB08-0BA2

Accessories

LOGO! TD text display

6 lines, 3 background colors, 2 Ethernet ports, mounting accessories for LOGO! 8

Article No.

6ED1055-4MH08-0BA1

LOGO! SOFT Comfort V8

Single license for 1 installation E-SW, LWEE, Integrity Test Tool, SW and documentation on DVD, 6 languages, executable under Windows XP, 7, 8, 10 (32 and 64-bit) and Windows 11, Mac OSx 10.14 Mojave, Mac OS 10.15 Big Sur, Mac OS 12.1 Monterey, Linux SUSE 15 (64-bit)

6ED1058-0BA08-0YA1

LOGO! Starter Kits

LOGO! Starter Kit 12/24RCE V8.3

With LOGO! 12/24RCE, LOGO! Soft Comfort, WinCC Basic, power supply, screwdriver, in Systainer

6ED1057-4BA01-0AA0

LOGO! Starter Kit 230RCE V8.3

With LOGO! 230RCE, LOGO! Soft Comfort, WinCC Basic, screwdriver in Systainer

6ED1057-4BA03-0AA0

LOGO! TD Starter Kit 12/24 V8.3

With LOGO! TD, LOGO! 12/24RCE, LOGO! Soft Comfort, power supply, WinCC Basic, screwdriver in Systainer

6ED1057-4BA11-0AA0

Front panel mounting kit

SIPLUS LOGO! front panel mounting kit 4 MW

For LOGO!+SIPLUS extreme with buttons, -40...+70 °C,

6AG1057-1AA00-0AA3

SIPLUS LOGO! front panel mounting kit 8 MW

For LOGO!+SIPLUS extreme with buttons, -40...+70 °C,

6AG1057-1AA00-0AA2

LOGO! ICL230 inrush current limiter

Input: 100-240 V AC
Output: 100-240 V AC/5 A

6EP4683-6LB00-0AY0

LOGO! logic module

LOGO! basic and expansion modules

LOGO! basic modules with display

Technical specifications

Article number	6ED1052-1CC08-0BA2 LOGO! 24CE, 8DI(4AI)/4DO, 400 Blocks	6ED1052-1MD08-0BA2 LOGO!12/24RCE, 8DI(4AI)/4DO, 400 Blocks	6ED1052-1HB08-0BA2 LOGO! 24RCE, 8DI/4DO, 400 Blocks	6ED1052-1FB08-0BA2 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	No; covered by UL cert			
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; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
Ambient conditions				
Ambient temperature during operation				
• min.	-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 module

LOGO! basic and expansion modules

LOGO! basic modules without display

Overview



- Basic versions 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 devices with integrated web server for TD-based web pages and/or user-defined web pages
- Enclosure width 72 mm (4 U)
- All basic units with Ethernet interface for communication with LOGO! 8, LOGO! TDE, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro SD cards

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Ordering data

Article No.

Article No.

LOGO! 8 logic module

LOGO! 24CEo

Logic module, without display, PS/I/O: 24 V/24 V/24 V trans., 8 DI (4 AI)/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

LOGO! 12/24RCEo

Logic module, without display, PS/I/O: 12/24 V DC/relay, 8 DI (4 AI)/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

LOGO! 24RCEo (AC)

Logic module, without display, PS/I/O: 24 V DC/24 V AC/relay, 8 DI/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

LOGO! 230RCEo

Logic module, without display, PS/I/O: 115 V/230 V/relay, 8 DI/4 DO, memory 400 blocks, modularly expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort from V8.4, older projects executable, cloud connection, MQTT in all LOGO! 8.4 basic devices

6ED1052-2CC08-0BA2

6ED1052-2MD08-0BA2

6ED1052-2HB08-0BA2

6ED1052-2FB08-0BA2

Accessories

LOGO! TD text display

6 lines, 3 background colors, 2 Ethernet ports, mounting accessories for LOGO! 8

LOGO! SOFT Comfort V8

Single license for 1 installation E-SW, LWEE, Integrity Test Tool, SW and documentation on DVD, 6 languages, executable under Windows XP, 7, 8, 10 (32 and 64-bit) and Windows 11, Mac OSx 10.14 Mojave, Mac OS 10.15 Big Sur, Mac OS 12.1 Monterey, Linux SUSE 15 (64-bit)

LOGO! Starter Kits

LOGO! Starter Kit 12/24RCE V8.3

With LOGO! 12/24RCE, LOGO! Soft Comfort, WinCC Basic, power supply, screwdriver, in Systainer

LOGO! Starter Kit 230RCE V8.3

With LOGO! 230RCE, LOGO! Soft Comfort, WinCC Basic, screwdriver in Systainer

LOGO! TD Starter Kit 12/24 V8.3

With LOGO! TD, LOGO! 12/24RCEo, LOGO! Soft Comfort, power supply, WinCC Basic, screwdriver in Systainer

LOGO! ICL230 inrush current limiter

Input: 100-240 V AC
Output: 100-240 V AC/5 A

6ED1055-4MH08-0BA1

6ED1058-0BA08-0YA1

6ED1057-4BA01-0AA0

6ED1057-4BA03-0AA0

6ED1057-4BA11-0AA0

6EP4683-6LB00-0AY0

LOGO! logic module

LOGO! basic and expansion modules

LOGO! basic modules without display

Technical specifications

Article number	6ED1052-2CC08-0BA2 LOGO! 24CEo, 8DI(4AI)/4DO, 400 Blocks	6ED1052-2MD08-0BA2 LOGO!12/24RCEO, 8DI(4AI)/4DO,400 Blocks	6ED1052-2HB08-0BA2 LOGO! 24RCEO, 8DI/4DO, 400 Blocks	6ED1052-2FB08-0BA2 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	Yes	Yes
• 12 V DC	Yes	Yes	Yes	Yes
• 24 V DC				Yes
• 115 V DC				Yes; 240 V DC
• 230 V DC				
Rated value (AC)			Yes	
• 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 ** 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	No; covered by UL cert			
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; in preparation	Yes; in preparation	Yes; in preparation	Yes; in preparation
Ambient conditions				
Ambient temperature during operation				
• min.	-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	58 mm	58 mm	58 mm	58 mm

LOGO! logic module

LOGO! basic and expansion modules

LOGO! expansion modules

Overview



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

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Ordering data

Ordering data	Article No.	Ordering data	Article No.
LOGO! 8 expansion modules		LOGO! AM2	6ED1055-1MA00-0BA2
LOGO! DM8 24 Expansion module, PS/I/O: 24 V/24 V/trans., 4 DI/4 DO for LOGO! 8	6ED1055-1CB00-0BA2	Expansion module, PS/: 12/24 V DC, 2 AI, 0-10 V or 0/4-20 mA for LOGO! 8	
LOGO! DM16 24 Expansion module, PS/I/O: 24 V DC/24 V DC/trans., 8 DI/8 DO, 4 MW for LOGO! 8	6ED1055-1CB10-0BA2	LOGO! AM2 RTD Expansion module, PS: 12/24 V DC, 2 AI -50...+200 °C Pt100/1000 for LOGO! 8	6ED1055-1MD00-0BA2
LOGO! DM8 12/24R Expansion module, PS/I/O: 12, 24 V/12 V/24 V/relay, 2 MW, 4 DI/4 DO for LOGO! 8	6ED1055-1MB00-0BA2	LOGO! AM2 AQ Expansion module, PS: 24 V DC, 2 AO, 0-10 V, 0/4-20 mA for LOGO! 8	6ED1055-1MM00-0BA2
LOGO! DM8 24R Expansion module, PS/I/O: 24 V/24 V/relay, 2 MW 4 DI/4 DO, AC/DC/NPN input for LOGO! 8	6ED1055-1HB00-0BA2	Accessories for LOGO! 8	
LOGO! DM16 24R Expansion module, PS/I/O: 24 V DC/24 V DC/relay, 8 DI/8 DO, 4 MW for LOGO! 8	6ED1055-1NB10-0BA2	LOGO! SOFT Comfort V8 Single license for 1 installation E-SW, LWE, Integrity Test Tool, SW and documentation on DVD, 6 languages, executable under Windows XP, 7, 8, 10 (32 and 64-bit) and Windows 11, Mac OSx 10.14 Mojave, Mac OS 10.15 Big Sur, Mac OS12:1 Monterey, Linux SUSE 15 (64-bit)	6ED1058-0BA08-0YA1
LOGO! DM8 230R Expansion module, PS/I/O: 230 V/230 V/relay, 2 MW, 4 DI/4 DO for LOGO! 8	6ED1055-1FB00-0BA2	LOGO! ICL230 inrush current limiter Input: 100-240 V AC Output: 100-240 V AC/5 A	6EP4683-6LB00-0AY0
LOGO! DM16 230R Expansion module, PS/I/O: 230 V/230 V/relay, 4 MW, 8 DI/8 DO for LOGO! 8	6ED1055-1FB10-0BA2		

LOGO! logic module

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	on 35 mm DIN rail, 2 spacing units wide			
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)				
• 12 V DC	Yes	Yes	Yes	Yes
• 24 V DC			Yes	
• 115 V DC				
• 230 V DC				
Rated value (AC)				
• 24 V AC	Yes	Yes		Yes
• 115 V AC				Yes
• 230 V AC				Yes
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
Degree and class of protection				
IP degree of protection	IP20	IP20	IP20	IP20

LOGO! logic module

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
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.	-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
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
<hr/>				
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				
Rated value (AC)	No	No	Yes Yes	
• 24 V AC				
• 115 V AC				
• 230 V AC			Yes Yes	
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 module

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
Degree and class of protection			
IP degree of protection	IP20	IP20	IP20
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.	-20 °C; No condensation	-20 °C; No condensation	-20 °C; No condensation
• 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

LOGO! logic module

LOGO! basic and expansion modules

LOGO! expansion modules**Technical specifications**

Article number	6ED1055-1MA00-0BA2 LOGO! AM2 Exp. mod., 12/24V, 2AI,	6ED1055-1MD00-0BA2 LOGO! AM2 RDT, 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
Degree and class of protection		
IP degree of protection	IP20	IP20
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.	-20 °C; No condensation	-20 °C; No condensation
• 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 module

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
Degree and class of protection	
IP degree of protection	IP20

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.	-20 °C; No condensation
• max.	55 °C
Dimensions	
Width	35.5 mm
Height	90 mm
Depth	58 mm

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LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules with display

Overview



- The space-saving basic versions
- 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
- All basic devices with integrated web server for TD-based web pages and/or user-defined web pages
- Enclosure width 72 mm (4 U)
- All basic units with Ethernet interface for communication with LOGO! 8, LOGO! TDE, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro SD cards

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 respective standard products. SIPLUS extreme-specific information was added.

Ordering data

Article No.

SIPLUS LOGO! 8 logic module

Extended temperature range and exposure to environmental substances

SIPLUS LOGO! 24CE

6AG1052-1CC08-7BA2

SIPLUS LOGO! 230RCE

6AG1052-1FB08-7BA2

SIPLUS LOGO! 24RCE

6AG1052-1HB08-7BA1

SIPLUS LOGO! 12/24RCE

6AG1052-1MD08-7BA2

Accessories

SIPLUS LOGO! TDE

6AG1055-4MH08-2BA1

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

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

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

Front panel mounting kit

6AG1057-1AA00-0AA2

Width 8 MW, with keys

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules with display

Technical specifications

Article number	6AG1052-1HB08-7BA1	6AG1052-1CC08-7BA2	6AG1052-1MD08-7BA2	6AG1052-1FB08-7BA2
Based on	6ED1052-1HB08-0BA1	6ED1052-1CC08-0BA2	6ED1052-1MD08-0BA2	6ED1052-1FB08-0BA2
	SIPLUS LOGO! 24RCE	SIPLUS LOGO! 24CE	SIPLUS LOGO! 12/24RCE	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.	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	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
• 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 module

LOGO! basic and expansion modules

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

Article number	6AG1052-1HB08-7BA1	6AG1052-1CC08-7BA2	6AG1052-1MD08-7BA2	6AG1052-1FB08-7BA2
Based on	6ED1052-1HB08-0BA1 SIPLUS LOGO! 24RCE	6ED1052-1CC08-0BA2 SIPLUS LOGO! 24CE	6ED1052-1MD08-0BA2 SIPLUS LOGO! 12/24RCE	6ED1052-1FB08-0BA2 SIPLUS LOGO! 230RCE
Usage in industrial process technology				
- Against chemically active substances acc. to EN 60654-4	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			
• Protection against fouling acc. to EN 60664-3	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			

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules without display

Overview



- Basic versions 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
- All basic devices with integrated web server for TD-based web pages and/or user-defined web pages
- Enclosure width 72 mm (4 U)
- All basic units with Ethernet interface for communication with LOGO!, SIMATIC Controllers, SIMATIC Panel and PC
- Use of standard micro SD 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

Extended temperature range and exposure to environmental substances

SIPLUS LOGO! 24CEO

6AG1052-2CC08-7BA2

SIPLUS LOGO! 230RCEO

6AG1052-2FB08-7BA1

SIPLUS LOGO! 230RCEO

6AG1052-2FB08-7BA2

SIPLUS LOGO! 24RCEO (AC)

6AG1052-2HB08-7BA2

SIPLUS LOGO! 12/24RCEO

6AG1052-2MD08-7BA1

Accessories

SIPLUS LOGO! TDE

6AG1055-4MH08-2BA1

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

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

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

Front panel mounting kit

Width 8 MW, with keys

6AG1057-1AA00-0AA2

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules without display

Technical specifications

Article number	6AG1052-2CC08-7BA2	6AG1052-2FB08-7BA1	6AG1052-2FB08-7BA2	6AG1052-2HB08-7BA2	6AG1052-2MD08-7BA1
Based on	6ED1052-2CC08-0BA2	6ED1052-2FB08-0BA1	6ED1052-2FB08-0BA2	6ED1052-2HB08-0BA2	6ED1052-2MD08-0BA1
	SIPLUS LOGO! 24CEO	SIPLUS LOGO! 23RCEO	SIPLUS LOGO! 23RCEO	SIPLUS LOGO! 24RCEO (AC)	SIPLUS LOGO! 12/24RCEO
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	-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 1 A per relay	70 °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)	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.	-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)	-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	2 000 m	2 000 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 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)	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	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	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	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); *	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, *	Yes; Class 3S4 incl. sand, dust, *

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! basic modules without display

Technical specifications

Article number	6AG1052-2CC08-7BA2	6AG1052-2FB08-7BA1	6AG1052-2FB08-7BA2	6AG1052-2HB08-7BA2	6AG1052-2MD08-7BA1
Based on	6ED1052-2CC08-0BA2	6ED1052-2FB08-0BA1	6ED1052-2FB08-0BA2	6ED1052-2HB08-0BA2	6ED1052-2MD08-0BA1
	SIPLUS LOGO! 24CEO	SIPLUS LOGO! 230RCEO	SIPLUS LOGO! 230RCEO	SIPLUS LOGO! 24RCEO (AC)	SIPLUS LOGO! 12/24RCEO
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	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); *	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; *				
Usage in industrial process technology					
- Against chemically active substances acc. to EN 60654-4	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)	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!	* 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				
• Protection against fouling acc. to EN 60664-3	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	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				

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules

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 taken 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 environmental substances	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 environmental substances	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 environmental substances	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 environmental substances	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 environmental substances	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 environmental substances	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 environmental substances	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 environmental substances	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 kit Width 8 MW, with keys	6AG1057-1AA00-0AA2

LOGO! logic module

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			
<ul style="list-style-type: none"> min. max. 	-40 °C; = Tmin; Startup @ -25 °C 70 °C; Tmax; Tmax > +55 °C max. load 0.2 A per output	-40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A	-40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; Tmax > +55 °C max. load 3 A per relay or max. total current 10 A
<ul style="list-style-type: none"> 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			
<ul style="list-style-type: none"> Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude 	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)	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)	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	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	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, *	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; *	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 module

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
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)	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	* 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; Discoloration of coating possible during service life Yes; Conformal coating, Class A	Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	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	6AG1055-1FB00-7BA2	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, *	

LOGO! logic module

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
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
- 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); *
- to mechanically active substances according to EN 60721-3-6	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)
- 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)
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!
Conformal coating		
• Coatings for printed circuit board assemblies acc. to EN 61086	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
• 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
• 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

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules**Technical specifications**

Article number	6AG1055-1MA00-7BA2
Based on	6ED1055-1MA00-0BA2 SIPLUS LOGO! AM2 V8
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C; = Tmin; Startup @ -25 °C
• max.	70 °C; = Tmax
• At cold restart, min.	-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
• 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)
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
Resistance	
Coolants and lubricants	
- Resistant to commercially available coolants and lubricants	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
- 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); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *

Article number	6AG1055-1MA00-7BA2
Based on	6ED1055-1MA00-0BA2 SIPLUS LOGO! AM2 V8
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
- 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); *
- to mechanically active substances according to EN 60721-3-6	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)
- 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)
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!
Conformal coating	
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	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

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules**Technical specifications**

Article number	6AG1055-1MM00-7BA2
Based on	6ED1055-1MM00-0BA2 SIPLUS LOGO! AM2 AQ V8
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C; = Tmin; Startup @ -25 °C
• max.	70 °C; = Tmax
• At cold restart, min.	-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
• 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)
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
Resistance	
Coolants and lubricants	
- Resistant to commercially available coolants and lubricants	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
- 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); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *

Article number	6AG1055-1MM00-7BA2
Based on	6ED1055-1MM00-0BA2 SIPLUS LOGO! AM2 AQ V8
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
- 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); *
- to mechanically active substances according to EN 60721-3-6	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)
- 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)
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!
Conformal coating	
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	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

LOGO! logic module

LOGO! basic and expansion modules

SIPLUS LOGO! expansion modules**Technical specifications**

Article number	6AG1055-1MD00-7BA2
Based on	6ED1055-1MD00-0BA2 SIPLUS LOGO! AM2 RTD
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C; = Tmin; Startup @ -25 °C
• max.	70 °C; = Tmax
• At cold restart, min.	-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
• 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)
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
Resistance	
Coolants and lubricants	
- Resistant to commercially available coolants and lubricants	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
- 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); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *

Article number	6AG1055-1MD00-7BA2
Based on	6ED1055-1MD00-0BA2 SIPLUS LOGO! AM2 RTD
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
- 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); *
- to mechanically active substances according to EN 60721-3-6	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)
- 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)
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!
Conformal coating	
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	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

LOGO! logic module

LOGO! communications modules

LOGO! communications modules

Overview



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

Note on compatibility:

Communications module	Can be used with:
LOGO! CMK2000 communications module	LOGO! 8
LOGO! CIM	LOGO! 8
LOGO! CSM 12/24	LOGO! 7/8
LOGO! CMR2040	LOGO! 8

LOGO! logic module

LOGO! communications modules

LOGO! CMK2000 communications module

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

LOGO! CMK2000

Communications module to integrate the LOGO! 8 in the building system bus KNX; connection 24 V DC 0.04 A
1 RJ45 port for Ethernet 50 communication objects time synchronization configuration/ diagnostics via web interface

Article No.

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
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 / header	
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
Degree and class of protection	
IP degree of protection	IP20
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
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 module

LOGO! communications modules

LOGO! CIM (Communication Interface Module)

Overview



- Expansion module for LOGO! 8 basic versions
- For transmitting and receiving SMS and transmission of data from LOGO! 8.3 basic units to the AWS Cloud
- The built-in ModbusRTU interface supports ModbusRTU participants with RS232, RS485 and RS422 interface
- With an integrated GNSS receiver for tracking and transmitting the position

Note:

For wireless operation, the following additional components are required (not included in the scope of supply of LOGO! CIM):

- Wireless engine
- Antennas
- Antenna connecting cable between wireless engine and antenna port (the corresponding products are recommended in the documentation)
- SIM card with activated data transmission

Ordering data

Article No.

LOGO! CIM Communication Interface Module
For LOGO! 8 Modbus RTU interface (RS232/485) 4-port switch; without 4G/LTE/GPS engine; without antennas; web configurator

6ED1055-5MC08-0BA2

Technical specifications

Article number	6ED1055-5MC08-0BA2 LOGO! CIM
General information	
Firmware version	V1.1
• 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, 12/24 V AC/DC
• 12 V DC	Yes
• 24 V DC	Yes
Rated value (AC)	
• 24 V AC	No

Article number	6ED1055-5MC08-0BA2 LOGO! CIM
Input current	
Current consumption, max.	1 A
Memory	
Flash	Yes; 2 MB NOR flash
Time of day	
Clock synchronization	
• supported	Yes
Interfaces	
Number of industrial Ethernet interfaces	4; 4 ports (switch)
Number of other interfaces	1; mini PCIe interface for 4G module
Protocols	
Web server	
• supported	Yes
communication functions / header	
S7 basic communication	
• supported	Yes
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
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
developed in accordance with IEC 61131	Yes
according to VDE 0631	No
Marine approval	No
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C
• max.	55 °C
Relative humidity	
• Operation, max.	95 %; no condensation
Dimensions	
Width	71.5 mm
Height	90 mm
Depth	58.5 mm; without antenna sockets
Weights	
Weight, approx.	200 g

LOGO! logic module

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 main features of the LOGO! CSM are:

- Unmanaged 4-port switch, of which one port is on the front for easy diagnostics access
- Power supply: 12/24 V 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

LOGO! CSM compact switch module

Unmanaged switch for connection of one LOGO! and up to three further stations 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

Article No.

6GK7177-1MA20-0AA0

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 RJ45 outlet

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

6GK1901-1FC00-0AA0

LOGO! logic module

LOGO! communications modules

LOGO! CSM unmanaged**Technical specifications**

Article number	6GK7177-1MA20-0AA0
product type designation	
product brand name	LOGO!
product type designation	CSM 12/24
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces for communication integrated	
number of electrical connections	4
• for network components or terminal equipment	
number of 100 Mbit/s SC ports	0
• for multimode	
interfaces other	
number of electrical connections	1
• for power supply	
type of electrical connection	3-pole terminal block
• for power supply	
supply voltage, current consumption, power loss	
type of voltage 1 of the supply voltage	DC
• supply voltage 1 rated value	24 V
• power loss [W] 1 rated value	1.5 W
• supply voltage 1 rated value	10.2 ... 30.2 V
• consumed current 1 maximum	0.15 A
• type of electrical connection 1 for power supply	3-pole terminal block
• product component 1 fusing at power supply input	Yes
ambient conditions	
ambient temperature	0 ... 55 °C
• during operation	
• during storage	
• during transport	
relative humidity	90 %
• at 25 °C without condensation during operation maximum	
protection class IP	IP20
design, dimensions and weights	
design	LOGO! module
width	71.5 mm
height	90 mm
depth	58.2 mm
net weight	0.15 kg
fastening method	Yes
• 35 mm DIN-rail mounting	
• wall mounting	
• S7-300 rail mounting	
• S7-1500 rail mounting	
product functions management, configuration, engineering	
product function	No
• multiport mirroring	
• switch-managed	No

Article number	6GK7177-1MA20-0AA0
standards, specifications, approvals	
certificate of suitability	Yes
• CE marking	
• cULus approval	
• KC approval	
• Regulatory Compliance Mark (RCM) standard	
• for safety from CSA and UL	UL 508, CSA C22.2 No. 142
standards, specifications, approvals hazardous environments	
certificate of suitability	Yes
• ATEX	
• UKEX	
• IECEX	
• ULhazloc approval	
• CCC for hazardous zone according to GB standard	
• FM registration	
standards, specifications, approvals other	
certificate of suitability	Yes
• RoHS conformity	
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration global warming potential [CO2 eq]	Yes
• total	57.94 kg
• during manufacturing	7.42 kg
• during operation	50.38 kg
• after end of life	0.14 kg
product functions general	
reference code	KF
• according to IEC 81346-2	
• according to IEC 81346-2:2019	KFE
further information internet links	
internet link	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
• to website: Selection guide for cables and connectors	
• to web page: selection aid TIA Selection Tool	
• to website: Industrial communication	
• to web page: SiePortal	
• to website: Image database	
• to website: CAX-Download-Manager	
• to website: Industry Online Support	

LOGO! logic module

LOGO! communications modules

LOGO! CMR (wireless communication)

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 convenient commissioning and diagnostics in web-based management via local and/or secure 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! 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.

Radio LOGO! CMR communications module

Communications modules for connection of LOGO! 8 to 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 via web interface;
 Please note country approvals under: <http://www.siemens.com/mobilenetwork-approvals>

LOGO! CMR2040

6GK7142-7EX00-0AX0

For connecting LOGO! 8 to an LTE network

Accessories

Mobile wireless antennas

ANT794-4MR

For indoor and outdoor use;
 5 m connecting cable permanently connected to antenna;
 SMA plug; incl. mounting bracket, screws, wall plugs

6NH9860-1AA00

ANT896-4M

Rod antenna for direct mounting on device; SMA male connector

6GK5896-4MA00-0AA3

ANT896-4ME

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

6GK5896-4ME00-0AA0

GPS antenna

ANT895-6ML

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

6GK5895-6ML00-0AA0

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 module

LOGO! communications modules

LOGO! CMR (wireless communication)

Ordering data	Article No.	Article No.
IWLAN RCoax/antenna N-Connect male/male flexible connection cable Flexible connecting cable for connecting an RCoax cable or antenna to a SCALANCE W700 access point with N-Connect connectors; pre-assembled with two N-Connect male connectors; suitable from 0 ... 6 GHz, IP68 <ul style="list-style-type: none"> • 1 m • 2 m • 5 m • 10 m 	6XV1875-5AH10 6XV1875-5AH20 6XV1875-5AH50 6XV1875-5AN10	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
Cabinet bushing 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	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 required quantity of cable glands and blanking plugs separately
LP798-2N lightning protector Lightning protector with N/N female/female connector for ANT 790 antennas, IP67 (-40 to +85 °C), frequency range: 0 ... 6 GHz	6GK5798-2LP00-2AA6	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 required quantity of cable glands and blanking plugs separately
Patch cable IE TP cord RJ45/RJ45 TP cable 4 x 2 with 2 RJ45 plugs <ul style="list-style-type: none"> • 0.5 m • 1 m • 2 m • 6 m • 10 m 	6XV1870-3QE50 6XV1870-3QH10 6XV1870-3QH20 6XV1870-3QH60 6XV1870-3QN10	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
IE FC RJ45 outlet For connection of Industrial Ethernet FC cables and TP cords; graded prices from 10 and 50 units	6GK1901-1FC00-0AA0	Blanking plug M16 for IP68 enclosure Blanking 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

LOGO! logic module

LOGO! communications modules

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

Article number	6GK7142-7EX00-0AX0
transfer rate	
transfer rate	
• at the 1st interface	10 ... 100 Mbit/s
• for GPRS transmission	
- with downlink maximum	85.6 kbit/s
- with uplink maximum	85.6 kbit/s
• for LTE transmission	
- with downlink maximum	100 Mbit/s
- with uplink maximum	50 Mbit/s
interfaces	
number of interfaces according to Industrial Ethernet	1
number of electrical connections	
• at the 1st interface according to Industrial Ethernet	1
• for external antenna(s)	2
• for power supply	1
number of slots	
• for SIM cards	1
• for memory cards	1
type of electrical connection	
• at the 1st interface according to Industrial Ethernet	RJ45 port
type of electrical connection	
• for external antenna(s)	SMA socket (50 ohms)
• for power supply	3-pole terminal block
type of antenna	
• at connection 1 connectable	GPS Antenna
• at connection 2 connectable	Mobile radio antenna (GPRS/GSM, UMTS, LTE)
wire length of antenna cable maximum	15 m
slot version	
• for SIM card	Standard
• of the memory card	microSD
storage capacity of the memory card maximum	32 Gbyte
performance class of the memory card minimum necessary	Class 6
type of file system type of file system	FAT32

Article number	6GK7142-7EX00-0AX0
signal inputs/outputs	
number of electrical connections for digital input signals	2
type of electrical connection for digital input signals	3 pole terminal block
digital input version	not galvanically isolated, not debounced
input voltage at digital input	
• with signal <0> at DC	0 ... 5 V
• for signal <1> at DC	8.5 ... 24 V
input current at digital input for signal <1> maximum	5.5 mA
number of electrical connections for digital output signals	2
type of electrical connection for digital output signals	3 pole terminal block
digital output version	transistor, not potential separated
output voltage at digital output	
• for signal <1>	12 ... 24 V; Value of the actual supply voltage
• for signal <0>	0 ... 5 V
output current at digital output for signal <1> maximum	0.3 A
wireless technology	
type of mobile wireless service is supported	
• SMS	Yes
• GPRS	Yes
•	LTE
type of wireless network is supported	
• GSM	Yes
• UMTS	Yes
• LTE	Yes
operating frequency for GSM transmission	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
supply voltage external	12 ... 24 V
supply voltage external at DC	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
relative positive tolerance at DC at 24 V	20 %
relative negative tolerance at DC at 12 V	10 %
consumed current	
• from external supply voltage at DC at 12 V maximum	0.25 A
• from external supply voltage at DC at 24 V maximum	0.125 A
output current for GPS antenna maximum	15 mA
power loss [W]	3 W

LOGO! logic module

LOGO! communications modules

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

Article number	6GK7142-7EX00-0AX0
ambient conditions	
ambient temperature	
• during operation	-20 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
relative humidity	
• at 25 °C without condensation during operation maximum	95 %
protection class IP	IP20
design, dimensions and weights	
module format	Compact module, for rail mounting
width	71.5 mm
height	90 mm
depth	58.2 mm
net weight	0.16 kg
fastening method	
• 35 mm DIN-rail mounting	Yes
• wall mounting	Yes
product features, product functions, product components general	
product function	
• DynDNS client	Yes
• no-ip.com client	Yes
performance data	
number of possible connections to the LOGO! logic module	1
number of users/telephone numbers/email addresses definable maximum	20
number of user groups definable maximum	10
number of signals for monitoring or device control definable maximum	32
number of events for monitoring definable maximum	32
number of actions definable maximum	32
number of assignments definable maximum	32
number of alias SMS commands definable maximum	20
number of constants definable maximum	10
performance data IT functions	
number of possible connections	
• as server by means of HTTP maximum	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.
• as email client maximum	1
number of free texts for emails and SMS maximum	20
number of characters per free text for emails or SMS maximum	160
performance data teleservice	
product function	
• remote firmware update	Yes
• remote configuration	Yes

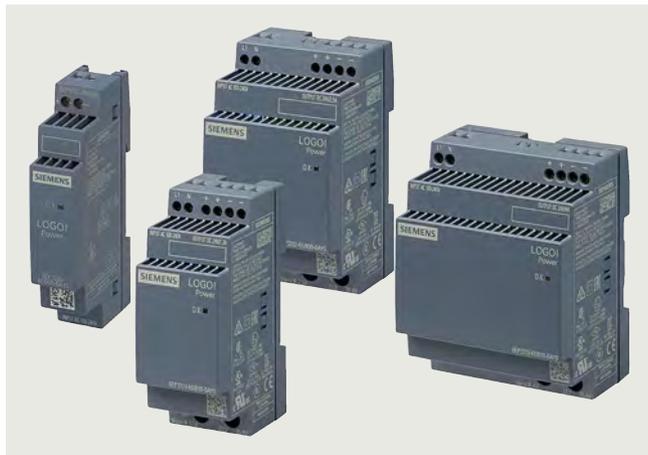
Article number	6GK7142-7EX00-0AX0
product functions management, configuration, engineering	
configuration software	
• required	Web interface
product functions diagnostics	
product function web-based diagnostics	Yes
product functions security	
operating mode Virtual Private Network (VPN)	Yes; Open VPN Server in PSK mode
product function with VPN connection	OpenVPN PSK
type of encryption algorithms with VPN connection	AES-128 CBC
type of authentication with Virtual Private Network PSK	Yes
type of hashing algorithms with VPN connection	SHA-256
number of possible connections with VPN connection	1
product function	
• password protection for Web applications	Yes
• password protection for VPN	Yes
• encrypted data transmission	Yes
• switch-off of non-required services	Yes
• log file for unauthorized access	Yes
product functions time	
product function pass on time synchronization	Yes
accuracy of the hardware real time clock per day maximum	7.5 s
time synchronization	
• from NTP-server	Yes
• from GPS-signal	Yes
• from mobile network provider	Yes
• PC	Yes
• manual setting	Yes
product functions position detection	
product function	
• position detection with GPS	Yes
• pass on position data	Yes
standards, specifications, approvals	
reference code	
• according to IEC 81346-2:2019	KEC
further information internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

LOGO! logic module

LOGO!Power

LOGO!Power

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 supply units can be combined with the **BUF1200 buffer module, 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 module

LOGO!Power

1-phase, 5 V DC**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 5 V in two performance classes.

Product highlights

- 1-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 brand name	LOGO!Power	LOGO!Power
type of current supply	5 V/3 A	5 V/6.3 A
input		
type of the power supply network	1-phase AC or DC	1-phase AC or DC
supply voltage at AC		
• minimum rated value	100 V	100 V
• maximum rated value	240 V	240 V
• initial value	85 V	85 V
• full-scale value	264 V	264 V
input voltage at DC	110 ... 300 V	110 ... 300 V
wide range input	Yes	Yes
overvoltage overload capability	300 V AC for 1 s	300 V AC for 1 s
buffering time for rated value of the output current in the event of power failure minimum	40 ms	40 ms
operating condition of the mains buffering	at $V_{in} = 187$ V	at $V_{in} = 187$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz
input current		
• at rated input voltage 120 V	0.36 A	0.71 A
• at rated input voltage 230 V	0.22 A	0.37 A
current limitation of inrush current at 25 °C maximum	26 A	50 A
I ² t value maximum	0.8 A ² ·s	3 A ² ·s
fuse protection type	internal	internal
fuse protection type in the feeder	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 module

LOGO!Power

1-phase, 5 V DC

Technical specifications

Article number	6EP3310-6SB00-0AY0	6EP3311-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	5 V/3 A	5 V/6.3 A
output		
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	5 V	5 V
output voltage		
• at output 1 at DC rated value	5 V	5 V
	5 V	5 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	4.6 ... 5.4 V	4.6 ... 5.4 V
relative overall tolerance of the voltage	3 %	3 %
relative control precision of the output voltage		
• on slow fluctuation of input voltage	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %
residual ripple		
• maximum	100 mV	100 mV
• typical	30 mV	30 mV
voltage peak		
• maximum	100 mV	100 mV
• typical	50 mV	50 mV
display version for normal operation	Green LED for output voltage OK	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
response delay maximum	0.5 s	0.5 s
voltage increase time of the output voltage		
• typical	100 ms	100 ms
output current		
• rated value	3 A	6.3 A
• rated range	0 ... 3 A; +55 ... +70 °C: Derating 2%/K	0 ... 6.3 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	15 W	31.5 W
bridging of equipment	Yes	Yes
number of parallel-switched equipment resources	2	2
efficiency		
efficiency in percent	76 %	79.8 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	4.7 W	8 W
• during no-load operation maximum	0.3 W	0.3 W
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	5 %	7 %
setting time		
• load step 10 to 90% typical	1 ms	1 ms
• load step 90 to 10% typical	1 ms	1 ms

LOGO! logic module

LOGO!Power

1-phase, 5 V DC

Technical specifications

Article number	6EP3310-6SB00-0AY0	6EP3311-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	5 V/3 A	5 V/6.3 A
protection and monitoring		
design of the overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Constant current characteristic	Constant current characteristic
• typical overcurrent overload capability	3.8 A	8.2 A
• when switching on	150% I_{out} rated typ. 200 ms	150% I_{out} rated typ. 200 ms
• in normal operation	overload capability 150% I_{out} rated typ. 200 ms	overload capability 150% I_{out} rated typ. 200 ms
enduring short circuit current RMS value		
• maximum	3.8 A	8.2 A
measuring point for output current	Yes; 50 mV = ^ 3 A	Yes; 50 mV = ^ 6.3 A
safety		
galvanic isolation between input and output	Yes	Yes
galvanic isolation	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
operating resource protection class	Class II (without protective conductor)	Class II (without protective conductor)
protection class IP	IP20	IP20
EMC		
standard		
• for emitted interference	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	not applicable	not applicable
• for interference immunity	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; 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)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273
• CSA approval	Yes; 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)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273
• EAC approval	Yes	Yes
• NEC Class 2	Yes; according to UL1310, File E151273	No
• SEMI F47	Yes	Yes
type of certification		
• CB-certificate	Yes	Yes
MTBF at 40 °C	2 931 709 h	2 654 280 h
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	No
• ATEX	No	No
• ULhazloc approval	No	No
• cCSAus, Class 1, Division 2	No	No
• FM registration	No	No
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	Yes
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes
• French marine classification society (BV)	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes

LOGO! logic module

LOGO!Power

1-phase, 5 V DC

Technical specifications

Article number	6EP3310-6SB00-0AY0	6EP3311-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	5 V/3 A	5 V/6.3 A
standards, specifications, approvals		
Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO ₂ eq]		
• total	131 kg	222.9 kg
• during manufacturing	2.3 kg	3.8 kg
• during operation	128.6 kg	218.9 kg
• after end of life	0.08 kg	0.14 kg
ambient conditions		
ambient temperature		
• during operation	-25 ... +70; with natural convection	-25 ... +70; with natural convection
• during transport	-40 ... +85	-40 ... +85
• during storage	-40 ... +85	-40 ... +85
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method		
type of electrical connection	screw terminal	screw terminal
• at 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
• at output	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²
• for auxiliary contacts	-	-
mechanical data		
width × height × depth of the enclosure	36 mm × 90 mm × 53 mm	54 mm × 90 mm × 53 mm
installation width × mounting height	36 mm × 130 mm	54 mm × 130 mm
required spacing		
• top	20 mm	20 mm
• bottom	20 mm	20 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	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
• DIN-rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	Yes	Yes
housing can be lined up	Yes	Yes
net weight	0.12 kg	0.2 kg
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information		
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)
	5 V	5 V
	5 V	5 V
	-25 °C	-25 °C
	70 °C	70 °C

LOGO! logic module

LOGO!Power

1-phase, 12 V DC**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

- 1-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**Accessories****SITOP RED1200 redundancy modules**

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

Technical specifications

Article number	6EP3320-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3322-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power
type of current supply	12 V/0.9 A	12 V/1.9 A	12 V/4.5 A
input			
type of the power supply network	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC
supply voltage at AC			
• minimum rated value	100 V	100 V	100 V
• maximum rated value	240 V	240 V	240 V
• initial value	85 V	85 V	85 V
• full-scale value	264 V	264 V	264 V
input voltage at DC	110 ... 300 V	110 ... 300 V	110 ... 300 V
wide range input	Yes	Yes	Yes
overvoltage overload capability	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s
buffering time for rated value of the output current in the event of power failure minimum	40 ms	40 ms	40 ms
operating condition of the mains buffering	at $V_{in} = 187 V$	at $V_{in} = 187 V$	at $V_{in} = 187 V$
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	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
current limitation of inrush current at 25 °C maximum	20 A	25 A	50 A
I ² t value maximum	0.8 A ² ·s	0.8 A ² ·s	3 A ² ·s
fuse protection type	internal	internal	internal
fuse protection type in the feeder	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 module

LOGO!Power

1-phase, 12 V DC

Technical specifications

Article number	6EP3320-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3322-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power
type of current supply	12 V/0.9 A	12 V/1.9 A	12 V/4.5 A
output			
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	12 V	12 V	12 V
output voltage			
• at output 1 at DC rated value	12 V	12 V	12 V
	12 V	12 V	12 V
output voltage adjustable	No	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage		10.5 ... 16.1 V	10.5 ... 16.1 V
relative overall tolerance of the voltage	3 %	3 %	3 %
relative control precision of the output voltage			
• on slow fluctuation of input voltage	0.1 %	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %	0.1 %
residual ripple			
• maximum	200 mV	200 mV	200 mV
• typical	30 mV	30 mV	30 mV
voltage peak			
• maximum	300 mV	300 mV	300 mV
• typical	50 mV	50 mV	50 mV
display version for normal operation	Green LED for output voltage OK	Green LED for output voltage OK	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
response delay maximum	0.5 s	0.5 s	0.5 s
voltage increase time of the output voltage			
• typical	100 ms	100 ms	100 ms
output current			
• rated value	0.9 A	1.9 A	4.5 A
• rated range	0 ... 0.9 A; +55 ... +70 °C: Derating 2%/K 0.0 ... 2.4 A	0 ... 1.9 A; +55 ... +70 °C: Derating 2%/K 0.0 ... 2.4 A	0 ... 4.5 A; +55 ... +70 °C: Derating 2%/K 2.6 ... 4.9 A
supplied active power typical	10.8 W	22.8 W	54 W
bridging of equipment	No	Yes	Yes
number of parallel-switched equipment resources		2	2
efficiency			
efficiency in percent	78 %	81 %	87.1 %
power loss [W]			
• at rated output voltage for rated value of the output current typical	3 W	5.3 W	8 W
• during no-load operation maximum	0.3 W	0.3 W	0.3 W
closed-loop control			
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %	2 %	4 %
setting time			
• load step 10 to 90% typical	1 ms	1 ms	1 ms
• load step 90 to 10% typical	1 ms	1 ms	1 ms

LOGO! logic module

LOGO!Power

1-phase, 12 V DC

Technical specifications

Article number	6EP3320-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3322-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power
type of current supply	12 V/0.9 A	12 V/1.9 A	12 V/4.5 A
protection and monitoring			
design of the overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1	Yes, according to EN 60950-1
property of the output short-circuit proof	Yes	Yes	Yes
design of short-circuit protection	Constant current characteristic	Constant current characteristic	Constant current characteristic
• typical	1.3 A	2.5 A	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
• 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
enduring short circuit current RMS value			
• maximum	1.3 A	2.5 A	5 A
measuring point for output current	No	Yes; 50 mV = ^ 1.9 A	Yes; 50 mV = ^ 4.5 A
safety			
galvanic isolation between input and output	Yes	Yes	Yes
galvanic isolation	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
operating resource protection class	Class II (without protective conductor)	Class II (without protective conductor)	Class II (without protective conductor)
protection class IP	IP20	IP20	IP20
EMC			
standard			
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	not applicable	not applicable	not applicable
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes	Yes	Yes
• UL approval	Yes; 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)	Yes; 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)	Yes; 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)
• CSA approval	Yes; 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)	Yes; 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)	Yes; 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)
• EAC approval	Yes	Yes	Yes
• NEC Class 2	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273
• SEMI F47	Yes	Yes	Yes
type of certification			
• CB-certificate	Yes	Yes	Yes
MTBF at 40 °C	3 793 080 h	2 938 542 h	2 566 680 h
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEX	No	No	No
• ATEX	No	No	No
• ULhazloc approval	No	No	No
• cCSAus, Class 1, Division 2	No	No	No
• FM registration	No	No	No
standards, specifications, approvals marine classification			
shipbuilding approval	Yes	Yes	Yes
Marine classification association			
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes
• French marine classification society (BV)	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes

LOGO! logic module

LOGO!Power

1-phase, 12 V DC

Technical specifications

Article number	6EP3320-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3322-6SB00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power
type of current supply	12 V/0.9 A	12 V/1.9 A	12 V/4.5 A
standards, specifications, approvals			
Environmental Product Declaration			
Environmental Product Declaration global warming potential [CO ₂ eq]	Yes	Yes	Yes
• total	83.3 kg	147.3 kg	222.9 kg
• during manufacturing	1.3 kg	2.3 kg	3.8 kg
• during operation	81.9 kg	145 kg	218.9 kg
• after end of life	0.05 kg	0.08 kg	0.14 kg
ambient conditions			
ambient temperature			
• during operation	-25 ... +70; with natural convection	-25 ... +70; with natural convection	-25 ... +70; with natural convection
• during transport	-40 ... +85	-40 ... +85	-40 ... +85
• during storage	-40 ... +85	-40 ... +85	-40 ... +85
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
connection method			
type of electrical connection	screw terminal	screw terminal	screw terminal
• at 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
• at 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
• for auxiliary contacts	-	-	-
mechanical data			
width × height × depth of the enclosure	18 mm × 90 mm × 53 mm	36 mm × 90 mm × 53 mm	54 mm × 90 mm × 53 mm
installation width × mounting height	18 mm × 130 mm	36 mm × 130 mm	54 mm × 130 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
fastening method	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
• DIN-rail mounting	Yes	Yes	Yes
• S7 rail mounting	No	No	No
• wall mounting	Yes	Yes	Yes
housing can be lined up	Yes	Yes	Yes
net weight	0.07 kg	0.12 kg	0.2 kg
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information			
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)
	12 V	12 V	12 V
	12 V	12 V	12 V
	-25 °C	-25 °C	-25 °C
	70 °C	70 °C	70 °C

LOGO! logic module

LOGO!Power

1-phase, 15 V DC**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 a wide-range input are available with an output voltage of 15 V in two performance classes.

Product highlights

- 1-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**Article No.****Accessories****SITOP RED1200 redundancy modules**

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

Technical specifications

Article number	6EP3321-6SB10-0AY0	6EP3322-6SB10-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	15 V/1.9 A	15 V/4 A
input		
type of the power supply network	1-phase AC or DC	1-phase AC or DC
supply voltage at AC		
• minimum rated value	100 V	100 V
• maximum rated value	240 V	240 V
• initial value	85 V	85 V
• full-scale value	264 V	264 V
input voltage at DC	110 ... 300 V	110 ... 300 V
wide range input	Yes	Yes
overvoltage overload capability	300 V AC for 1 s	300 V AC for 1 s
buffering time for rated value of the output current in the event of power failure minimum	40 ms	40 ms
operating condition of the mains buffering	at $V_{in} = 187$ V	at $V_{in} = 187$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz
input current		
• at rated input voltage 120 V	0.63 A	1.24 A
• at rated input voltage 230 V	0.33 A	0.68 A
current limitation of inrush current at 25 °C maximum	25 A	55 A
I ² t value maximum	0.8 A ² ·s	3 A ² ·s
fuse protection type	internal	internal
fuse protection type in the feeder	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 module

LOGO!Power

1-phase, 15 V DC

Technical specifications

Article number	6EP3321-6SB10-0AY0	6EP3322-6SB10-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	15 V/1.9 A	15 V/4 A
output		
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	15 V	15 V
output voltage		
• at output 1 at DC rated value	15 V	15 V
	15 V	15 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	10.5 ... 16.1 V	10.5 ... 16.1 V
relative overall tolerance of the voltage	3 %	3 %
relative control precision of the output voltage		
• on slow fluctuation of input voltage	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %
residual ripple		
• maximum	200 mV	200 mV
• typical	30 mV	30 mV
voltage peak		
• maximum	300 mV	300 mV
• typical	50 mV	50 mV
display version for normal operation	Green LED for output voltage OK	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
response delay maximum	0.5 s	0.5 s
voltage increase time of the output voltage		
• typical	100 ms	100 ms
output current		
• rated value	1.9 A	4 A
• rated range	0 ... 1.9 A; +55 ... +70 °C: Derating 2%/K 0.0 ... 2.4 A	0 ... 4 A; +55 ... +70 °C: Derating 2%/K 2.6 ... 4.9 A
supplied active power typical	28.5 W	60 W
bridging of equipment	Yes	Yes
number of parallel-switched equipment resources	2	2
efficiency		
efficiency in percent	83.4 %	88.4 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	5.7 W	7.9 W
• during no-load operation maximum	0.3 W	0.3 W
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	3 %
setting time		
• load step 10 to 90% typical	1 ms	1 ms
• load step 90 to 10% typical	1 ms	1 ms
protection and monitoring		
design of the overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Constant current characteristic	Constant current characteristic
• typical	2.5 A	5 A
overcurrent overload capability		
• when switching on	150% I_{out} rated typ. 200 ms	150% I_{out} rated typ. 200 ms
• in normal operation	overload capability 150% I_{out} rated typ. 200 ms	overload capability 150% I_{out} rated typ. 200 ms
enduring short circuit current RMS value		
• maximum	2.5 A	5 A
measuring point for output current	Yes; 50 mV = ^ 1.9 A	Yes; 45 mV = ^ 4 A

LOGO! logic module

LOGO!Power

1-phase, 15 V DC

Technical specifications

Article number	6EP3321-6SB10-0AY0	6EP3322-6SB10-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	15 V/1.9 A	15 V/4 A
safety		
galvanic isolation between input and output	Yes	Yes
galvanic isolation	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
operating resource protection class	Class II (without protective conductor)	Class II (without protective conductor)
protection class IP	IP20	IP20
EMC		
standard		
• for emitted interference	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	not applicable	not applicable
• for interference immunity	EN 61000-6-2	EN 61000-6-2
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; 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)	Yes; 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)
• CSA approval	Yes; 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)	Yes; 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)
• EAC approval	Yes	Yes
• NEC Class 2	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273
• SEMI F47	Yes	Yes
type of certification		
• CB-certificate	Yes	Yes
MTBF at 40 °C	2 938 542 h	2 566 680 h
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEX	No	No
• ATEX	No	No
• ULhazloc approval	No	No
• cCSAus, Class 1, Division 2	No	No
• FM registration	No	No
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	Yes
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes
• French marine classification society (BV)	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration	Yes	Yes
global warming potential [CO ₂ eq]		
• total	158.2 kg	220 kg
• during manufacturing	2.3 kg	3.8 kg
• during operation	155.8 kg	216 kg
• after end of life	0.08 kg	0.14 kg
ambient conditions		
ambient temperature		
• during operation	-25 ... +70; with natural convection	-25 ... +70; with natural convection
• during transport	-40 ... +85	-40 ... +85
• during storage	-40 ... +85	-40 ... +85
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation

LOGO! logic module

LOGO!Power

1-phase, 15 V DC

Technical specifications

	6EP3321-6SB10-0AY0	6EP3322-6SB10-0AY0
Article number	6EP3321-6SB10-0AY0	6EP3322-6SB10-0AY0
product brand name	LOGO!Power	LOGO!Power
type of current supply	15 V/1.9 A	15 V/4 A
connection method		
type of electrical connection	screw terminal	screw terminal
• at 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
• at output	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²
• for auxiliary contacts	-	-
mechanical data		
width × height × depth of the enclosure	36 mm × 90 mm × 53 mm	54 mm × 90 mm × 53 mm
installation width × mounting height	36 mm × 130 mm	54 mm × 130 mm
required spacing		
• top	20 mm	20 mm
• bottom	20 mm	20 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	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
• DIN-rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	Yes	Yes
housing can be lined up	Yes	Yes
net weight	0.12 kg	0.2 kg
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop	https://siemens.com/sitop
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com	https://support.industry.siemens.com
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) 15 V 15 V -25 °C 70 °C	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) 15 V 15 V -25 °C 70 °C

LOGO! logic module

LOGO!Power

1-phase, 24 V DC**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 variants are ideal for supplying LOGO! PLCs with the corresponding voltage input.

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

Product highlights

- 1-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
- LOGO!Power Ex 24 V/4.0 A, for use in Zone 2 hazardous environments (gases, vapors or mists)

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**LOGO!Power Ex 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

6EP3333-6SC00-0AY0**Accessories****SITOP redundancy modules**

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

SITOP selectivity modules

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

SITOP BUF1200 buffer module

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

SITOP DC UPS

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

LOGO! logic module

LOGO!Power

1-phase, 24 V DC

Technical specifications

Article number	6EP3330-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0	6EP3333-6SC00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power EX
type of current supply	24 V/0.6 A	24 V/1.3 A	24 V/2.5 A	24 V/4 A	24 V/4 A
input					
type of the power supply network	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC
supply voltage at AC					
• minimum rated value	100 V	100 V	100 V	100 V	100 V
• maximum rated value	240 V	240 V	240 V	240 V	240 V
• initial value	85 V	85 V	85 V	85 V	85 V
• full-scale value	264 V	264 V	264 V	264 V	264 V
input voltage at DC	110 ... 300 V	110 ... 300 V	110 ... 300 V	110 ... 300 V	110 ... 300 V
wide range input	Yes	Yes	Yes	Yes	Yes
overvoltage overload capability	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s	300 V AC for 1 s
buffering time for rated value of the output current in the event of power failure minimum	40 ms	40 ms	40 ms	40 ms	40 ms
operating condition of the mains buffering	at $V_{in} = 187$ V	at $V_{in} = 187$ V	at $V_{in} = 187$ V	at $V_{in} = 187$ V	at $V_{in} = 187$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz
input current					
• at rated input voltage 120 V	0.3 A	0.7 A	1.22 A	1.95 A	1.95 A
• at rated input voltage 230 V	0.2 A	0.35 A	0.66 A	0.97 A	0.97 A
current limitation of inrush current at 25 °C maximum	20 A	25 A	52 A	31 A	31 A
I ² t value maximum	0.8 A ² ·s	0.8 A ² ·s	3 A ² ·s	2.5 A ² ·s	2.5 A ² ·s
fuse protection type	internal	internal	internal	internal	internal
fuse protection type in the feeder	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	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C
output					
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	24 V	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	24 V 24 V	24 V 24 V	24 V 24 V
output voltage adjustable	No	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage		22.2 ... 26.4 V	22.2 ... 26.4 V	22.2 ... 26.4 V	22.2 ... 26.4 V
relative overall tolerance of the voltage	3 %	3 %	3 %	3 %	3 %
relative control precision of the output voltage					
• on slow fluctuation of input voltage	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %
residual ripple					
• maximum	200 mV	200 mV	200 mV	200 mV	200 mV
• typical	30 mV	30 mV	30 mV	30 mV	30 mV
voltage peak					
• maximum	300 mV	300 mV	300 mV	300 mV	300 mV
• typical	50 mV	50 mV	50 mV	50 mV	50 mV
display version for normal operation	Green LED for output voltage OK	Green LED for output voltage OK	Green LED for output voltage OK	Green LED for output voltage OK	Green LED for output voltage OK

LOGO! logic module

LOGO!Power

1-phase, 24 V DC

Technical specifications

Article number	6EP3330-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0	6EP3333-6SC00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power EX
type of current supply	24 V/0.6 A	24 V/1.3 A	24 V/2.5 A	24 V/4 A	24 V/4 A
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)				
response delay maximum	0.5 s				
voltage increase time of the output voltage					
• typical	100 ms				
output current					
• rated value	0.6 A	1.3 A	2.5 A	4 A	4 A
• rated range	0 ... 0.6 A; +55 ... +70 °C: Derating 2%/K	0 ... 1.3 A; +55 ... +70 °C: Derating 2%/K	0 ... 2.5 A; +55 ... +70 °C: Derating 2%/K	0 ... 4 A; +55 ... +70 °C: Derating 2%/K	0 ... 4 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	14.4 W	31.2 W	60 W	96 W	96 W
bridging of equipment	No	Yes	Yes	Yes	
number of parallel-switched equipment resources		2	2	2	
efficiency					
efficiency in percent	81 %	86 %	89.6 %	89.1 %	89.1 %
power loss [W]					
• at rated output voltage for rated value of the output current typical	3.4 W	5.1 W	7 W	11.7 W	11.7 W
• during no-load operation maximum	0.3 W				
closed-loop control					
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	1 %	2 %	2 %	2 %
setting time					
• load step 10 to 90% typical	1 ms				
• load step 90 to 10% typical	1 ms				
protection and monitoring					
design of the overvoltage protection	Yes, according to EN 60950-1				
property of the output short-circuit proof	Yes	Yes	Yes	Yes	Yes
design of short-circuit protection	Constant current characteristic				
• typical	0.8 A	1.7 A	3.2 A	5 A	5 A
overcurrent overload capability					
• when switching on	150% I_{out} rated typ. 200 ms				
• in normal operation	overload capability 150% I_{out} rated typ. 200 ms				
enduring short circuit current RMS value					
• maximum	0.8 A	1.7 A	3.2 A	5 A	5 A
measuring point for output current	No	Yes; 50 mV = ^ 1.3 A	Yes; 50 mV = ^ 2.5 A	Yes; 50 mV = ^ 4 A	Yes; 50 mV = ^ 4 A
safety					
galvanic isolation between input and output	Yes	Yes	Yes	Yes	Yes
galvanic isolation	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	Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178
operating resource protection class	Class II (without protective conductor)				
protection class IP	IP20	IP20	IP20	IP20	IP20
EMC					
standard					
• for emitted interference	EN 55022 Class B				
• for mains harmonics limitation	not applicable	not applicable	not applicable	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2				

LOGO! logic module

LOGO!Power

1-phase, 24 V DC

Technical specifications

Article number	6EP3330-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0	6EP3333-6SC00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power EX
type of current supply	24 V/0.6 A	24 V/1.3 A	24 V/2.5 A	24 V/4 A	24 V/4 A
standards, specifications, approvals					
certificate of suitability					
• CE marking	Yes	Yes	Yes	Yes	Yes
• UL approval	Yes; 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)	Yes; 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)	Yes; 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)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File E151273
• CSA approval	Yes; 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)	Yes; 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)	Yes; 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)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File E151273
• UKCA marking					Yes
• EAC approval	Yes	Yes	Yes	Yes	
• NEC Class 2	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273	Yes; according to UL1310, File E151273	No	No
• SEMI F47	Yes	Yes	Yes	Yes	
type of certification					
• BIS		Yes; R-41188271	Yes; R-41188271	Yes; R-41188271	
• CB-certificate	Yes	Yes	Yes	Yes	Yes
MTBF at 40 °C	4 415 040 h	3 094 996 h	2 864 520 h	2 391 480 h	2 391 480 h
standards, specifications, approvals hazardous environments					
certificate of suitability					
• IECEx	No	No	No	No	Yes; IECEx Ex ec IIC T3 Gc
• ATEX	No	No	No	No	Yes; ATEX (EX) II 3G Ex ec IIC T3 Gc
• ULhazloc approval	No	No	No	No	Yes
• cCSAus, Class 1, Division 2	No	No	No	No	Yes
• UKEX					Yes
• CCC for hazardous zone according to GB standard					Yes
• FM registration	No	No	No	No	Yes; Class I, Div. 2, Group ABCD, T4
standards, specifications, approvals marine classification					
shipbuilding approval	Yes	Yes	Yes	Yes	No
Marine classification association					
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes	No
• French marine classification society (BV)	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	No; in preparation
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	No
standards, specifications, approvals Environmental Product Declaration					
Environmental Product Declaration global warming potential [CO2 eq]	Yes	Yes	Yes	Yes	Yes
• total	94.5 kg	141.9 kg	195.3 kg	326 kg	326 kg
• during manufacturing	1.3 kg	2.3 kg	3.8 kg	5.5 kg	5.5 kg
• during operation	93.1 kg	139.5 kg	191.4 kg	320 kg	320 kg
• after end of life	0.05 kg	0.08 kg	0.14 kg	0.2 kg	0.2 kg

LOGO! logic module

LOGO!Power

1-phase, 24 V DC

Technical specifications

Article number	6EP3330-6SB00-0AY0	6EP3331-6SB00-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0	6EP3333-6SC00-0AY0
product brand name	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power	LOGO!Power EX
type of current supply	24 V/0.6 A	24 V/1.3 A	24 V/2.5 A	24 V/4 A	24 V/4 A
ambient conditions					
ambient temperature					
• during operation	-25 ... +70; with natural convection				
• during transport	-40 ... +85	-40 ... +85	-40 ... +85	-40 ... +85	-40 ... +85
• during storage	-40 ... +85	-40 ... +85	-40 ... +85	-40 ... +85	-40 ... +85
environmental category according to IEC 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	Climate class 3K3, 5 ... 95% no condensation
connection method					
type of electrical connection	screw terminal				
• at 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	L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded
• at 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	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²
• for auxiliary contacts	-	-	-	-	-
mechanical data					
width × height × depth of the enclosure	18 mm × 90 mm × 53 mm	36 mm × 90 mm × 53 mm	54 mm × 90 mm × 53 mm	72 mm × 90 mm × 53 mm	72 mm × 90 mm × 53 mm
installation width × mounting height	18 mm × 130 mm	36 mm × 130 mm	54 mm × 130 mm	72 mm × 130 mm	72 mm × 130 mm
required spacing					
• top	20 mm				
• bottom	20 mm				
• left	0 mm				
• right	0 mm				
fastening method	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	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
• DIN-rail mounting	Yes	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No	No
• wall mounting	Yes	Yes	Yes	Yes	Yes
housing can be lined up	Yes	Yes	Yes	Yes	Yes
net weight	0.07 kg	0.12 kg	0.2 kg	0.29 kg	0.29 kg
further information internet links					
internet link					
• to website: Industry Mall	https://mall.industry.siemens.com				
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud				
• to web page: power supplies	https://siemens.com/sitop				
• to website: CAx-Download-Manager	https://siemens.com/cax				
• to website: Industry Online Support	https://support.industry.siemens.com				
additional information					
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)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
	24 V				
	24 V				
	-25 °C				
	70 °C				

LOGO! logic module

SIPLUS LOGO!Power

SIPLUS LOGO!Power

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! PLCs 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 / 1.3 A, 2.5 A and 4.0 A
- Narrow unit with width of 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

6AG1331-6SB00-7AY0

Extended temperature range and exposure to environmental substances

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

SIPLUS LOGO!Power 24 V 2.5 A

6AG1332-6SB00-7AY0

Extended temperature range and exposure to environmental substances

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

SIPLUS LOGO!Power 24 V 4 A

6AG1333-6SB00-7AY0

Extended temperature range and exposure to environmental substances

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

LOGO! logic module

SIPLUS LOGO!Power

SIPLUS LOGO!Power

Technical specifications

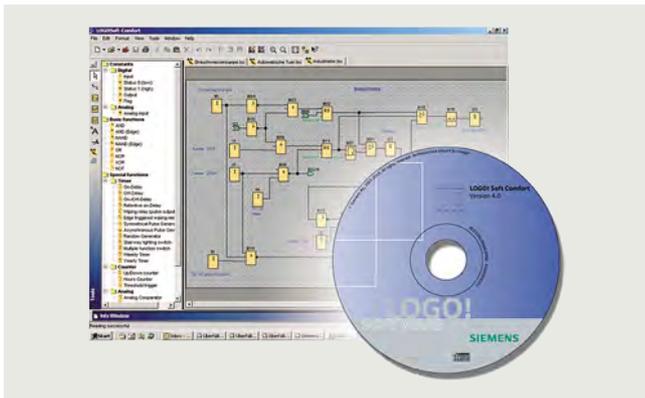
Article number	6AG1331-6SB00-7AY0	6AG1332-6SB00-7AY0	6AG1333-6SB00-7AY0
Based on	6EP3331-6SB00-0AY0	6EP3332-6SB00-0AY0	6EP3333-6SB00-0AY0
product brand name	SIPLUS LOGO!Power	SIPLUS LOGO!Power	SIPLUS LOGO!Power
type of current supply	24 V/1.3 A	24 V/2.5 A	24 V/4 A
ambient conditions			
ambient temperature			
<ul style="list-style-type: none"> in horizontal mounting position during operation during transport during storage 	-40; Startup @ -25 °C ... +70 °C; with natural convection	-40; Startup @ -25 °C ... +70 °C; with natural convection	-40; Startup @ -25 °C ... +70 °C; with natural convection
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 according 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 according 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 according 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 according 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 according 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 according 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 according 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 according 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 according 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 according to IPC-CC-830A	Yes; Conformal Coating, Class A	Yes; Conformal Coating, Class A	Yes; Conformal Coating, Class A

LOGO! logic module

LOGO! software

LOGO! software

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

Single license for 1 installation
E-SW, LWE, Integrity Test Tool,
SW and documentation on DVD,
6 languages, executable under
Windows XP, 7, 8, 10 (32 and 64-bit)
and Windows 11,
Mac OSx 10.14 Mojave,
Mac OS 10.15 Big Sur,
Mac OS12.1 Monterey,
Linux SUSE 15 (64-bit)

Article No.

6ED1058-0BA08-0YA1

LOGO! logic module

LOGO! accessories

LOGO! TDE

Overview



- Low-cost and central operating interface for applications
- Can be used for parameter adjustments and troubleshooting
- Permits the display of all messages via the integrated web server and thus also the control of applications via a smartphone
- Two Ethernet interfaces to connect to a basic module, PC, or other LOGO! TDE

Ordering data

Article No.

LOGO! TD text display

6 lines, 3 background colors, 2 Ethernet ports, mounting accessories for LOGO! 8

6ED1055-4MH08-0BA1

Technical specifications

Article number	6ED1055-4MH08-0BA1 LOGO! TD TD text display, 6 lines
General information	
Product type designation	Text display
Suitability for use	Can be used with LOGO! 8 and higher
Display	
Design of display	FSTN
Line display	
• Number of lines	6
• Number of characters per line	20
Backlighting	
• Type of backlighting	LED
Control elements	
Keyboard fonts	
• System keys	Yes
- Number of configurable system keys	0
• alphanumeric keyboard	No

Article number	6ED1055-4MH08-0BA1 LOGO! TD TD text display, 6 lines
Installation type/mounting	
Wall mounting/direct mounting	No
Supply voltage	
Type of supply voltage	AC/DC
Rated value (DC)	12 V; 12/24 V DC, 24 V AC
Power loss	
Power loss, typ.	1.8 W; At 24 V DC
Interrupts/diagnostics/status information	
Diagnostics function	No
Degree and class of protection	
IP (at the front)	IP65
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
FM approval	Yes
KC approval	Yes
Marine approval	
• American Bureau of Shipping (ABS)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-20 °C; No condensation
• max.	55 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °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)
configuration / header	
Configuration software	
• Configuration tool	LOGO! Soft Comfort V8
Accessories	
belongs to product	LOGO!
Mechanics/material	
Design of housing	plastic
Dimensions	
Width	128.2 mm
Height	86 mm
Depth	38.7 mm
Overall depth	38.7 mm
Weights	
Weight, approx.	220 g
Scope of supply	
Delivery quantity in pieces	1

LOGO! logic module

LOGO! accessories

LOGO!Contact switching module**Overview**

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

Ordering data**Article No.****LOGO!Contact**

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

LOGO!Contact 24 switching module

For direct switching of resistive loads up to 20 A and motors up to 4 kW, 24 V DC, 3 NO contacts+1 NC contact
EAN: 4025515050742

6ED1057-4CA00-0AA0**LOGO!Contact 230 switching module**

For direct switching of resistive loads up to 20 A and motors up to 4 kW, 230 V AC, 3 NO contacts+1 NC contact
EAN: 4025515050759

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
Supply voltage		
Rated value (DC)		
• 24 V DC	Yes	
Rated value (AC)		
• 230 V AC		Yes
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 module

LOGO! accessories

LOGO! mounting kit**Overview**

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 U, with keys

6AG1057-1AA00-0AA3

Width 8 U, with keys

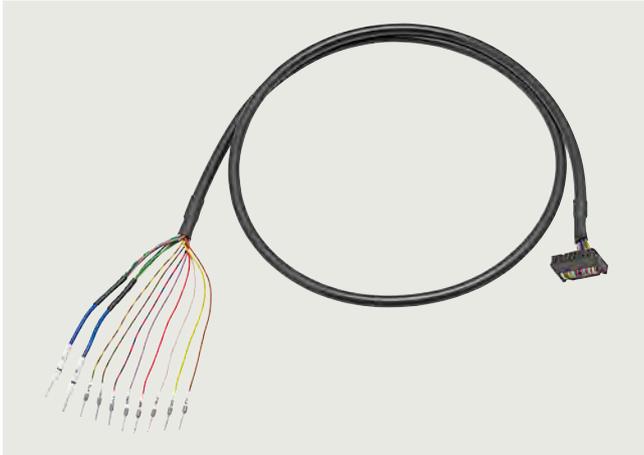
6AG1057-1AA00-0AA2**2**

LOGO! logic module

LOGO! accessories

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

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.

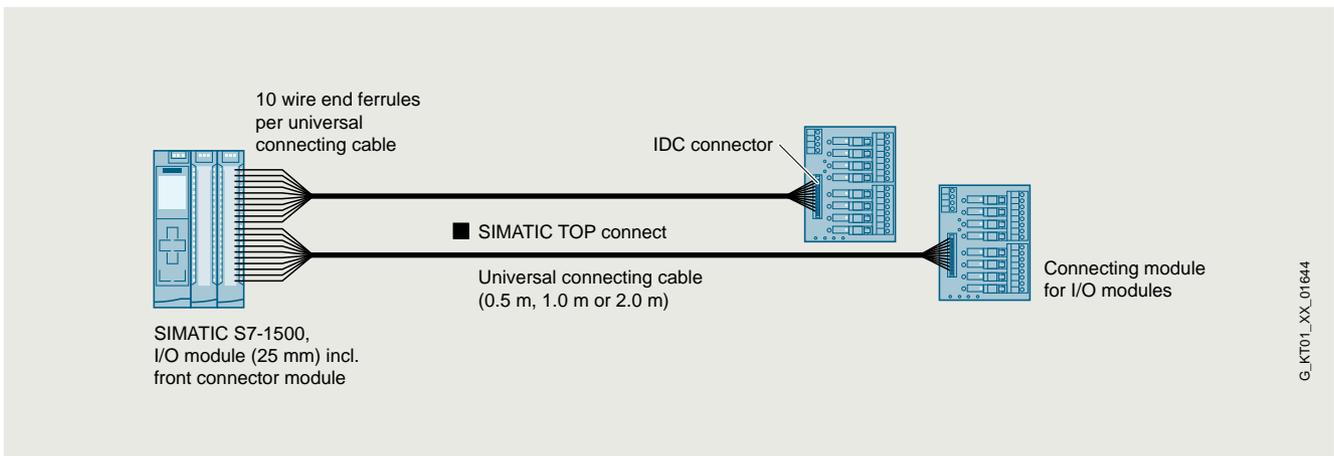
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Design

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

It comprises:

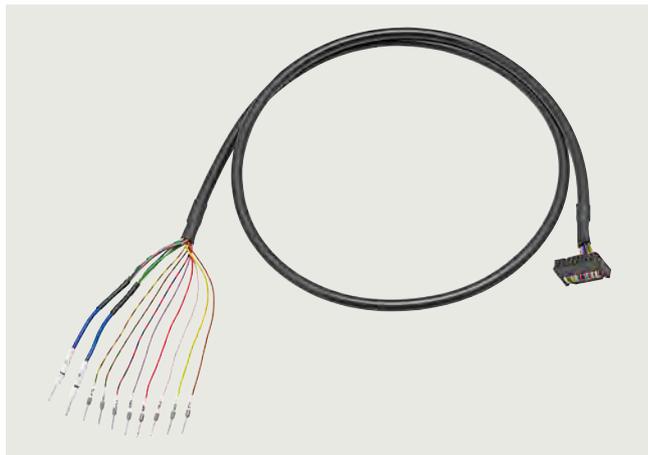
- 16-pin round cable with a core cross-section of 0.14 mm^2 , pre-assembled with wire end ferrules for connection to the controller:
 - Labeled with "0" ... "7" for the control inputs/outputs
 - Labeled with "M" for mass
 - Labeled with "L+" for 24 V DC potential
- 16-pin ID (insulation displacement) connector for connection to the SIMATIC TOP connect connection modules for 8 I/Os:
 - 3-wire connection using the appropriate connection 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 connection cable

LOGO! logic module

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 cables 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 connection modules

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

Ordering data**Article No.****TP1 connection module**

For 1-conductor 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

TP3 connection module

For 3-conductor 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

TPRo connection module

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

TPRi connection module

Relay module for 8 inputs (230 V AC), relay as normally open contact

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

6ES7924-0BE20-0BC0
6ES7924-0BE20-0BA0

TPRi connection module

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

TPOo connection module

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