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LOGO! logic module

Brochures

For brochures serving as selection guides for SIMATIC products refer to:

www.siemens.com/simatic/printmaterial

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LOGO! logic module

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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
- 36 different functions can be connected at the click of a button or by means of PC software; up to 130 times over
- LOGO! 8: 38 / 43 different functions can be linked at the press of a button or using PC software; up to 200/400 times
- Functions are easily changed at the press of a key. No more time-consuming rewiring

SIPLUS LOGO!

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

Accessories:

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

For further information, please go to:

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

General technical specifications SIPLUS LOGO!

Ambient temperature range	-40/-25 ... +70 °C
Conformal coating	Coating of the printed circuit boards and the electronic components
Technical data	The technical data of the standard product applies except for the ambient conditions.
Ambient conditions	
Extended ambient conditions	
• Relative to ambient temperature-atmospheric pressure-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)
Relative humidity	
• With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
• against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
• against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
• against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

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Overview

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

New for LOGO! 8

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

LOGO! 0BA7 versions:

- Ethernet interface for communication with SIMATIC Controller, SIMATIC Panel and PC
- Networking of max. 8 LOGO! devices
- Use of standard CF card or SIMATIC memory card

Technical specifications

Article number	**6ED1052-1CC01-0BA8** LOGO! 24CE, 8DI(4AI)/4DO, 400 BLOCKS	**6ED1052-1MD00-0BA8** LOGO!12/24RCE, 8DI(4AI)/4DO, 400 BLOCKS	**6ED1052-1HB00-0BA8** LOGO! 24RCE, 8DI/4DO, 400 BLOCKS	**6ED1052-1FB00-0BA8** LOGO!230RCE, 8DI/4DO, 400 BLOCKS
Product type designation				
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
permissible range, lower limit (DC)	20.4 V	10.8 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
Time of day				
Time switching clocks				
• Number	190	8	8	8
• 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

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Technical specifications (continued)

Article number	6ED1052-1CC01-0BA8 LOGO! 24CE, 8DI(4AI)/4DO, 400 BLOCKS	6ED1052-1MD00-0BA8 LOGO!12/24RCE, 8DI(4AI)/4DO, 400 BLOCKS	6ED1052-1HB00-0BA8 LOGO! 24RCE, 8DI/4DO, 400 BLOCKS	6ED1052-1FB00-0BA8 LOGO!230RCE, 8DI/4DO, 400 BLOCKS
EMC				
Emission of radio interference acc. to EN 55 011				
• Limit class B, for use in residential areas	Yes; Radio interference suppression according to EN 55011, Limit Value Class B	Yes	Yes	Yes
Degree and class of protection				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
Developed in accordance with IEC 61131	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
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

Article number	6ED1052-1MD00-0BA7 LOGO!12/24RCE, 8DI(4AI)/4DO, 400 BLOCKS	6ED1052-1FB00-0BA7 LOGO! 230RCE, 8DI/4DO, 400 BLOCKS
Product type designation		
Installation type/mounting		
Mounting	on 35 mm DIN rail, 6 spacing units wide	on 35 mm DIN rail, 6 spacing units wide
Supply voltage		
Rated value (DC)		
• 12 V DC	Yes	
• 24 V DC	Yes	
• 115 V DC		Yes
• 230 V DC		Yes
permissible range, lower limit (DC)	10.8 V	100 V
permissible range, upper limit (DC)	28.8 V	253 V
Rated value (AC)		
• 115 V AC		Yes
• 230 V AC		Yes
Time of day		
Time switching clocks		
• Number	333	333
• Power reserve	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
Digital outputs		
Number of digital outputs	4; Relays	4; Relays
short-circuit protection	No; external fusing necessary	No; external fusing necessary
Relay outputs		
Switching capacity of contacts		
- with inductive load, max.	3 A	3 A
- with resistive load, max.	10 A	10 A

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Technical specifications (continued)

Article number	**6ED1052-1MD00-0BA7**	**6ED1052-1FB00-0BA7**
	LOGO!12/24RCE, 8DI(4AI)/4DO, 400 BLOCKS	LOGO! 230RCE, 8DI/4DO, 400 BLOCKS
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
Degree and class of protection		
Degree of protection to EN 60529		
• IP20	Yes	Yes
Standards, approvals, certificates		
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	Yes
Marine approval		
• Marine approval	Yes	Yes
Ambient conditions		
Ambient temperature in operation		
• Min.	0 °C	0 °C
• max.	55 °C	55 °C
Dimensions		
Width	107 mm	107 mm
Height	90 mm	90 mm
Depth	55 mm	55 mm

Article number	**6ED1052-1CC01-0BA6**	**6ED1052-1MD00-0BA6**	**6ED1052-1HB00-0BA6**	**6ED1052-1FB00-0BA6**
	LOGO! 24C, 8DI(4AI)/4DO, 200 BLOCKS	LOGO! 12/24RC, 8DI(4AI)/4DO, 200 BLOCKS	LOGO! 24RC, 8DI/4DO, 200 BLOCKS	LOGO! 230RC, 8DI/4DO, 200 BLOCKS
Product type designation				
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
permissible range, lower limit (DC)	20.4 V	10.8 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
Time of day				
Time switching clocks				
• Number	190	8	8	8
• Power reserve	80 h	80 h	80 h	80 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

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Technical specifications (continued)

Article number	6ED1052-1CC01-0BA6 LOGO! 24C, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-1MD00-0BA6 LOGO! 12/24RC, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-1HB00-0BA6 LOGO! 24RC, 8DI/4DO, 200 BLOCKS	6ED1052-1FB00-0BA6 LOGO! 230RC, 8DI/4DO, 200 BLOCKS
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			
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 EN 55011, Limit Value Class B	Yes	Yes	Yes
Degree and class of protection				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
Developed in accordance with IEC 61131	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Dimensions				
Width	72 mm	72 mm	72 mm	72 mm
Height	90 mm	90 mm	90 mm	90 mm
Depth	55 mm	55 mm	55 mm	55 mm

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Ordering data

	Article No.
LOGO! 8 logic module	
LOGO! 24CE Supply voltage 24 V DC, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integrated time switch Ethernet interface; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-1CC01-0BA8**
LOGO! 12/24RCE Supply voltage 12...24 V DC, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V) 4 relay outputs 10 A, integral time switch Ethernet interface; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-1MD00-0BA8**
LOGO! 24RCE Supply voltage 24 V AC/DC, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch Ethernet interface; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-1HB00-0BA8**
LOGO! 230RCE Supply voltage 115...230 V AC/DC, 8 digital inputs 115...230 V AC/DC, 4 relay outputs 10 A, integral time switch Ethernet interface; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-1FB00-0BA8**
LOGO! 7 logic module	
LOGO! 12/24RCE logic module Supply voltage 12/24 V DC, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V) 4 relay outputs 10 A, integral time switch; 400 function blocks can be interlinked, Ethernet interface, modular expansion capability	**6ED1052-1MD00-0BA7**
LOGO! 230RCE logic module 115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; 400 function blocks can be interlinked, Ethernet interface, modular expansion capability	**6ED1052-1FB00-0BA7**

	Article No.
LOGO! 6 logic module	
LOGO! 24C logic module 24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integrated time switch; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-1CC01-0BA6**
LOGO! 12/24RC logic module 12/24 V DC power supply, 8x 12/24 V DC digital inputs, of which 4 can be used in analog mode (0 to 10 V) 4x 10 A relay outputs, integral time switch; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-1MD00-0BA6**
LOGO! 24RC logic module 24 V AC/DC power supply, 8x 24 V AC/DC digital inputs, 4x 10 A relay outputs, integral time switch; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-1HB00-0BA6**
LOGO! 230RC logic module 115/230 V AC/DC power supply, 8x 115/230 V AC/DC digital inputs, 4x 10 A relay outputs, integral time switch; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-1FB00-0BA6**
Accessories for LOGO! 8	
LOGO! 8 text display HMI 6-line text display, can be connected to all LOGO! 8 Basic and Pure versions, with 2 Ethernet interfaces; including installation accessories. Requires additional 12 V DC or 24 V AC/DC power supply	**6ED1055-4MH00-0BA1**
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**

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LOGO! modular basic variants

Ordering data	Article No.
LOGO! 8 Starter Kits In TANOS Box, with LOGO! 8, LOGO! Soft Comfort V8, WinCC Basic V13, Ethernet cable	
LOGO! 8 12/24 V Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A	**6ED1057-3BA00-0AA8**
LOGO! 8 230V Starter Kit With LOGO! 230RCE	**6ED1057-3BA02-0AA8**
LOGO! 8 TDE Starter Kit With LOGO! 12/24RCEO, LOGO! Power 24 V, 1.3 A, LOGO! TDE	**6ED1057-3BA10-0AA8**
LOGO! 8 KP300 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KP300 Basic mono PN	**6AV2132-0HA00-0AA1**
LOGO! 8 KTP400 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP400 Basic	**6AV2132-0KA00-0AA1**
LOGO! 8 KTP700 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP700 Basic	**6AV2132-3GB00-0AA1**
Accessories for LOGO! 6, LOGO! 7	
LOGO! TD text display 4-line text display, can be connected to all LOGO! 0BA6 Basic and Pure versions, including connecting cable	**6ED1055-4MH00-0BA0**
SIPLUS LOGO! TD text display (extended temperature range -10 ... +60 °C and medial loading) 4-line text display, can be connected to all LOGO! Basic and Pure versions as of -0BA6, including connecting cable	**6AG1055-4MH00-2BA0**

	Article No.
LOGO! Memory Card Program module for copying, with know-how protection	**6ED1056-1DA00-0BA0**
LOGO! battery card Battery module for backing up the integral real-time clock (not LOGO! 24)	**6ED1056-6XA00-0BA0**
LOGO! memory/battery card Combined program and battery module, with know-how protection and backup of the integral real-time clock (not LOGO! 24)	**6ED1056-7DA00-0BA0**
LOGO! PROM Programming device used to simultaneously reproduce program module contents on up to 8 program modules	**6AG1057-1AA01-0BA6**
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**
LOGO! PC cable For program transfer between LOGO! and the PC	**6ED1057-1AA00-0BA0**
LOGO! USB PC cable For transferring the program between LOGO! and PC, including driver on CD-ROM	**6ED1057-1AA01-0BA0**
LOGO! modem cable Adapter cable for analog modem communication	**6ED1057-1CA00-0BA0**
Front panel mounting set	
Width 4 width units	**6AG1057-1AA00-0AA0**
Width 4 width units, with keys	**6AG1057-1AA00-0AA3**
Width 8 width units	**6AG1057-1AA00-0AA1**
Width 8 width units, with keys	**6AG1057-1AA00-0AA2**

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Overview

- The space-saving basic variants
- Interface for the connection of expansion modules, up to 24 digital inputs, 16 digital outputs, 8 analog inputs and 2 analog outputs can be addressed
- With connection option for LOGO! text display TD (can be connected to all LOGO! 0BA6 basic versions)

New in LOGO! 0BA7 variants:

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

Note:

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

Technical specifications

Article number	**6AG1052-1CC01-2BA6**	**6AG1052-1MD00-2BA6**	**6AG1052-1HB00-2BA6**	**6AG1052-1FB00-2BA6**
Based on	**6ED1052-1CC01-0BA6**	**6ED1052-1MD00-0BA6**	**6ED1052-1HB00-0BA6**	**6ED1052-1FB00-0BA6**
	SIPLUS LOGO! 24C	SIPLUS LOGO! 12/24RC	SIPLUS LOGO! 24RC	SIPLUS LOGO! 230RC
Ambient conditions				
Ambient temperature in operation				
• Min.	-25 °C; = Tmin	-25 °C; = Tmin	-25 °C; = Tmin	-25 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions				
• Relative to ambient temperature-atmospheric pressure-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)	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)	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)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity				
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)
Resistance				
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!

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SIPLUS LOGO! modular basic variants

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Technical specifications (continued)

Article number	6AG1052-1MD00-2BA7	6AG1052-1FB00-2BA7
Based on	6ED1052-1MD00-0BA7 SIPLUS LOGO!12/24RCE	6ED1052-1FB00-0BA7 SIPLUS LOGO! 230RCE
Ambient conditions		
Ambient temperature in operation		
• Min.	-25 °C; = Tmin	-25 °C; = Tmin
• max.	70 °C; = Tmax	70 °C; = Tmax
Extended ambient conditions		

• Relative to ambient temperature-atmospheric pressure-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)
		Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)

Relative humidity		
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance		
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Ordering data

	Article No.
SIPLUS LOGO! 24	
24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A; integrated time switch; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1CC01-2BA6**
SIPLUS LOGO! 230RC	
115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1FB00-2BA6**
SIPLUS LOGO! 230RCE	
115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; 400 function blocks can be interlinked, Ethernet interface, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1FB00-2BA7**
SIPLUS LOGO! 24RC	
24 V AC/DC supply voltage, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1HB00-2BA6**

	Article No.
SIPLUS LOGO! 12/24RC	
12/24 V DC power supply, 8x 12/24 V DC digital inputs, of which 4 can be used in analog mode (0 to 10 V) 4x 10 A relay outputs, integral time switch; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1MD00-2BA6**
SIPLUS LOGO! 12/24RCE	
12/24 V DC supply voltage, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V) 4 relay outputs 10 A, integral time switch; 400 function blocks can be interlinked, Ethernet interface, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-1MD00-2BA7**
Accessories	
SIPLUS Upmiter upstream device	**6AG1053-1AA00-2AA0**
for reliable operation at the battery of combustion engines	
Further accessories	See LOGO! modular basic variants, page 2/7

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Overview

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

New LOGO! 8

- All basic units with integrated Web server
- Enclosure width as LOGO! 0BA6 (4 MW)
- All basic units with Ethernet interface for communication with LOGO!, SIMATIC Controllers, SIMATIC Panels and PCs
- Use of standard micro SD cards

Technical specifications

Article number	**6ED1052-2CC01-0BA8** LOGO! 24CEO, 8DI(4AI)/4DO, 400 BLOCKS	**6ED1052-2MD00-0BA8** LOGO!12/24RCEO, 8DI(4AI)/4DO, 400 BLOCKS	**6ED1052-2HB00-0BA8** LOGO! 24RCEO, 8DI/4DO, 400 BLOCKS	**6ED1052-2FB00-0BA8** LOGO!230RCEO, 8DI/4DO, 400 BLOCKS
Product type designation				
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
permissible range, lower limit (DC)	20.4 V	10.8 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
Time of day				
Time switching clocks				
• Number	190	8	8	8
• 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 EN 55011, Limit Value Class B	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6ED1052-2CC01-0BA8 LOGO! 24CEO, 8DI(4AI)/4DO, 400 BLOCKS	6ED1052-2MD00-0BA8 LOGO!12/24RCEO, 8DI(4AI)/4DO, 400 BLOCKS	6ED1052-2HB00-0BA8 LOGO! 24RCEO, 8DI/4DO, 400 BLOCKS	6ED1052-2FB00-0BA8 LOGO!230RCEO, 8DI/4DO, 400 BLOCKS
Degree and class of protection				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
Developed in accordance with IEC 61131	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
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

Article number	6ED1052-2CC01-0BA6 LOGO! 24CO, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-2MD00-0BA6 LOGO! 12/24RCO, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-2HB00-0BA6 LOGO! 24RCO, 8DI/4DO, 200 BLOCKS	6ED1052-2FB00-0BA6 LOGO! 230RCO, 8DI/4DO, 200 BLOCKS
Product type designation				
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
permissible range, lower limit (DC)	20.4 V	10.8 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
Time of day				
Time switching clocks				
• Number	190	8	8	8
• Power reserve	80 h	80 h	80 h	80 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			
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

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Technical specifications (continued)

Article number	6ED1052-2CC01-0BA6 LOGO! 24CO, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-2MD00-0BA6 LOGO! 12/24RCO, 8DI(4AI)/4DO, 200 BLOCKS	6ED1052-2HB00-0BA6 LOGO! 24RCO, 8DI/4DO, 200 BLOCKS	6ED1052-2FB00-0BA6 LOGO! 230RCO, 8DI/4DO, 200 BLOCKS
EMC				
Emission of radio interference acc. to EN 55 011				
• Limit class B, for use in residential areas	Yes; Radio interference suppression according to EN 55011, Limit Value Class B	Yes	Yes	Yes
Degree and class of protection				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
Developed in acc. with IEC 61131	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Dimensions				
Width	72 mm	72 mm	72 mm	72 mm
Height	90 mm	90 mm	90 mm	90 mm
Depth	55 mm	55 mm	55 mm	55 mm

Ordering data

	Article No.
LOGO! 8 logic module	
LOGO! 24CEo logic module 24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integral time switch Ethernet interface; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-2CC01-0BA8**
LOGO! 12/24RCEo logic module 12...24 V DC supply voltage, 8 digital inputs 12...24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 relay outputs 10 A, integral time switch; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-2MD00-0BA8**
LOGO! 24RCEo logic module 24 V AC/DC supply voltage, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-2HB00-0BA8**
LOGO! 230RCEo logic module 115...230 V AC/DC supply voltage, 8 digital inputs 115...230 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 400 function blocks can be interlinked, modular expansion capability	**6ED1052-2FB00-0BA8**

	Article No.
LOGO! 6 logic module	
LOGO! 24Co logic module 24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integrated time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-2CC01-0BA6**
LOGO! 12/24RCo logic module 12/24 V DC supply voltage, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-2MD00-0BA6**
LOGO! 24RCo logic module 24 V AC/DC supply voltage, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-2HB00-0BA6**
LOGO! 230RCo logic module 115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	**6ED1052-2FB00-0BA6**

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LOGO! modular pure variants

Ordering data	Article No.
Accessories for LOGO! 8	
LOGO! TDE text display 6-line text display, can be connected to all LOGO! 8 Basic and Pure versions, with 2 Ethernet interfaces; including installation accessories. Requires additional 12 V DC or 24 V AC/DC power supply	**6ED1055-4MH00-0BA1**
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**
LOGO! 8 Starter Kits In TANOS Box, with LOGO! 8, LOGO! Soft Comfort V8, WinCC Basic V13, Ethernet cable,	
LOGO! 8 12/24 V Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A	**6ED1057-3BA00-0AA8**
LOGO! 8 230V Starter Kit With LOGO! 230RCE	**6ED1057-3BA02-0AA8**
LOGO! 8 TDE Starter Kit With LOGO! 12/24RCEO, LOGO! Power 24 V, 1.3 A, LOGO! TDE	**6ED1057-3BA10-0AA8**
LOGO! 8 KP300 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KP300 Basic mono PN	**6AV2132-0HA00-0AA1**
LOGO! 8 KTP400 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP400 Basic	**6AV2132-0KA00-0AA1**
LOGO! 8 KTP700 Basic Starter Kit With LOGO! 12/24RCE, LOGO! Power 24 V 1.3 A, KTP700 Basic	**6AV2132-3GB00-0AA1**

	Article No.
Accessories for LOGO! 6	
LOGO! TD text display 4-line text display, can be connected to all LOGO! 0BA6 Basic and Pure versions, including connecting cable	**6ED1055-4MH00-0BA0**
SIPLUS LOGO! TD text display (Extended temperature range -10 ... +60 °C and medial loading) 4-line text display, can be connected to all LOGO! 0BA6 Basic and Pure versions, including connecting cable	**6AG1055-4MH00-2BA0**
LOGO! Memory Card Program module for copying, with know-how protection	**6ED1056-1DA00-0BA0**
LOGO battery card Battery module for backing up the integral real-time clock (not LOGO! 24)	**6ED1056-6XA00-0BA0**
LOGO! memory/battery card Combined program and battery module, with know-how protection and buffer for the integral real-time clock (not LOGO! 24o)	**6ED1056-7DA00-0BA0**
LOGO! PROM Programming device used to simultaneously reproduce program module contents on up to 8 program modules	**6AG1057-1AA01-0BA6**
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**
LOGO! PC cable For program transfer between LOGO! and the PC	**6ED1057-1AA00-0BA0**
LOGO! USB PC cable For transferring the program between LOGO! and PC, including driver on CD-ROM	**6ED1057-1AA01-0BA0**
LOGO! modem cable Adapter cable for analog modem communication	**6ED1057-1CA00-0BA0**

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Overview

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

Note:

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

Technical specifications

Article number	**6AG1052-2CC01-2BA6**	**6AG1052-2MD00-2BA6**	**6AG1052-2HB00-2BA6**	**6AG1052-2FB00-2BA6**
Based on	**6ED1052-2CC01-0BA6**	**6ED1052-2MD00-0BA6**	**6ED1052-2HB00-0BA6**	**6ED1052-2FB00-0BA6**
	SIPLUS LOGO! 24CO	SIPLUS LOGO! 12/24RCO	SIPLUS LOGO! 24RCO	SIPLUS LOGO! 230RCO
Ambient conditions				
Ambient temperature in operation				
• Min.	-40 °C; = Tmin	-40 °C; = Tmin	-40 °C; = Tmin	-40 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions				
• Relative to ambient temperature-atmospheric pressure-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)	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)	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)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity				
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commis-sioning under condensation conditions)
Resistance				
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused inter-faces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused inter-faces during operation!

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SIPLUS LOGO! modular pure variants

Ordering data	Article No.
SIPLUS LOGO! 24o	
24 V DC supply voltage, 8 digital inputs 24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 digital outputs 24 V DC, 0.3 A, integrated time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-2CC01-2BA6**
SIPLUS LOGO! 230RCo	
115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-2FB00-2BA6**
SIPLUS LOGO! 24RCo	
24 V AC/DC supply voltage, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-2HB00-2BA6**
SIPLUS LOGO! 12/24RCo	
12/24 V DC supply voltage, 8 digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 to 10 V), 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be interlinked, modular expansion capability	
Extended temperature range and exposure to media	**6AG1052-2MD00-2BA6**

	Article No.
Accessories	
SIPLUS Upmiter upstream device	**6AG1053-1AA00-2AA0**
for reliable operation at the battery of combustion engines	
Further accessories	See LOGO! modular pure variants, page 2/14

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Overview

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

Technical specifications

Article number	**6ED1055-1CB00-0BA2** LOGO! DM8 24 EXP. MOD., 4DI/4DO	**6ED1055-1HB00-0BA2** LOGO! DM8 24R EXP. MOD. 2DU, 4DI/4DO	**6ED1055-1MB00-0BA2** LOGO! DM8 12/24R EXP. MOD. 2DU, 4DI/DO	**6ED1055-1FB00-0BA2** LOGO! DM8 230R EXP. MOD. 2DU, 4DI/4DO
Product type designation				
Installation type/mounting				
Mounting	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide
Supply voltage				
Rated value (DC)				
• 12 V DC			Yes	
• 24 V DC	Yes	Yes	Yes	
• 115 V DC				Yes
• 230 V DC				Yes
permissible range, lower limit (DC)	20.4 V	20.4 V	10.8 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC		Yes		
• 115 V AC				Yes
• 230 V AC				Yes
Line frequency				
• permissible frequency 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"	< 5V DC	< 5 V AC/DC	< 5V DC	< 40 V AC; < 30 V DC
• for signal "1"	> 12V 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.	4 mA	5.5 mA	4.2 mA	0.37 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

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Technical specifications (continued)

Article number	6ED1055-1CB00-0BA2 LOGO! DM8 24 EXP. MOD., 4DI/4DO	6ED1055-1HB00-0BA2 LOGO! DM8 24R EXP. MOD. 2DU, 4DI/4DO	6ED1055-1MB00-0BA2 LOGO! DM8 12/24R EXP. MOD. 2DU, 4DI/DO	6ED1055-1FB00-0BA2 LOGO! DM8 230R EXP. MOD. 2DU, 4DI/4DO
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
Parallel switching of 2 outputs				
• for increased power	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
- Thermal continuous current, max.	0.3 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				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
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				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Dimensions				
Width	35.5 mm	35.5 mm	35.5 mm	35.5 mm
Height	90 mm	90 mm	90 mm	90 mm
Depth	58 mm	58 mm	58 mm	58 mm

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Technical specifications (continued)

Article number	6ED1055-1CB10-0BA2 LOGO! DM16 24 EXP. MOD., 4DU, 8DI/8DO	6ED1055-1NB10-0BA2 LOGO! DM16 24R EXP. MOD. 4DU, 8DI/8DO	6ED1055-1FB10-0BA2 LOGO! DM16 230R EXP. MOD. 4DU, 8DI/8DO
Product type designation			
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)			
• 24 V DC	Yes	Yes	
• 115 V DC			Yes
• 230 V DC			Yes
permissible range, lower limit (DC)	20.4 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	253 V
Rated value (AC)			
• 115 V AC			Yes
• 230 V AC			Yes
Line frequency			
• permissible frequency 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"	< 5V DC	< 5V DC	< 40 V AC; < 30 V DC
• for signal "1"	> 12V DC	> 12V 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.	3.5 mA	3.5 mA	0.37 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
Digital outputs			
Number of digital outputs	8	8; Relays	8
short-circuit protection	Yes	No	No
Controlling a digital input	Yes	Yes	Yes
Switching capacity of the outputs			
• on lamp load, max.		1 000 W	1 000 W
Parallel switching of 2 outputs			
• for increased power	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			
Degree of protection to EN 60529			
• IP20	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6ED1055-1CB10-0BA2 LOGO! DM16 24 EXP. MOD., 4DU, 8DI/8DO	6ED1055-1NB10-0BA2 LOGO! DM16 24R EXP. MOD. 4DU, 8DI/8DO	6ED1055-1FB10-0BA2 LOGO! DM16 230R EXP. MOD. 4DU, 8DI/8DO
Standards, approvals, certificates			
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			
• Marine approval	Yes	Yes	Yes
Ambient conditions			
Ambient temperature in operation			
• Min.	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C
Dimensions			
Width	71.5 mm	71.5 mm	71.5 mm
Height	90 mm	90 mm	90 mm
Depth	58 mm	58 mm	58 mm

Article number	6ED1055-1MA00-0BA2 LOGO! AM2 EXP. MOD., 12/24V, 2AI	6ED1055-1MD00-0BA2 LOGO! AM2 RDT, 2AI, -50..+200DECR/C
Product type designation		
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; 10.8V DC to 28.8V DC	Yes; 10.8V DC to 28.8V DC
• 24 V DC	Yes; 10.8V DC to 28.8V DC	Yes; 10.8V DC to 28.8V 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	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		
Degree of protection to EN 60529		
• IP20	Yes	Yes

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Technical specifications (continued)

Article number	**6ED1055-1MA00-0BA2** LOGO! AM2 EXP. MOD., 12/24V, 2AI	**6ED1055-1MD00-0BA2** LOGO! AM2 RDT, 2AI, -50..+200DECR/C
Standards, approvals, certificates		
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		
• Marine approval	Yes	Yes
Ambient conditions		
Ambient temperature in operation		
• Min.	0 °C	0 °C
• max.	55 °C	55 °C
Dimensions		
Width	35.5 mm	35.5 mm
Height	90 mm	90 mm
Depth	58 mm	58 mm

Article number	**6ED1055-1MM00-0BA2** LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20MA
Product type designation	
Installation type/mounting	
Mounting	on 35 mm DIN rail, 2 spacing units wide
Supply voltage	
Rated value (DC)	
• 12 V DC	No
• 24 V DC	Yes
Analog outputs	
Number of analog outputs	2
Output ranges, voltage	
• 0 to 10 V	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	
Degree of protection to EN 60529	
• IP20	Yes

Article number	**6ED1055-1MM00-0BA2** LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20MA
Standards, approvals, certificates	
CSA approval	Yes
UL approval	Yes
FM approval	Yes
Developed in accordance with IEC 61131	Yes
according to VDE 0631	Yes
Marine approval	
• Marine approval	Yes
Ambient conditions	
Ambient temperature in operation	
• Min.	0 °C
• max.	55 °C
Dimensions	
Width	35.5 mm
Height	90 mm
Depth	58 mm

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Technical specifications (continued)

Article number	6ED1055-1CB00-0BA0 LOGO! DM8 24 EXP. MOD., 4DI/4DO	6ED1055-1HB00-0BA0 LOGO! DM8 24R EXP. MOD. 2DU, 4DI/4DO	6ED1055-1MB00-0BA1 LOGO! DM8 12/24R EXP. MOD. 2DU, 4DI/DO	6ED1055-1FB00-0BA1 LOGO! DM8 230R EXP. MOD. 2DU, 4DI/4DO
Product type designation				
Installation type/mounting				
Mounting	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide
Supply voltage				
Rated value (DC)				
• 12 V DC			Yes	
• 24 V DC	Yes	Yes	Yes	
• 115 V DC				Yes
• 230 V DC				Yes
permissible range, lower limit (DC)	20.4 V	20.4 V	10.8 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
Rated value (AC)				
• 24 V AC		Yes		
• 115 V AC				Yes
• 230 V AC				Yes
Digital inputs				
Number of digital inputs	4	4	4	4
Input voltage				
• Type of input voltage	DC	AC/DC	DC	AC/DC
Digital outputs				
Number of digital outputs	4	4; Relays	4; Relays	4; Relays
short-circuit protection	Yes	No	No	No
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
- Thermal continuous current, max.	0.3 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				
Degree of protection to EN 60529				
• IP20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
Developed in accordance with IEC 61131	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval				
• Marine approval	Yes	Yes	Yes	Yes
Ambient conditions				
Ambient temperature in operation				
• Min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Dimensions				
Width	36 mm; 2 DU	36 mm; 2 DU	36 mm; 2 DU	36 mm; 2 DU
Height	90 mm	90 mm	90 mm	90 mm
Depth	55 mm	55 mm	55 mm	55 mm

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Technical specifications (continued)

Article number	6ED1055-1CB10-0BA0 LOGO! DM16 24, EXP. MOD., 4DU, 8DI/DO	6ED1055-1NB10-0BA0 LOGO! DM16 24R, EXP. MOD., 4DU, 8DI/DO	6ED1055-1FB10-0BA0 LOGO! DM16 230R, EXP. MOD., 4DU, 8DI/DO
Product type designation			
Installation type/mounting			
Mounting	on 35 mm DIN rail, 4 spacing units wide	on 35 mm DIN rail, 4 spacing units wide	on DIN rail 25 mm, 4 module spaces wide
Supply voltage			
Rated value (DC)			
• 24 V DC	Yes	Yes	
• 115 V DC			Yes
• 230 V DC			Yes
permissible range, lower limit (DC)	20.4 V	20.4 V	100 V
permissible range, upper limit (DC)	28.8 V	28.8 V	253 V
Rated value (AC)			
• 115 V AC			Yes
• 230 V AC			Yes
Line frequency			
• permissible frequency 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"	< 5V DC	< 5V DC	< 40 V AC; < 30 V DC
• for signal "1"	> 12V DC	> 12V DC	> 79 V AC, > 79 V DC
Input current			
• for signal "0", max. (permissible quiescent current)	1 mA	1 mA	0.03 mA
• for signal "1", typ.	2 mA	2 mA	0.08 mA
Input delay (for rated value of input voltage)			
for standard inputs			
- at "0" to "1", max.	1.5 ms	1.5 ms	50 ms
- at "1" to "0", max.	1.5 ms	1.5 ms	50 ms
Digital outputs			
Number of digital outputs	8	8; Relays	8; Relays
short-circuit protection	Yes	No	No
Controlling a digital input	Yes	Yes	Yes
Switching capacity of the outputs			
• on lamp load, max.		1 000 W	1 000 W
Parallel switching of 2 outputs			
• for increased power	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
- Thermal continuous current, max.	0.3 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			
Degree of protection to EN 60529			
• IP20	Yes	Yes	Yes

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Technical specifications (continued)

Article number	6ED1055-1CB10-0BA0 LOGO! DM16 24, EXP. MOD., 4DU, 8DI/DO	6ED1055-1NB10-0BA0 LOGO! DM16 24R, EXP. MOD., 4DU, 8DI/DO	6ED1055-1FB10-0BA0 LOGO! DM16 230R, EXP. MOD., 4DU, 8DI/DO
Standards, approvals, certificates			
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			
• Marine approval	Yes	Yes	Yes
Ambient conditions			
Ambient temperature in operation			
• Min.	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C
Dimensions			
Width	72 mm; 4 WU	72 mm; 4 WU	72 mm; 4 WU
Height	90 mm	90 mm	90 mm
Depth	53 mm	53 mm	53 mm

Article number	6ED1055-1MA00-0BA0 LOGO! AM2 EXP. MOD., 12/24V, 2AI, 0-10V	6ED1055-1MD00-0BA1 LOGO! AM2 RDT, 2AI, -50..+200DECR/C
Product type designation		
Installation type/mounting		
Mounting	on 35 mm DIN rail, 2 spacing units wide	
Supply voltage		
Rated value (DC)		
• 12 V DC	Yes	Yes; 10.8V DC to 28.8V DC
• 24 V DC	Yes	Yes; 10.8V DC to 28.8V 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	
Input ranges (rated values), currents		
• 0 to 20 mA	Yes	
EMC		
Emission of radio interference acc. to EN 55 011		
• Limit class B, for use in residential areas	Yes	Yes; Radio interference suppression according to EN55011, Limit Value Class B
Degree and class of protection		
Degree of protection to EN 60529		
• IP20	Yes	Yes

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Technical specifications (continued)

Article number	**6ED1055-1MA00-0BA0** LOGO! AM2 EXP. MOD., 12/24V, 2AI, 0-10V	**6ED1055-1MD00-0BA1** LOGO! AM2 RDT, 2AI, -50..+200DECR/C
Standards, approvals, certificates		
CSA approval	Yes	Yes; C22.2 Number 142
UL approval	Yes	Yes; UL 508
FM approval	Yes	Yes; FM-Standards No. 3611, 3600, 3810 Class I, Division 2, Group A, B, C, D
Developed in accordance with IEC 61131	Yes	Yes; EN 61131-2 (IEC 1131-2)
according to VDE 0631	Yes	
Marine approval		
• Marine approval	Yes	Yes; ABS, BV, DNV, GL, LRS, Class NK
Ambient conditions		
Ambient temperature in operation		
• Min.	0 °C	0 °C
• max.	55 °C	55 °C
Dimensions		
Width	36 mm	36 mm
Height	90 mm	90 mm
Depth	55 mm	53 mm

Article number	**6ED1055-1MM00-0BA1** LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20MA
Product type designation	
Installation type/mounting	
Mounting	on 35 mm DIN rail, 2 spacing units wide
Supply voltage	
Rated value (DC)	
• 12 V DC	No
• 24 V DC	Yes
Analog outputs	
Number of analog outputs	2
Output ranges, voltage	
• 0 to 10 V	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class B, for use in residential areas	Yes; Radio interference suppression according to EN 55011, Limit Value Class B
Degree and class of protection	
Degree of protection to EN 60529	
• IP20	Yes

Article number	**6ED1055-1MM00-0BA1** LOGO! AM2 AQ, 2AQ, 0-10V, 0/4-20MA
Standards, approvals, certificates	
CSA approval	Yes
UL approval	Yes
FM approval	Yes
Developed in accordance with IEC 61131	Yes
according to VDE 0631	Yes
Marine approval	
• Marine approval	Yes
Ambient conditions	
Ambient temperature in operation	
• Min.	0 °C
• max.	55 °C
Dimensions	
Width	36 mm
Height	90 mm
Depth	55 mm

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LOGO! modular expansion modules

Ordering data	Article No.
LOGO! 8 expansion modules	
LOGO! DM8 24 24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A	**6ED1055-1CB00-0BA2**
LOGO! DM16 24 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 digital outputs 24 V DC, 0.3 A	**6ED1055-1CB10-0BA2**
LOGO! DM8 12/24R 12...24 V DC supply voltage, 4 digital inputs 12...24 V DC, 4 relay outputs 5 A	**6ED1055-1MB00-0BA2**
LOGO! DM8 24R 24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A	**6ED1055-1HB00-0BA2**
LOGO! DM16 24R 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 relay outputs 5 A	**6ED1055-1NB10-0BA2**
LOGO! DM8 230R 115...230 V AC/DC supply voltage, 4 digital inputs 115...230 V AC/DC, 4 relay outputs 5 A	**6ED1055-1FB00-0BA2**
LOGO! DM16 230R 115...230 V AC/DC supply voltage, 8 digital inputs 115...230 V AC/DC, 8 relay outputs 5 A	**6ED1055-1FB10-0BA2**
LOGO! AM2 12...24 V DC supply voltage, 2 analog inputs 0 to 10 V or 0 to 20 mA, resolution 10 bits	**6ED1055-1MA00-0BA2**
LOGO! AM2 PT 100 12...24 V DC supply voltage, 2 analog inputs Pt100, temperature range -50 °C to 200 °C	**6ED1055-1MD00-0BA2**
LOGO! AM2 AQ 24 V DC supply voltage, 2 analog outputs 0 to 10 V, 0/4 to 20 mA	**6ED1055-1MM00-0BA2**
LOGO! 6 expansion modules	
LOGO! DM8 24 24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A	**6ED1055-1CB00-0BA0**
LOGO! DM16 24 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 digital outputs 24 V DC, 0.3 A	**6ED1055-1CB10-0BA0**
LOGO! DM8 12/24R 12/24 V DC supply voltage, 4 digital inputs 12/24 V DC, 4 relay outputs 5 A	**6ED1055-1MB00-0BA1**

	Article No.
LOGO! DM8 24R 24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A	**6ED1055-1HB00-0BA0**
LOGO! DM16 24R 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 relay outputs 5 A	**6ED1055-1NB10-0BA0**
LOGO! DM8 230R 115/230 V AC/DC supply voltage, 4 digital inputs 115/230 V AC/DC, 4 relay outputs 5 A	**6ED1055-1FB00-0BA1**
LOGO! DM16 230R 115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 8 relay outputs 5 A	**6ED1055-1FB10-0BA0**
LOGO! AM2 12/24 V DC supply voltage, 2 analog inputs 0 to 10 V or 0 to 20 mA, 10-bit resolution	**6ED1055-1MA00-0BA0**
LOGO! AM2 PT 100 12/24 V DC supply voltage, 2 analog inputs Pt100, temperature range -50 °C ... 200 °C	**6ED1055-1MD00-0BA1**
LOGO! AM2 AQ 24 V DC supply voltage, 2 analog outputs 0 to 10 V, 0/4 to 20 mA	**6ED1055-1MM00-0BA1**
Accessories for LOGO! 8	
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**
Accessories for LOGO! 6	
LOGO! Memory Card For copying, with know-how protection	**6ED1056-1DA00-0BA0**
LOGO!Soft Comfort V8 For programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8, on DVD	**6ED1058-0CA08-0YE1**
LOGO! PC cable For program transfer between LOGO! and the PC	**6ED1057-1AA00-0BA0**

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Overview

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

Note:

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

Technical specifications

Article number	**6AG1055-1CB00-2BY0**	**6AG1055-1PB00-2BY0**	**6AG1055-1HB00-2BY0**	**6AG1055-1MB00-2BY1**
Based on	**6ED1055-1CB00-0BA0**	**6ED1055-1PB00-0BA0**	**6ED1055-1HB00-0BA0**	**6ED1055-1MB00-0BA1**
	SIPLUS LOGO! DM8 24	SIPLUS LOGO! DM8 12/24	SIPLUS LOGO! DM8 24R (-2BY0)	SIPLUS LOGO! DM8 12/24R
Ambient conditions				
Ambient temperature in operation				
• Min.	-40 °C; = Tmin	-40 °C; = Tmin	-40 °C; = Tmin	-40 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions				
• Relative to ambient temperature-atmospheric pressure-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)	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)	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)	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)
Relative humidity				
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance				
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

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Technical specifications (continued)

Article number	**6AG1055-1FB00-2XB1**	**6AG1055-1FB00-2BY1**	**6AG1055-1NB10-2BA0**
Based on	**6ED1055-1FB00-0BA1**	**6ED1055-1FB00-0BA1**	**6ED1055-1NB10-0BA0**
	SIPLUS LOGO! DM8 230R	SIPLUS LOGO! DM8 230R	SIPLUS LOGO! DM16 24R EXPANSION MODULE
Ambient conditions			
Ambient temperature in operation			
• Min.	-25 °C; = Tmin	-40 °C; = Tmin	-25 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions			
• Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	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)
Relative humidity			
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance			
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

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Technical specifications (continued)

Article number	6AG1055-1MA00-2BY0
Based on	6ED1055-1MA00-0BA0 SIPLUS LOGO! AM2
Ambient conditions	
Ambient temperature in operation	
• Min.	-40 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions	
• Relative to ambient temperature-atmospheric pressure-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)
Relative humidity	
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Article number	6AG1055-1MM00-2BY1
Based on	6ED1055-1MM00-0BA1 SIPLUS_LOGO!_AM2_AQ
Ambient conditions	
Ambient temperature in operation	
• Min.	-40 °C; = Tmin
• max.	70 °C; = Tmax; 55 °C @ UL/cUL use
Extended ambient conditions	
• Relative to ambient temperature-atmospheric pressure-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)
Relative humidity	
- With condensation, max.	100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
- against biologically active substances / conformity with EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
- against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Ordering data

	Article No.
SIPLUS LOGO! DM8 24	
24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A	
Extended temperature range and exposure to media	**6AG1055-1CB00-2BY0**
SIPLUS LOGO! DM8 230R	
115/230 V AC/DC supply voltage, 4 digital inputs 115/230 V AC/DC, 4 relay outputs 5 A	
Extended temperature range and exposure to media	**6AG1055-1FB00-2BY1**
SIPLUS LOGO! DM8 24R	
24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A	
Extended temperature range and exposure to media	**6AG1055-1HB00-2BY0**
SIPLUS LOGO! AM2	
12/24 V DC supply voltage, 2 analog inputs 0 ... 10 V or 0 ... 20 mA, 10-bit resolution	
Extended temperature range and exposure to media	**6AG1055-1MA00-2BY0**
SIPLUS LOGO! DM8 12/24R	
12/24 V DC supply voltage, 4 digital inputs 12/24 V DC, 4 relay outputs 5 A	
Extended temperature range and exposure to media	**6AG1055-1MB00-2BY1**

	Article No.
SIPLUS LOGO! AM2 AQ	
24 V DC supply voltage, 2 analog inputs 0 ... 10 V, 0/4 ... 20 mA, 10-bit resolution	
Extended temperature range and exposure to media	**6AG1055-1MM00-2BY1**
SIPLUS LOGO! DM16 24R	
24 V DC supply voltage, 8 digital outputs 24 V DC, 8 relay outputs 5 A	
Extended temperature range and exposure to media	**6AG1055-1NB10-2BA0**
SIPLUS LOGO! DM8 12/24	
12/24 V DC supply voltage, 4 digital inputs 12/24 V DC, 4 digital outputs 24 V DC, 0.3 A	
Extended temperature range and exposure to media	**6AG1055-1PB00-2BY0**
Accessories	
SIPLUS Upmiter upstream device	**6AG1053-1AA00-2AA0**
for reliable operation at the battery of combustion engines	
Further accessories	See LOGO! modular pure variants, page 2/26

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LOGO! modular communication modules

Overview

- Communication modules for connecting LOGO! modular to different bus systems.

Note on compatibility:

Communication module	Can be used with:
LOGO! CM EIB/KNX communication module	LOGO! to ...0BA7
LOGO! CSM 12/24	LOGO! ...0BA7/...0BA8
LOGO! CSM 230	LOGO! ...0BA7
LOGO! CMR2020	LOGO! ...0BA8
LOGO! CMR2040	LOGO! ...0BA8
AS-Interface connection for LOGO!	LOGO! to ...0BA7

LOGO! CM EIB/KNX communication modules

Overview

- Expansion module for LOGO! basic versions
- For communication between the LOGO! master and external *EIB* components through *EIB*

Technical specifications

CM EIB/KNX	
Supply voltage	24 V AC/DC
Inputs, max.	16 DI/12 DO/8 AI/2 AO
Outputs, max.	16 digital
Continuous current	25 mA
Short-circuit protection	External fuse protection is required
Integrated time switches/power reserve	-
Ambient temperature	0 … +55°C
RI specification	To EN 55 011 (limit class B)
Degree of protection	IP20
Certification	to VDE 0631, IEC61131-2, cULus, FM
Mounting	On DIN rail 35 mm, 2 module widths wide
Dimensions (W x H x D) in mm	36 (2 MW) × 90 × 55

Ordering data

	Article No.
LOGO! CM EIB KNX communication module For connection to *EIB*, 24 V DC supply voltage; for LOGO! to ...0BA7	**6BK1700-0BA00-0AA2**

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Overview

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

The essential features of the LOGO! CSM are:

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

Technical specifications

Article number	**6GK7177-1FA10-0AA0**	**6GK7177-1MA20-0AA0**
Product type designation	LOGO! CSM 230	LOGO! CSM 12/24
Transmission rate		
Transfer rate	10 Mbit/s, 100 Mbit/s	10 Mbit/s, 100 Mbit/s
Interfaces		
Number of electrical/optical connections		
• for network components or terminal equipment maximum	4	4
Number of electrical connections		
• for network components or terminal equipment	4	4
Type of electrical connection		
• for network components or terminal equipment	RJ45 port / 1 connection on front of module	RJ45 port / 1 connection on front of module
• for power supply	3-pole terminal block	3-pole terminal block
Supply voltage, current consumption, power loss		
Type of voltage of the supply voltage	AC/DC 115...240 V	DC 12/24 V
Supply voltage		
• external	230 V	24 V
• external	100 ... 240 V	10.2 ... 30.2 V
Product component fusing at power supply input	Yes	Yes
Consumed current maximum	0.02 A	0.15 A
Active power loss		
• for DC at 24 V		1.5 W
• with AC at 230 V	1.8 W	
Permitted ambient conditions		
Ambient temperature		
• during operation	0 ... 55 °C	0 ... 55 °C
• during storage	-40 ... +70 °C	-40 ... +70 °C
• during transport	-40 ... +70 °C	-40 ... +70 °C
Relative humidity		
• at 25 °C without condensation during operation maximum	90 %	90 %
Protection class IP	IP20	IP20

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Technical specifications (continued)

Article number	6GK7177-1FA10-0AA0	6GK7177-1MA20-0AA0
Product type designation	LOGO! CSM 230	LOGO! CSM 12/24
Design, dimensions and weight		
Design	LOGO! module	LOGO! module
Width	72 mm	71.5 mm
Height	90 mm	90 mm
Depth	55 mm	58.2 mm
Net weight	0.155 kg	0.15 kg
Mounting type		
• 35 mm DIN rail mounting	Yes	Yes
• wall mounting	Yes	Yes
• S7-300 rail mounting	No	No
• S7-1500 rail mounting	No	No
Product functions management, configuration		
Product function		
• multiport mirroring	No	No
• switch-managed	No	No
Standards, specifications, approvals		
Standard		
• for FM	FM3600 and 3611: CL. I, Div2, Group A,B,C,D T4, CL I, Zone 2, Group IIC, T4, Ta=0 +55°C	
• for hazardous zone	no	ATEX: EN 60079-0 : 2009,EN 60079-15 :2010 (Directive 94/9/EC), IECEx: IEC 60079-0 :2011, IEC 60079-15 :2010
• for safety from CSA and UL	UL60079-0, UL60079-15, CSA C22.2	UL 508, CSA C22.2 No. 142
• for hazardous zone from CSA and UL		Haz-Loc ANSI/ISA 12.12.01: CL. I, Div2, Group A,B,C,D T4, CL I, Zone 2, Group IIC, T4, Ta=0 +55°C
Certificate of suitability		
• CE marking	Yes	Yes
• RCM	Yes	Yes
• KC approval	No	No
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	No	No
• Bureau Veritas (BV)	No	No
• Det Norske Veritas (DNV)	No	No
• Germanische Lloyd (GL)	No	No
• Lloyds Register of Shipping (LRS)	No	No
• Nippon Kaiji Kyokai (NK)	No	No
• Polski Rejestr Statkow (PRS)	No	No

Ordering data

	Article No.
LOGO! CSM compact switch modules	
Unmanaged switch for connection of one LOGO! and up to three further nodes on Industrial Ethernet with 10/100 Mbps; 4 x RJ45 ports; LED diagnostics, LOGO! module	
• **LOGO! CSM 12/24** external 12 V DC or 24 V DC power supply, for LOGO! ... 0BA7/... 0BA8	**6GK7177-1MA20-0AA0**
• **LOGO! CSM 230** external 115 ... 240 V AC power supply, for LOGO! ... 0BA7	**6GK7177-1FA10-0AA0**

	Article No.
Accessories	
IE TP Cord RJ45/RJ45	
TP cable 4 x 2 with 2 RJ45 plugs	
• 0.5 m	**6XV1870-3QE50**
• 1 m	**6XV1870-3QH10**
• 2 m	**6XV1870-3QH20**
• 6 m	**6XV1870-3QH60**
• 10 m	**6XV1870-3QN10**
IE FC Outlet RJ45	**6GK1901-1FC00-0AA0**
For connection of Industrial Ethernet FC cables and TP Cords; graded prices from 10 and 50 units	

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Overview

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

LOGO! CMR can send text messages to predefined mobile network numbers and it can also receive text messages from predefined mobile network numbers.

Sending a text message 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! basic module can be directly influenced by receiving a text message.

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, LOGO! BM can be time-synchronized by means of the time included in the GPS signal.

Determining the 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 variant:

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

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

DE: www.siemens.de/mobilfunkzulassungen

EN: www.siemens.com/mobilenetwork-approvals

Technical specifications

Article number	**6GK7142-7BX00-0AX0**	**6GK7142-7EX00-0AX0**
Product type designation	LOGO! CMR2020	LOGO! CMR2040
Transmission rate		
Transfer rate		
• at the 1st interface	10 ... 100 Mbit/s	10 ... 100 Mbit/s
• for GPRS transmission with downlink maximum	80 kbit/s	85.6 kbit/s
• for GPRS transmission with uplink maximum	40 kbit/s	85.6 kbit/s
• for LTE transmission with downlink maximum		100 Mbit/s
• for LTE transmission with uplink maximum		50 Mbit/s
Interfaces		
Number of interfaces acc. to Industrial Ethernet	1	1
Number of electrical connections		
• at the 1st interface acc. to Industrial Ethernet	1	1
• for external antenna(s)	2	2
• for power supply	1	1
Number of slots		
• for SIM cards	1	1
• for memory cards	1	1
Type of electrical connection		
• at the 1st interface acc. to Industrial Ethernet	RJ45 port	RJ45 port
• for external antenna(s)	SMA socket (50 ohms)	SMA socket (50 ohms)
• for power supply	3-pole terminal block	3-pole terminal block
Type of antenna		
• at port 1 connectable	GPS Antenna	GPS Antenna
• at port 2 connectable	Mobile radio antenna (GPRS/GSM)	Mobile radio antenna (GPRS/GSM)
Slot version		
• for SIM card	Standard	Standard
• of the memory card	microSD	microSD

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Technical specifications (continued)

Article number	6GK7142-7BX00-0AX0	6GK7142-7EX00-0AX0
Product type designation	LOGO! CMR2020	LOGO! CMR2040
Storage capacity of the memory card maximum	8 Gibyte	8 Gibyte
Performance class of the memory card minimum necessary	Class 6	Class 6
Type of file system of the memory card	FAT32	FAT32
Signal-Inputs/outputs		
Number of electrical connections for digital input signals	2	2
Type of electrical connection for digital input signals	3 pole terminal block	3 pole terminal block
Digital input version	not potential seperated	not potential seperated
Input voltage at digital input		
• with signal <0> for DC	0 ... 5 V	0 ... 5 V
• for signal <1> for DC	8.5 ... 24 V	8.5 ... 24 V
Input current at digital input for signal <1> maximum	5.5 mA	5.5 mA
Number of electrical connections for digital output signals	2	2
Type of electrical connection for digital output signals	3 pole terminal block	3 pole terminal block
Digital output version	transistor, not potential seperated	transistor, not potential seperated
Output voltage at digital output		
• for signal <1>	12 ... 24 V; value of the actual supply voltage	12 ... 24 V; value of the actual supply voltage
• for signal <0>	0 ... 5 V	0 ... 5 V
Output current at digital output for signal <1> maximum	0.3 A	0.3 A
Wireless technology		
Type of mobile wireless service		
• is supported	SMS, GPRS	SMS, GPRS
• Note	GPRS (Multislot Class 10, Mobile Station Class B)	LTE
Type of mobile network is supported	GSM	GSM, UMTS, LTE
Operating frequency		
• for GSM transmission	850 MHz, 900 MHz, 1800 MHz, 1900 MHz	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
• with UMTS transmission		900 MHz, 2100 MHz
• for LTE transmission		800 MHz, 1800 MHz, 2600 MHz
Supply voltage, current consumption, power loss		
Type of voltage of the supply voltage	DC	DC
Supply voltage external	12 ... 24 V	12 ... 24 V
Supply voltage for GPS antenna maximum	3.8 V; at 5 mA: 3,575 V / at 10 mA: 3,35 V / at 15 mA: 3,125 V	3.8 V; at 5 mA: 3,575 V / at 10 mA: 3,35 V / at 15 mA: 3,125 V
Relative positive tolerance for DC at 24 V	20 %	20 %
Relative negative tolerance for DC at 12 V	10 %	10 %
Consumed current		
• from external supply voltage for DC at 12 V maximum	0.25 A	0.25 A
• from external supply voltage for DC at 24 V maximum	0.125 A	0.125 A
Output current for GPS antenna maximum	15 mA	15 mA
Active power loss	3 W	3 W

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Technical specifications (continued)

Article number	**6GK7142-7BX00-0AX0**	**6GK7142-7EX00-0AX0**
Product type designation	LOGO! CMR2020	LOGO! CMR2040
Permitted ambient conditions		
Ambient temperature		
• during operation	-20 ... +70 °C	-20 ... +70 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
• during transport	-40 ... +85 °C	-40 ... +85 °C
Relative humidity at 25 °C without condensation during operation maximum	95 %	95 %
Protection class IP	IP20	IP20
Design, dimensions and weight		
Module format	Compact module, for rail mounting	Compact module, for rail mounting
Width	71.5 mm	71.5 mm
Height	90 mm	90 mm
Depth	58.2 mm	58.2 mm
Net weight	0.16 kg	0.16 kg
Mounting type		
• 35 mm DIN rail mounting	Yes	Yes
• wall mounting	Yes	Yes
Performance data		
Number of possible connections to the LOGO! logic module	1	1
Number of users/telephon numbers definable maximum	20	20
Number of user groups definable maximum	20	20
Number of signals for monitoring or device control definable maximum	32	32
Number of events for monitoring definable maximum	32	32
number of actions definable maximum	32	32
Product functions management, configuration		
Configuration software		
• required	WEB-Interface	WEB-Interface
Product functions Diagnosis		
Product function Web-based diagnostics	Yes	Yes
Product functions Security		
Product function		
• password protection for Web applications	Yes	Yes
• switch-off of non-required services	Yes	Yes
• log file for unauthorized access	Yes	Yes
Product functions Time		
Product function pass on time synchronization	Yes	Yes
time synchronization		
• from NTP-server	Yes	Yes
• from GPS-signal	Yes	Yes
• from mobile network provider	Yes	Yes
Product functions Position recognition		
Product function position detection with GPS	Yes	Yes

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LOGO! CMR (wireless communication)

Ordering data	Article No.
Communication Module Radio LOGO! CMR Communication modules for connection of LOGO! 0BA8 to GSM/GPRS or LTE network; 1x RJ45 port for Industrial Ethernet connection; 2x digital input; 2x digital output; read/write access to LOGO! tags; possible to send/receive text messages; GPS position detection; time-of-day synchronization/forwarding with real time clock; configuration and diagnostics per Web interface; observe country approval	
LOGO! CMR2020 For connecting LOGO! 0BA8 to a GSM/GPRS network	**6GK7142-7BX00-0AX0**
LOGO! CMR2040 For connecting LOGO! 0BA8 to an LTE network;	**6GK7142-7EX00-0AX0**
Accessories	
Mobile radio antennas	
ANT794-4MR For indoor and outdoor use; 5 m connecting cable permanently connected to antenna; SMA connector; incl. installation bracket, screws, wall plugs	**6NH9860-1AA00**
ANT896-4MA Rod antenna for direct mounting on device; SMA male connector	**6GK5896-4MA00-0AA3**
ANT896-4ME Cylinder-shaped 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 installation indoor and outdoor, magnet or screw mounting, 30 cm cable with N-Connect female connector	**6GK5895-6ML00-0AA0**

	Article No.
Antenna adapter cable N-Connect/SMA male/male Flexible Connection Cable, pre-fabricated, connection cable; suitable for 0 ... 6 GHz, IP68	
• 0.3 m	**6XV1875-5LE30**
• 1 m	**6XV1875-5LH10**
• 2 m	**6XV1875-5LH20**
• 5 m	**6XV1875-5LH50**
IWLAN RCoax/antenna N-Connect male/male Flexible connection cable Flexible connecting cable for connecting an RCoax cable or antenna to a SCALANCE W-700 access point with N-Connect connections; pre-assembled with two N-Connect male connections; suitable from 0 ... 6 GHz, IP68	
• 1 m	**6XV1875-5AH10**
• 2 m	**6XV1875-5AH20**
• 5 m	**6XV1875-5AH50**
• 10 m	**6XV1875-5AN10**
Cabinet feedthrough IWLAN RCOAX N-Connect/ N-Connect female/female Panel Feedthrough; control cabinet feedthrough for wall thickness max. 4.5 mm; 2.4 GHz and 5 GHz, suitable for 0 ... 6 GHz, IP67	**6GK5798-2PP00-2AA6**
Lightning protector LP798-2N Lightning protector with N/N female/female connection for ANT 790 antennas, IP67 (-40 to +85 °C), frequency range: 0 … 6 GHz	**6GK5798-2LP00-2AA6**
Patch cable	
IE TP Cord RJ45/RJ45 TP cable 4 x 2 with 2 RJ45 plugs	
• 0.5 m	**6XV1870-3QE50**
• 1 m	**6XV1870-3QH10**
• 2 m	**6XV1870-3QH20**
• 6 m	**6XV1870-3QH60**
• 10 m	**6XV1870-3QN10**
IE FC Outlet RJ45 For connection of Industrial Ethernet FC cables and TP cords; graduated prices for 10 and 50 units or more	**6GK1901-1FC00-0AA0**

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Overview

Every LOGO! can now be connected to the AS-Interface system

AS-Interface connection for LOGO!

Using the AS-Interface connection for LOGO!, an intelligent slave can be integrated in the AS-Interface system. With the modular interface it becomes possible to integrate the different basic units in the system according to their functionality. Similarly, functionalities can be quickly and easily adapted to new requirements by exchanging the basic unit.

The interface module provides four inputs and four outputs on the system. These inputs and outputs do not actually exist in hardware terms, however, but are only virtually present through the interface on the bus.

Ordering data

	Article No.
AS-Interface connection for LOGO!	**3RK1400-0CE10-0AA2**

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Overview

The flat power supply unit for distribution boards

Our new miniature power supply units in the same design as the logic modules offer great performance in the smallest space: Efficiency has been improved across the entire load range, and the low power losses in no-load operation ensure efficient operation. The wide-range input for 1-phase networks as well as operation with direct voltage, the wide operating temperature range, comprehensive certifications as well as the switch-on behavior optimized for capacitive loads makes them suitable for universal use. These reliable power supplies with their flat, stepped profile can be used extremely flexibly in numerous applications such as in distribution boards, for example.

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

Main product highlights

- 5 V DC/ 3 A and 6.3 A, 12 V DC/ 1.9 A and 4.5 A, 15 V DC/ 1.9 A and 4 A as well as 24 V DC/ 1.3 A, 2.5 A and 4 A
- 1-phase, wide-range input for 85 V to 264 V AC or 110 V to 300 V DC
- Flat LOGO! design with an installation depth of only 55 mm
- High efficiency across the entire load range, low no-load losses
- Power reserve on starting up through 1.5 times the rated current for capacitive loads
- Wide temperature range from -20 to +70 °C
- Comprehensive certifications, such as cULus, CB, FM, ATEX, cCSAus Class I Div. 2, GL and ABS

Technical specifications

Article number	**6EP1311-1SH03**	**6EP1311-1SH13**
Product	LOGO!Power	LOGO!Power
Power supply, type	5 V/3 A	5 V/6.3 A
Input		
Input	1-phase AC or DC	1-phase AC or DC
Rated voltage value $V_{in\ rated}$	100 ... 240 V	100 ... 240 V
Voltage range AC	85 ... 264 V	85 ... 264 V
Input voltage		
• for DC	110 ... 300 V	110 ... 300 V
Wide-range input	Yes	Yes
Overvoltage resistance	2.3 × $V_{in\ rated}$, 1.3 ms	2.3 × $V_{in\ rated}$, 1.3 ms
Mains buffering at $I_{out\ rated}$, min.	40 ms; at V_{in} = 187 V	40 ms; at V_{in} = 187 V
Rated line frequency	50 ... 60 Hz	50 ... 60 Hz
Rated line range	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
Switch-on current limiting (+25 °C), max.	26 A	50 A
I^2t, max.	0.8 $A^2 \cdot s$	3 $A^2 \cdot s$
Built-in incoming fuse	internal	internal
Protection in the mains power input (IEC 60898)	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C

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Technical specifications (continued)

Article number	**6EP1311-1SH03**	**6EP1311-1SH13**
Product	LOGO!Power	LOGO!Power
Power supply, type	5 V/3 A	5 V/6.3 A
Output		
Output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
Rated voltage V_{out} DC	5 V	5 V
Total tolerance, static ±	3 %	3 %
Static mains compensation, approx.	0.2 %	0.1 %
Static load balancing, approx.	1.5 %	2 %
Residual ripple peak-peak, max.	100 mV	100 mV
Residual ripple peak-peak, typ.	10 mV	15 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV	70 mV
Adjustment range	4.6 ... 5.4 V	4.6 ... 5.4 V
Product function Output voltage adjustable	Yes	Yes
Output voltage setting	via potentiometer	via potentiometer
Status display	Green LED for output voltage OK	Green LED for output voltage OK
On/off behavior	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
Startup delay, max.	0.5 s	0.5 s
Voltage rise, typ.	20 ms	10 ms
Rated current value $I_{out\ rated}$	3 A	6.3 A
Current range	0 ... 3 A	0 ... 6.3 A
• Note	+55 ... +70 °C: Derating 2%/K	+55 ... +70 °C: Derating 2%/K
Active power supplied typical	15 W	30 W
Parallel switching for enhanced performance	Yes	Yes
Numbers of parallel switchable units for enhanced performance	2	2
Efficiency		
Efficiency at $V_{out\ rated}$, $I_{out\ rated}$, approx.	77 %	83 %
Power loss at $V_{out\ rated}$, $I_{out\ rated}$, approx.	4 W	6 W
Active power loss during no-load operation maximum	1.5 W	1.5 W
Closed-loop control		
Dynamic mains compensation ($V_{in\ rated}$ ±15 %), max.	0.2 %	0.2 %
Dynamic load smoothing (I_{out}: 10/90/10 %), U_{out} ± typ.	3 %	3 %
Load step setting time 10 to 90%, typ.	2 ms	2 ms
Load step setting time 90 to 10%, typ.	2 ms	2 ms
Protection and monitoring		
Output overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1
Current limitation, typ.	3.8 A	8.2 A
Property of the output Short-circuit proof	Yes	Yes
Short-circuit protection	Constant current characteristic	Constant current characteristic
Enduring short circuit current RMS value		
• maximum	5 A	10 A
Overload/short-circuit indicator	-	-

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Technical specifications (continued)

Article number	6EP1311-1SH03	6EP1311-1SH13
Product	LOGO!Power	LOGO!Power
Power supply, type	5 V/3 A	5 V/6.3 A
Safety		
Primary/secondary isolation	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
Protection class	Class II (without protective conductor)	Class II (without protective conductor)
CE mark	Yes	Yes
UL/CSA approval	Yes	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	No	No
Certificate of suitability NEC Class 2	Yes	No
FM approval	Class I, Div. 2, Group ABCD, T4	Class I, Div. 2, Group ABCD, T4
CB approval	Yes	Yes
Marine approval	GL, ABS	GL, ABS
Degree of protection (EN 60529)	IP20	IP20
EMC		
Emitted interference	EN 55022 Class B	EN 55022 Class B
Supply harmonics limitation	not applicable	not applicable
Noise immunity	EN 61000-6-2	EN 61000-6-2
Operating data		
Ambient temperature		
• during operation	-20 ... +70 °C	-20 ... +70 °C
- Note	with natural convection	with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation	Climate class 3K3, no condensation
Mechanics		
Connection technology	screw-type terminals	screw-type terminals
Connections		
• Supply input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded	L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
• Auxiliary	-	-
Width of the enclosure	54 mm	72 mm
Height of the enclosure	90 mm	90 mm
Depth of the enclosure	52.6 mm	52.6 mm
Weight, approx.	0.17 kg	0.25 kg
Product property of the enclosure housing for side-by-side mounting	Yes	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
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)

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Technical specifications (continued)

Article number	**6EP1321-1SH03**	**6EP1322-1SH03**
Product	LOGO!Power	LOGO!Power
Power supply, type	12 V/1.9 A	12 V/4.5 A
Input		
Input	1-phase AC or DC	1-phase AC or DC
Rated voltage value $V_{in\ rated}$	100 ... 240 V	100 ... 240 V
Voltage range AC	85 ... 264 V	85 ... 264 V
Input voltage		
• for DC	110 ... 300 V	110 ... 300 V
Wide-range input	Yes	Yes
Overvoltage resistance	2.3 × $V_{in\ rated}$, 1.3 ms	2.3 × $V_{in\ rated}$, 1.3 ms
Mains buffering at $I_{out\ rated}$, min.	40 ms; at V_{in} = 187 V	40 ms; at V_{in} = 187 V
Rated line frequency	50 ... 60 Hz	50 ... 60 Hz
Rated line range	47 ... 63 Hz	47 ... 63 Hz
Input current		
• at rated input voltage 120 V	0.53 A	1.13 A
• at rated input voltage 230 V	0.3 A	0.61 A
Switch-on current limiting (+25 °C), max.	25 A	55 A
I^2t, max.	0.8 $A^2 \cdot s$	3 $A^2 \cdot s$
Built-in incoming fuse	internal	internal
Protection in the mains power input (IEC 60898)	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C
Output		
Output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
Rated voltage V_{out} DC	12 V	12 V
Total tolerance, static ±	3 %	3 %
Static mains compensation, approx.	0.1 %	0.1 %
Static load balancing, approx.	1.5 %	1.5 %
Residual ripple peak-peak, max.	200 mV	200 mV
Residual ripple peak-peak, typ.	10 mV	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV	70 mV
Adjustment range	10.5 ... 16.1 V	10.5 ... 16.1 V
Product function Output voltage adjustable	Yes	Yes
Output voltage setting	via potentiometer	via potentiometer
Status display	Green LED for output voltage OK	Green LED for output voltage OK
On/off behavior	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
Startup delay, max.	0.5 s	0.5 s
Voltage rise, typ.	10 ms	10 ms
Rated current value $I_{out\ rated}$	1.9 A	4.5 A
Current range	0 ... 1.9 A	0 ... 4.5 A
• Note	+55 ... +70 °C: Derating 2%/K	+55 ... +70 °C: Derating 2%/K
Active power supplied typical	23 W	50 W
Parallel switching for enhanced performance	Yes	Yes
Numbers of parallel switchable units for enhanced performance	2	2
Efficiency		
Efficiency at V_{out} rated, $I_{out\ rated}$, approx.	80 %	85 %
Power loss at V_{out} rated, $I_{out\ rated}$, approx.	5 W	10 W
Active power loss during no-load operation maximum	1.8 W	1.9 W

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Technical specifications (continued)

Article number	6EP1321-1SH03	6EP1322-1SH03
Product	LOGO!Power	LOGO!Power
Power supply, type	12 V/1.9 A	12 V/4.5 A
Closed-loop control		
Dynamic mains compensation ($V_{in\ rated}$ ±15 %), max.	0.2 %	0.2 %
Dynamic load smoothing (I_{out}: 10/90/10 %), U_{out} ± typ.	3 %	4 %
Load step setting time 10 to 90%, typ.	1 ms	1 ms
Load step setting time 90 to 10%, typ.	1 ms	1 ms
Protection and monitoring		
Output overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1
Current limitation, typ.	2.8 A	5.8 A
Property of the output Short-circuit proof	Yes	Yes
Short-circuit protection	Constant current characteristic	Constant current characteristic
Enduring short circuit current RMS value		
• maximum	3.6 A	7 A
Overload/short-circuit indicator	-	-
Safety		
Primary/secondary isolation	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
Protection class	Class II (without protective conductor)	Class II (without protective conductor)
CE mark	Yes	Yes
UL/CSA approval	Yes	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	No	No
Certificate of suitability NEC Class 2	Yes	No
FM approval	Class I, Div. 2, Group ABCD, T4	Class I, Div. 2, Group ABCD, T4
CB approval	Yes	Yes
Marine approval	GL, ABS	GL, ABS
Degree of protection (EN 60529)	IP20	IP20
EMC		
Emitted interference	EN 55022 Class B	EN 55022 Class B
Supply harmonics limitation	not applicable	not applicable
Noise immunity	EN 61000-6-2	EN 61000-6-2
Operating data		
Ambient temperature		
• during operation	-20 ... +70 °C	-20 ... +70 °C
- Note	with natural convection	with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation	Climate class 3K3, no condensation

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Technical specifications (continued)

Article number	6EP1321-1SH03	6EP1322-1SH03
Product	LOGO!Power	LOGO!Power
Power supply, type	12 V/1.9 A	12 V/4.5 A
Mechanics		
Connection technology	screw-type terminals	screw-type terminals
Connections		
• Supply input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm^2 single-core/finely stranded	L, N: 1 screw terminal each for 0.5 ... 2.5 mm^2 single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm^2	+, -: 2 screw terminals each for 0.5 ... 2.5 mm^2
• Auxiliary	-	-
Width of the enclosure	54 mm	72 mm
Height of the enclosure	90 mm	90 mm
Depth of the enclosure	52.6 mm	52.6 mm
Weight, approx.	0.17 kg	0.25 kg
Product property of the enclosure housing for side-by-side mounting	Yes	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
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)

Article number	6EP1351-1SH03	6EP1352-1SH03
Product	LOGO!Power	LOGO!Power
Power supply, type	15 V/1.9 A	15 V/4 A
Input		
Input	1-phase AC or DC	1-phase AC or DC
Rated voltage value $V_{in\ rated}$	100 ... 240 V	100 ... 240 V
Voltage range AC	85 ... 264 V	85 ... 264 V
Input voltage		
• for DC	110 ... 300 V	110 ... 300 V
Wide-range input	Yes	Yes
Overvoltage resistance	2.3 × $V_{in\ rated}$, 1.3 ms	2.3 × $V_{in\ rated}$, 1.3 ms
Mains buffering at $I_{out\ rated}$, min.	40 ms; at V_{in} = 187 V	40 ms; at V_{in} = 187 V
Rated line frequency	50 ... 60 Hz	50 ... 60 Hz
Rated line range	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
Switch-on current limiting (+25 °C), max.	25 A	55 A
I^2t, max.	0.8 $A^2 \cdot s$	3 $A^2 \cdot s$
Built-in incoming fuse	internal	internal
Protection in the mains power input (IEC 60898)	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C

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Technical specifications (continued)

Article number	6EP1351-1SH03	6EP1352-1SH03
Product	LOGO!Power	LOGO!Power
Power supply, type	15 V/1.9 A	15 V/4 A
Output		
Output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
Rated voltage V_{out} DC	15 V	15 V
Total tolerance, static ±	3 %	3 %
Static mains compensation, approx.	0.1 %	0.1 %
Static load balancing, approx.	1.5 %	1.5 %
Residual ripple peak-peak, max.	200 mV	200 mV
Residual ripple peak-peak, typ.	10 mV	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	30 mV	70 mV
Adjustment range	10.5 ... 16.1 V	10.5 ... 16.1 V
Product function Output voltage adjustable	Yes	Yes
Output voltage setting	via potentiometer	via potentiometer
Status display	Green LED for output voltage OK	Green LED for output voltage OK
On/off behavior	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
Startup delay, max.	0.5 s	0.5 s
Voltage rise, typ.	15 ms	15 ms
Rated current value $I_{out\ rated}$	1.9 A	4 A
Current range	0 ... 1.9 A	0 ... 4 A
• Note	+55 ... +70 °C: Derating 2%/K	+55 ... +70 °C: Derating 2%/K
Active power supplied typical	23 W	50 W
Parallel switching for enhanced performance	Yes	Yes
Numbers of parallel switchable units for enhanced performance	2	2
Efficiency		
Efficiency at V_{out} rated, $I_{out\ rated}$, approx.	81 %	85 %
Power loss at V_{out} rated, $I_{out\ rated}$, approx.	7 W	11 W
Active power loss during no-load operation maximum	2 W	2.3 W
Closed-loop control		
Dynamic mains compensation ($V_{in\ rated}$ ±15 %), max.	0.2 %	0.2 %
Dynamic load smoothing (I_{out}: 10/90/10 %), U_{out} ± typ.	2.8 %	3 %
Load step setting time 10 to 90%, typ.	1 ms	1 ms
Load step setting time 90 to 10%, typ.	1 ms	1 ms
Protection and monitoring		
Output overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1
Current limitation, typ.	2.7 A	5.7 A
Property of the output Short-circuit proof	Yes	Yes
Short-circuit protection	Constant current characteristic	Constant current characteristic
Enduring short circuit current RMS value		
• maximum	3.6 A	7 A
Overload/short-circuit indicator	-	-

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Technical specifications (continued)

Article number	6EP1351-1SH03	6EP1352-1SH03
Product	LOGO!Power	LOGO!Power
Power supply, type	15 V/1.9 A	15 V/4 A
Safety		
Primary/secondary isolation	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
Protection class	Class II (without protective conductor)	Class II (without protective conductor)
CE mark	Yes	Yes
UL/CSA approval	Yes	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	No	No
Certificate of suitability NEC Class 2	Yes	Yes
FM approval	Class I, Div. 2, Group ABCD, T4	Class I, Div. 2, Group ABCD, T4
CB approval	Yes	Yes
Marine approval	GL, ABS	GL, ABS
Degree of protection (EN 60529)	IP20	IP20
EMC		
Emitted interference	EN 55022 Class B	EN 55022 Class B
Supply harmonics limitation	not applicable	not applicable
Noise immunity	EN 61000-6-2	EN 61000-6-2
Operating data		
Ambient temperature		
• during operation	-20 ... +70 °C	-20 ... +70 °C
- Note	with natural convection	with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation	Climate class 3K3, no condensation
Mechanics		
Connection technology	screw-type terminals	screw-type terminals
Connections		
• Supply input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm^2 single-core/finely stranded	L, N: 1 screw terminal each for 0.5 ... 2.5 mm^2 single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm^2	+, -: 2 screw terminals each for 0.5 ... 2.5 mm^2
• Auxiliary	-	-
Width of the enclosure	54 mm	72 mm
Height of the enclosure	90 mm	90 mm
Depth of the enclosure	52.6 mm	52.6 mm
Weight, approx.	0.17 kg	0.25 kg
Product property of the enclosure housing for side-by-side mounting	Yes	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
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)

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Technical specifications (continued)

Article number	6EP1331-1SH03	6EP1332-1SH43	6EP1332-1SH52
Product	LOGO!Power	LOGO!Power	LOGO!Power
Power supply, type	24 V/1.3 A	24 V/2.5 A	24 V/4 A
Input			
Input	1-phase AC or DC	1-phase AC or DC	1-phase AC or DC
Rated voltage value $V_{in\ rated}$	100 ... 240 V	100 ... 240 V	100 ... 240 V
Voltage range AC	85 ... 264 V	85 ... 264 V	85 ... 264 V
Input voltage			
• for DC	110 ... 300 V	110 ... 300 V	110 ... 300 V
Wide-range input	Yes	Yes	Yes
Overvoltage resistance	2.3 × $V_{in\ rated}$, 1.3 ms	2.3 × $V_{in\ rated}$, 1.3 ms	2.3 × $V_{in\ rated}$, 1.3 ms
Mains buffering at $I_{out\ rated}$, min.	40 ms; at V_{in} = 187 V	40 ms; at V_{in} = 187 V	40 ms; at V_{in} = 187 V
Rated line frequency	50 ... 60 Hz	50 ... 60 Hz	50 ... 60 Hz
Rated line range	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz
Input current			
• at rated input voltage 120 V	0.7 A	1.22 A	1.95 A
• at rated input voltage 230 V	0.35 A	0.66 A	0.97 A
Switch-on current limiting (+25 °C), max.	25 A	46 A	30 A
I^2t, max.	0.8 $A^2 \cdot s$	3 $A^2 \cdot s$	2.5 $A^2 \cdot s$
Built-in incoming fuse	internal	internal	internal
Protection in the mains power input (IEC 60898)	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C
Output			
Output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
Rated voltage V_{out} DC	24 V	24 V	24 V
Total tolerance, static ±	3 %	3 %	3 %
Static mains compensation, approx.	0.1 %	0.1 %	0.1 %
Static load balancing, approx.	1.5 %	1.5 %	1.5 %
Residual ripple peak-peak, max.	200 mV	200 mV	200 mV
Residual ripple peak-peak, typ.	10 mV	10 mV	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV	300 mV	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV	50 mV	60 mV
Adjustment range	22.2 ... 26.4 V	22.2 ... 26.4 V	22.2 ... 26.4 V
Product function Output voltage adjustable	Yes	Yes	Yes
Output voltage setting	via potentiometer	via potentiometer	via potentiometer
Status display	Green LED for output voltage OK	Green LED for output voltage OK	Green LED for output voltage OK
On/off behavior	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)	No overshoot of V_{out} (soft start)
Startup delay, max.	0.5 s	0.5 s	0.5 s
Voltage rise, typ.	15 ms	10 ms	15 ms
Rated current value $I_{out\ rated}$	1.3 A	2.5 A	4 A
Current range	0 ... 1.3 A	0 ... 2.5 A	0 ... 4 A
• Note	+55 ... +70 °C: Derating 2%/K	+55 ... +70 °C: Derating 2%/K	+55 ... +70 °C: Derating 2%/K
Active power supplied typical	30 W	60 W	96 W
Parallel switching for enhanced performance	Yes	Yes	Yes
Numbers of parallel switchable units for enhanced performance	2	2	2
Efficiency			
Efficiency at V_{out} rated, $I_{out\ rated}$, approx.	85 %	88 %	89 %
Power loss at V_{out} rated, $I_{out\ rated}$, approx.	6 W	8 W	12 W
Active power loss during no-load operation maximum	2 W	1.8 W	2 W

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Technical specifications (continued)

Article number	6EP1331-1SH03	6EP1332-1SH43	6EP1332-1SH52
Product	LOGO!Power	LOGO!Power	LOGO!Power
Power supply, type	24 V/1.3 A	24 V/2.5 A	24 V/4 A
Closed-loop control			
Dynamic mains compensation ($V_{in\ rated}$ ±15 %), max.	0.2 %	0.2 %	0.2 %
Dynamic load smoothing (I_{out}: 10/90/10 %), U_{out} ± typ.	1 %	2 %	1.5 %
Load step setting time 10 to 90%, typ.	1 ms	1 ms	1 ms
Load step setting time 90 to 10%, typ.	1 ms	1 ms	1 ms
Protection and monitoring			
Output overvoltage protection	Yes, according to EN 60950-1	Yes, according to EN 60950-1	Yes, according to EN 60950-1
Current limitation, typ.	1.7 A	3.3 A	5.2 A
Property of the output Short-circuit proof	Yes	Yes	Yes
Short-circuit protection	Constant current characteristic	Constant current characteristic	Constant current characteristic
Enduring short circuit current RMS value			
• maximum	2.4 A	4.8 A	7.9 A
Overload/short-circuit indicator	-	-	-
Safety			
Primary/secondary isolation	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
Protection class	Class II (without protective conductor)	Class II (without protective conductor)	Class II (without protective conductor)
CE mark	Yes	Yes	Yes
UL/CSA approval	Yes	Yes	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4	ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2007) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	No	No	No
Certificate of suitability NEC Class 2	Yes	Yes	No
FM approval	Class I, Div. 2, Group ABCD, T4	Class I, Div. 2, Group ABCD, T4	Class I, Div. 2, Group ABCD, T4
CB approval	Yes	Yes	Yes
Marine approval	GL, ABS, BV, DNV, LRS	GL, ABS, BV, DNV, LRS	GL, ABS, BV, DNV, LRS
Degree of protection (EN 60529)	IP20	IP20	IP20
EMC			
Emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
Supply harmonics limitation	not applicable	not applicable	EN 61000-3-2
Noise immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
Operating data			
Ambient temperature			
• during operation	-20 ... +70 °C	-20 ... +70 °C	-20 ... +70 °C
- Note	with natural convection	with natural convection	with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation	Climate class 3K3, no condensation	Climate class 3K3, no condensation

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Ordering data Article No. Article No. (continued)

Article number	6EP1331-1SH03	6EP1332-1SH43	6EP1332-1SH52
Product	LOGO!Power	LOGO!Power	LOGO!Power
Power supply, type	24 V/1.3 A	24 V/2.5 A	24 V/4 A
Mechanics			
Connection technology	screw-type terminals	screw-type terminals	screw-type terminals
Connections			
• Supply input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded	L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded	L, N: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
• Auxiliary	-	-	-
Width of the enclosure	54 mm	72 mm	90 mm
Height of the enclosure	90 mm	90 mm	90 mm
Depth of the enclosure	52.6 mm	52.6 mm	52.6 mm
Weight, approx.	0.17 kg	0.25 kg	0.34 kg
Product property of the enclosure housing for side-by-side mounting	Yes	Yes	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
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)

Ordering data

	Article No.
LOGO!Power 1-phase, 5 V DC/3 A Stabilized power supply Input: 100 ... 240 V AC Output: 5 V DC/3 A	**6EP1311-1SH03**
LOGO!Power 1-phase, 5 V DC/6.3 A Stabilized power supply Input: 100 ... 240 V AC Output: 5 V DC/6.3 A	**6EP1311-1SH13**
LOGO!Power 1-phase, 12 V DC/1.9 A Stabilized power supply Input: 100 ... 240 V AC Output: 12 V DC/1.9 A	**6EP1321-1SH03**
LOGO!Power 1-phase, 12 V DC/4.5 A Stabilized power supply Input: 100 ... 240 V AC Output: 12 V DC/4.5 A	**6EP1322-1SH03**
LOGO!Power 1-phase, 15 V DC/1.9 A Stabilized power supply Input: 100 ... 240 V AC Output: 15 V DC/1.9 A	**6EP1351-1SH03**
LOGO!Power 1-phase, 15 V DC/4 A Stabilized power supply Input: 100 ... 240 V AC Output: 15 V DC/4 A	**6EP1352-1SH03**
LOGO!Power 1-phase, 24 V DC/1.3 A Stabilized power supply Input: 100 ... 240 V AC Output: 24 V DC/1.3 A	**6EP1331-1SH03**
LOGO!Power 1-phase, 24 V DC/2.5 A Stabilized power supply Input: 100 ... 240 V AC Output: 24 V DC/2.5 A	**6EP1332-1SH43**
LOGO!Power 1-phase, 24 V DC/4 A Stabilized power supply Input: 100 ... 240 V AC Output: 24 V DC/4 A	**6EP1332-1SH52**

More information

In addition to various power supply product lines, the perfectly coordinated complete SITOP range offers a unique range of add-on modules with which the 24 V power supply can be additionally protected against interference on the primary and secondary side – right up to all-round protection:

- Redundancy module for setting up a redundant power supply
- Uninterruptible 24 V power supplies with batteries or maintenance-free capacitors for continued operation in the event of power failure
- Selectivity modules for electronic protection of 24 V branches from overload and short-circuit

You can find more information in Catalog KT 10.1 and on the Internet at:

www.siemens.com/sitop

Select the appropriate power supply quickly and easily with the SITOP Selection Tool:

http://www.siemens.com/sitop-selection-tool

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Overview

Note:

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

SIPLUS LOGO!Power 1.3 A	
Article number	**6AG1331-1SH03-7AA0**
Article number based on	**6EP1331-1SH03**
Ambient temperature range	-25 °C to +70 °C
Conformal coating	Coating of the printed circuit boards and the electronic components
Technical data	The technical data of the standard product applies except for the ambient conditions.
Ambient conditions	
Relative humidity	100%, condensation/frost permissible. No commissioning if condensation present.
Biologically active substances, compliance with EN 60721-3-3	Class 3B2 mold spores, fungal spores (excluding fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Chemically active substances, compliance with EN 60721-3-3	Class 3C4 incl. salt spray in accordance with EN60068-2-52 (degree of severity 3). The supplied plug covers must remain in place over the unused interfaces during operation!
Mechanically active substances, compliance with EN 60721-3-3	Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation!
Air pressure (depending on the highest positive temperature range specified)	1080 ... 795 hPa (-1000 ... +2000 m) see ambient temperature range 795 ... 658 hPa (+2000 ... +3500 m) derating 10 K 658 ... 540 hPa (+3500 ... +5000 m) derating 20 K

For technical documentation on SIPLUS, see:

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

Ordering data

	Article No.
SIPLUS LOGO!Power 24 V 1.3 A Input 100 ... 240 V AC Output 24 V DC, 1.3 A	
Extended temperature range and exposure to media	**6AG1331-1SH03-7AA0**
SIPLUS LOGO!Power 24 V 2.5 A Input 100 ... 240 V AC Output 24 V DC, 2.5 A	
Extended temperature range and exposure to media	**6AG1332-1SH43-7AA0**
SIPLUS LOGO!Power 24 V 4 A Input 100 ... 240 V AC Output 24 V DC, 4 A	
Extended temperature range and exposure to media	**6AG1332-1SH52-7AA0**

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Overview

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

Technical specifications

Article number	**6ED1057-4CA00-0AA0**	**6ED1057-4EA00-0AA0**
	LOGO! CONTACT MOD., DC 24V, 3NO/1NC	LOGO! CONTACT MOD., AC 230V, 3NO/1NC
Product type designation		
Weights		
Weight, approx.	160 g	160 g

Ordering data

	Article No.
LOGO!Contact	
Switching module for direct switching of resistive loads up to 20 A and motors up to 4 kW	
Switching voltage 24 V	**6ED1057-4CA00-0AA0**
Switching voltage 230 V	**6ED1057-4EA00-0AA0**

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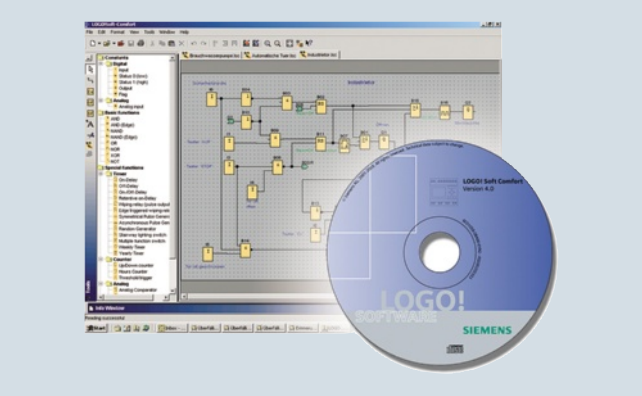
Overview



- 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 due to manifold 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

	Article No.
LOGO!Soft Comfort V8 for programming on the PC in LAD/FBD; executes on Windows 8, 7, XP, Linux and Mac OSX; on DVD	**6ED1058-0BA08-0YA1**
LOGO!Soft Comfort V8 Upgrade Upgrade from V1.0 to V8.0	**6ED1058-0CA08-0YE1**

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SIPLUS LOGO! PROM

Overview

LOGO! PROM is the programming device for easy reproduction of up to 8 LOGO! program modules. Copying is performed from a master module or via the PC program LOGO! Soft Comfort.

LOGO! PROM supports yellow and red program modules. Only yellow modules can be used as master modules, because red modules cannot be copied due to the know-how protection implemented.

A multi-colored LED on each module slot provides detailed information about the status of the respective program module and the copying procedure.

Ordering data	Article No.
LOGO! PROM	
Programming device used to simultaneously reproduce program module contents on up to 8 program modules	**6AG1057-1AA01-0BA6**

LOGO! mounting kits

Overview

LOGO! and SIPLUS LOGO! are designed for quick and easy mounting on standard 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 width units	**6AG1057-1AA00-0AA0**
Width 4 width units, with keys	**6AG1057-1AA00-0AA3**
Width 8 width units	**6AG1057-1AA00-0AA1**
Width 8 width units, with keys	**6AG1057-1AA00-0AA2**

SIPLUS upmiters

Overview

The SIPLUS upmiter upstream device ensures reliable operation of SIPLUS devices connected to the batteries of internal combustion engines. SIPLUS upmiter provides the devices with a constant voltage supply.

Ordering data	Article No.
SIPLUS upmiter upstream device	
for reliable operation when connected to the batteries of combustion engines	
Output current 1.25 A (LOGO! style)	**6AG1053-1AA00-2AA0**
Output current 4 A (S7-300 style)	**6AG1305-1AA00-2AA0**