

## LOGO! Logic module



2/2

2/2

2/5

2/8

2/9

### **LOGO! Modular**

SIPLUS LOGO! Modular basic versions

SIPLUS LOGO! Modular Pure versions

LOGO! Modular  
analog expansion modules

SIPLUS LOGO! Modular  
expansion modules

### *Brochures*

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

<http://www.siemens.com/simatic/printmaterial>

# LOGO! Logic module

## LOGO! Modular

### SIPLUS LOGO! Modular basic versions

#### Overview

2



- 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)

For further technical documentation on SIPLUS, see:

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

Environmental conditions	SIPLUS extreme		
Ambient temperature range	-25 to +60/+70 °C <sup>1)</sup>		
Relative humidity	100% Dewing, condensation and icing permissible		
Contaminant concentration	EN60721-3-3 3C4 and ISA S71.04 G1, G2, G3, GX		
		Constant load	Limit value <sup>2)</sup>
	SO <sub>2</sub>	4.8 ppm	17.8 ppm
	H <sub>2</sub> S	9.9 ppm	49.7 ppm
	Cl	0.2 ppm	1.0 ppm
	HCl	0.66 ppm	3.3 ppm
	HF	0.12 ppm	2.4 ppm
	NH <sub>3</sub>	49 ppm	247 ppm
	O <sub>3</sub>	0.1 ppm	1.0 ppm
	NO <sub>x</sub>	5.2 ppm	10.4 ppm
	At RH < 75%, condensation permitted		
Saline fog	Saline fog test (EN 60068-2-52)		
Mechanically active substances	EN60721-3-3 3S4		
	• Dust (suspended substance content)	4.0 mg/m <sup>2</sup> h	
	• Dust (precipitation)	40 mg/m <sup>2</sup> h incl. conductive sand/dust ("Arizona dust")	
Biologically active substances	EN60721-3-3 3B2 Mildew growth, Fungus, excluding fauna		

<sup>1)</sup> Depends on the product family

<sup>2)</sup> 30 min/day

	SIPLUS LOGO! 24	SIPLUS LOGO! 12/24RC	SIPLUS LOGO! 24RC	SIPLUS LOGO! 230RC
Order No.	6AG1 052-1CC00-2BA6	6AG1 052-1MD00-2BA6	6AG1 052-1HB00-2BA6	6AG1 052-1FB00-2BA6
Order No. based on	6ED1 052-1CC00-0BA6	6ED1 052-1MD00-0BA6	6ED1 052-1HB00-0BA6	6ED1 052-1FB00-0BA6
Ambient temperature range	- 25 to + 70 °C - 25 to + 55 °C (for applications with cUL approval), condensation permissible			
Environmental conditions	Resistant in accordance with EN60721 to chemically (-3C4), mechanically (-3S4) and biologically (-3B2) active substances and compliant with ISA S71.04 G1, G2, G3, GX1). For further information, refer to Environmental conditions of SIPLUS extreme (on pg. 4/2) or go to <a href="http://www.siemens.com/siplus-extreme">www.siemens.com/siplus-extreme</a>			
Approvals	CE, cUL			
Technical specifications	The technical data of the standard product apply with the exception of the environmental conditions.			

#### Technical specifications

	6AG1 052-1CC00-2BA6	6AG1 052-1MD00-2BA6	6AG1 052-1HB00-2BA6	6AG1 052-1FB00-2BA6
<b>Supply voltages</b>				
Rated value				
• 12 V DC		Yes		
• 24 V DC	Yes	Yes	Yes	
• 115 V DC				Yes
• 230 V DC				Yes

#### Technical specifications (continued)

	6AG1 052-1CC00-2BA6	6AG1 052-1MD00-2BA6	6AG1 052-1HB00-2BA6	6AG1 052-1FB00-2BA6
<b>Rated value (continued)</b>				
• 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
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
• permissible range, lower limit (AC)			20.4 V	85 V
• permissible range, upper limit (AC)			26.4 V	265 V
<b>Time of day</b>				
Time switching clocks				
• Power reserve		80 h	80 h	80 h
<b>Digital inputs</b>				
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
<b>Digital outputs</b>				
Number of digital outputs	4; Transistor	4; Relay	4; Relay	4; Relay
Short-circuit protection	Yes; electrical (1 A)	No; external fusing necessary	No; external fusing necessary	No; external fusing necessary
<b>Relay outputs</b>				
Switching capacity of contacts				
• with inductive load, max.		3 A	3 A	3 A
• with resistive load, max.	0.3 A	10 A	10 A	10 A
<b>EMC</b>				
• Emission of radio interference acc. to EN 55 011 (limit class B)	Yes	Yes	Yes	Yes
<b>Degree of protection</b>				
IP20	Yes	Yes	Yes	Yes
<b>Standards, approvals, certificates</b>				
CSA approval	Yes	Yes	Yes	Yes
developed according to IEC1131-3	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
<b>Dimensions and weight</b>				
Dimensions and weight				
• 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
• 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

# LOGO! Logic module

## LOGO! Modular

### SIPLUS LOGO! Modular basic versions

2

Ordering data	Order No.	Order No.
<b>SIPLUS LOGO! 24</b> (extended temperature range and medial exposure)  24 V DC power supply, 8x 24 V DC digital inputs, of which 4 can be used in analog mode (0 ... 10 V), 4x 24 V DC digital outputs, 0.3 A; 200 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-1CC00-2BA6</b>	<b>LOGO! memory card</b> Program module for copying, with know-how protection  <b>LOGO! battery card</b> Battery module for backing up the integral real-time clock (not LOGO! 24)  <b>LOGO! memory/battery card</b> Combined program and battery module, with know-how protection and for backing up the integral real-time clock (not LOGO! 24)  <b>LOGO! PROM</b> Programming device for modules  <b>LOGO!Soft Comfort V6.0</b> A For programming on the PC in LAD/FBD; executes on Windows 98 SE and higher, Linux, MAC OSX; on CD-ROM  <b>LOGO!Soft Comfort V6.0 Upgrade</b> A Upgrade from V1.0 to V6.0  <b>LOGO! PC cable</b> For program transfer between LOGO! and the PC  <b>LOGO! USB PC cable</b> B For transferring the program between LOGO! and PC, including driver on CD-ROM  <b>LOGO! modem cable</b> Adapter cable for analog modem communication  <b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul>
<b>SIPLUS LOGO! 12/24RC</b> (extended temperature range and medial exposure)  12/24 V DC power supply, 8x 12/24 V DC digital inputs, of which 4 can be used in analog mode (0 ... 10 V), 4x 10 A relay outputs, integral time switch; 200 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-1MD00-2BA6</b>	<b>LOGO!Soft Comfort V6.0 Upgrade</b> A Upgrade from V1.0 to V6.0  <b>LOGO! PC cable</b> For program transfer between LOGO! and the PC  <b>LOGO! USB PC cable</b> B For transferring the program between LOGO! and PC, including driver on CD-ROM  <b>LOGO! modem cable</b> Adapter cable for analog modem communication  <b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul>
<b>SIPLUS LOGO! 24RC</b> (extended temperature range and medial exposure)  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 inter-linked, modular expansion capability	<b>6AG1 052-1HB00-2BA6</b>	<b>LOGO! modem cable</b> Adapter cable for analog modem communication  <b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul>
<b>SIPLUS LOGO! 230RC</b> (extended temperature range and medial exposure)  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 inter-linked, modular expansion capability	<b>6AG1 052-1FB00-2BA6</b>	<b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul>
<b>Accessories</b>  <b>SIPLUS LOGO! TD text display</b> (extended temperature range -10 ... +60 °C and medial load)  4-line text display, can be connected to all LOGO! 0BA6 Basic and Pure versions, including connecting cable	<b>6AG1 055-4MH00-2BA0</b>	<b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul>
<b>LOGO! manual</b>  German English French Spanish Italian Chinese	<b>6ED1 050-1AA00-0AE7</b> <b>6ED1 050-1AA00-0BE7</b> <b>6ED1 050-1AA00-0CE7</b> <b>6ED1 050-1AA00-0DE7</b> <b>6ED1 050-1AA00-0EE7</b> <b>6ED1 050-1AA00-0KE7</b>	<b>SIPLUS upmiter power supply unit</b> for dependable operation of SIPLUS devices supplied by the battery of internal combustion engines  <b>6AG1 053-1AA00-2AA0</b>

A: Subject to export regulations: AL: N and ECCN: EAR99S

B: Subject to export regulations: AL: N and ECCN: EAR99T

#### 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)

For further technical documentation on SIPLUS, see:

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

	SIPLUS LOGO! 24o	SIPLUS LOGO! 12/24RCo	SIPLUS LOGO! 24RCo	SIPLUS LOGO! 230RCo
<b>Order No.</b>	<b>6AG1 052-2CC00-2BA6</b>	<b>6AG1 052-2MD00-2BA6</b>	<b>6AG1 052-2HB00-2BA6</b>	<b>6AG1 052-2FB00-2BA6</b>
<b>Order No. based on</b>	<b>6ED1 052-2CC00-0BA6</b>	<b>6ED1 052-2MD00-0BA6</b>	<b>6ED1 052-2HB00-0BA6</b>	<b>6ED1 052-2FB00-0BA6</b>
Ambient temperature range	- 25 to + 70 °C - 25 to + 55 °C (for applications with cUL approval), condensation permissible			
Environmental conditions	Resistant in accordance with EN60721 to chemically (-3C4), mechanically (-3S4) and biologically (-3B2) active substances and compliant with ISA S71.04 G1, G2, G3, GX1). For further information, refer to Environmental conditions of SIPLUS extreme (on pg. 4/2) or go to <a href="http://www.siemens.com/siplus-extreme">www.siemens.com/siplus-extreme</a>			
Approvals	CE, cUL			
Technical specifications	The technical data of the standard product apply with the exception of the environmental conditions.			

#### Technical specifications

	6AG1 052-2CC00-2BA6	6AG1 052-2MD00-2BA6	6AG1 052-2HB00-2BA6	6AG1 052-2FB00-2BA6
<b>Supply voltages</b>				
Rated value				
• 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
• 24 V AC			Yes	
• 115 V AC				Yes
• 230 V AC				Yes
• permissible range, lower limit (AC)			20.4 V	85 V
• permissible range, upper limit (AC)			26.4 V	265 V

# LOGO! Logic module

## LOGO! Modular

### SIPLUS LOGO! Modular Pure versions

#### Technical specifications (continued)

	6AG1 052-2CC00-2BA6	6AG1 052-2MD00-2BA6	6AG1 052-2HB00-2BA6	6AG1 052-2FB00-2BA6
<b>Time of day</b>				
Time switching clocks				
• Number		8	8	8
• Power reserve		80 h	80 h	80 h
<b>Digital inputs</b>				
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
<b>Digital outputs</b>				
Number of digital outputs	4; Transistor	4; Relay	4; Relay	4; Relay
Short-circuit protection	Yes; electrical (1 A)	No; external fusing necessary	No; external fusing necessary	No; external fusing necessary
<b>Relay outputs</b>				
Switching capacity of contacts				
• with inductive load, max.		3 A	3 A	3 A
• with resistive load, max.	0.3 A	10 A	10 A	10 A
<b>EMC</b>				
• Emission of radio interference acc. to EN 55 011 (limit class B)		Yes	Yes	Yes
<b>Degree of protection</b>				
IP20	Yes	Yes	Yes	Yes
<b>Standards, approvals, certificates</b>				
CSA approval	Yes	Yes	Yes	Yes
developed according to IEC1131-3	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes	Yes
Marine approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
<b>Dimensions and weight</b>				
Dimensions and weight				
• 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
• 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	Order No.	Order No.
<b>SIPLUS LOGO! 24o</b> (extended temperature range and medial exposure)  24 V DC power supply, 8x digital inputs 24 V DC, of which 4 can be used in analog mode (0 ... 10 V), 4x digital outputs 24 V DC, 0.3 A; without display and keyboard; 200 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-2CC00-2BA6</b>	<b>LOGO! manual</b> German <b>6ED1 050-1AA00-0AE7</b> English <b>6ED1 050-1AA00-0BE7</b> French <b>6ED1 050-1AA00-0CE7</b> Spanish <b>6ED1 050-1AA00-0DE7</b> Italian <b>6ED1 050-1AA00-0EE7</b> Chinese <b>6ED1 050-1AA00-0KE7</b> <b>LOGO! memory card</b> <b>6ED1 056-1DA00-0BA0</b> Program module for copying, with know-how protection <b>LOGO! battery card</b> <b>6ED1 056-6XA00-0BA0</b> Battery module for backing up the integral real-time clock (not LOGO! 24) <b>LOGO! memory/battery card</b> <b>6ED1 056-7DA00-0BA0</b> Combined program and battery module, with know-how protection and for backing up the integral real-time clock (not LOGO! 24) <b>LOGO! PROM</b> <b>6AG1 057-1AA01-0BA6</b> Programming device for modules <b>LOGO!Soft Comfort V6.0</b> A <b>6ED1 058-0BA02-0YA0</b> For programming on the PC in LAD/FBD; executes on Windows 98 SE and higher, Linux, MAC OSX; on CD-ROM <b>LOGO!Soft Comfort V6.0 Upgrade</b> A <b>6ED1 058-0CA02-0YE0</b> Upgrade from V1.0 to V6.0 <b>LOGO! PC cable</b> <b>6ED1 057-1AA00-0BA0</b> For program transfer between LOGO! and the PC <b>LOGO! USB PC cable</b> B <b>6ED1 057-1AA01-0BA0</b> For transferring the program between LOGO! and PC, including driver on CD-ROM <b>LOGO! modem cable</b> <b>6ED1 057-1CA00-0BA0</b> Adapter cable for analog modem communication <b>LOGO! Mounting set</b> For use in a front panel with Plexiglas pane and gasket <ul style="list-style-type: none"> <li>• Mounting set 4 WM <b>6AG1 057-1AA00-0AA0</b></li> <li>• Mounting set 4 WM with keys <b>6AG1 057-1AA00-0AA3</b></li> <li>• Mounting set 8 WM <b>6AG1 057-1AA00-0AA1</b></li> <li>• Mounting set 8 WM with keys <b>6AG1 057-1AA00-0AA2</b></li> </ul> <b>SIPLUS upmiter power supply unit</b> <b>6AG1 053-1AA00-2AA0</b> for dependable operation of SIPLUS devices supplied by the battery of internal combustion engines
<b>SIPLUS LOGO! 12/24RCo</b> (extended temperature range and medial exposure)  12/24 V DC power supply, 8x digital inputs 12/24 V DC, of which 4 can be used in analog mode (0 ... 10 V), 4x relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-2MD00-2BA6</b>	
<b>SIPLUS LOGO! 24RCo</b> (extended temperature range and medial exposure)  24 V AC/DC power supply, 8 digital inputs 24 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 130 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-2HB00-2BA6</b>	
<b>SIPLUS LOGO! 230RCo</b> (extended temperature range and medial exposure)  115/230 V AC/DC power supply, 8x digital inputs 115/230 V AC/DC, 4 relay outputs 10 A, integral time switch; without display and keyboard; 200 function blocks can be inter-linked, modular expansion capability	<b>6AG1 052-2FB00-2BA6</b>	
<b>Accessories</b> <b>SIPLUS LOGO! TD text display</b> (extended temperature range -10 ... +60 °C and medial load)  4-line text display, can be connected to all LOGO! 0BA6 Basic and Pure versions, including connecting cable	<b>6AG1 055-4MH00-2BA0</b>	

A: Subject to export regulations: AL: N and ECCN: EAR99S

B: Subject to export regulations: AL: N and ECCN: EAR99T

# LOGO! Logic module

## LOGO! Modular

### LOGO! Modular analog expansion modules

#### Overview



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

#### Technical specifications

6ED1 055-1MM00-0BA1	
<b>Supply voltages</b>	
Rated value	
• 12 V DC	No
• 24 V DC	Yes
<b>Analog outputs</b>	
Number of analog outputs	2
Output ranges, voltage	
• 0 to 10 V	Yes
<b>EMC</b>	
• Emission of radio interference to EN 55 011 (limit class B)	Yes
<b>Environmental requirements</b>	
Operating temperature	
• min.	0 °C
• max.	55 °C
<b>Degree of protection</b>	
IP 20	Yes
<b>Standards, approvals, certificates</b>	
CSA approval	Yes
Developed to IEC1131	Yes
FM approval	Yes
to VDE 0631	Yes
Marine approval	Yes
UL Approval	Yes
<b>Dimensions and weight</b>	
Dimensions	
• Mounting	on 35 mm DIN rail, 2 spacing units wide
• Width	36 mm
• Height	90 mm
• Depth	55 mm

#### Ordering data

#### Order No.

**LOGO! AM2 AQ** C **6ED1 055-1MM00-0BA1**

Supply voltage 24 V DC,  
2 analog outputs, 0 ... 10 V,  
0/4 ... 20 mA

#### Accessories

##### LOGO! Manual

German **6ED1 050-1AA00-0AE7**  
 English **6ED1 050-1AA00-0BE7**  
 French **6ED1 050-1AA00-0CE7**  
 Spanish **6ED1 050-1AA00-0DE7**  
 Italian **6ED1 050-1AA00-0EE7**  
 Chinese **6ED1 050-1AA00-0KE7**

**LOGO! memory card** **6ED1 056-5CA00-0BA0**

for copying,  
with know-how protection

**LOGO!Soft Comfort V6.0** A **6ED1 058-0BA02-0YA0**

For programming on the PC in  
LAD/FBD; executes on  
Windows 98 SE and higher, Linux,  
MAC OSX; on CD-ROM

**LOGO!Soft Comfort V6.0  
upgrade** A **6ED1 058-0CA02-0YE0**

Upgrade from V1.0 to V6.0

**LOGO! PC cable** **6ED1 057-1AA00-0BA0**

For program transfer between  
LOGO! and the PC

A: Subject to export regulations: AL: N and ECCN: EAR99S

C: Subject to export regulations: AL: N and ECCN: EAR99H



#### Overview



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

For further technical documentation on SIPLUS, see:

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

2

	SIPLUS LOGO! DM8 24	SIPLUS LOGO! AM2 AQ	SIPLUS LOGO! DM16 24R
<b>Order No.</b>	<b>6AG1 055-1PB00-2BY0</b>	<b>6AG1 055-1MM00-2BY1</b>	<b>6AG1 055-1NB10-2BA0</b>
<b>Order No. based on</b>	<b>6ED1 055-1CB00-0BA0</b>	<b>6ED1 055-1MM00-0BA1</b>	<b>6ED1 055-1NB10-0BA0</b>
Ambient temperature range	- 25 to + 70 °C - 25 to + 55 °C (for applications with cUL approval), condensation permissible		
Environmental conditions	Resistant in accordance with EN60721 to chemically (-3C4), mechanically (-3S4) and biologically (-3B2) active substances and compliant with ISA S71.04 G1, G2, G3, GX1. For further information, refer to Environmental conditions of SIPLUS extreme (on pg. 2/2) or go to <a href="http://www.siemens.com/siplus-extreme">www.siemens.com/siplus-extreme</a>		
Approvals	CE, cUL	CE, cUL (available soon)	
Technical specifications	The technical data of the standard product apply with the exception of the environmental conditions.		

#### Technical specifications

	6AG1 055-1PB00-2BY0	6AG1 055-1NB10-2BA0	6AG1 055-1MM00-2BY1
<b>Supply voltages</b>			
Rated value			
• 12 V DC	Yes		No
• 24 V DC	Yes	Yes	Yes
• permissible range, lower limit (DC)	10.8 V	20.4 V	
• permissible range, upper limit (DC)	28.8 V	28.8 V	
<b>Digital inputs</b>			
Number of digital inputs	4	8	
Input voltage			
• for signal "0"		< 5 V DC	
• for signal "1"		> 12 V DC	
Input current			
• for signal "0", max. (permissible quiescent current)		1 mA	
• for signal "1", typ.		2 mA	
Input delay (for rated value of input voltage)			
• for standard inputs			
- at "0" to "1", max.		1.5 ms	
- at "1" to "0", max.		1.5 ms	

# LOGO! Logic module

## LOGO! Modular

### SIPLUS LOGO! Modular expansion modules

#### Technical specifications (continued)

	6AG1 055-1PB00-2BY0	6AG1 055-1NB10-2BA0	6AG1 055-1MM00-2BY1
<b>Digital outputs</b>			
Number of digital outputs	4	8; Relay	
Short-circuit protection	Yes; electrical (1 A)	No; external fusing necessary	
Lamp load, max.		1 000 W; 500 W at 115 V AC	
Controlling a digital input		Yes	
Parallel switching of 2 outputs			
• for increased power		No	
Switching frequency			
• with resistive load, max.		2 Hz	
• with inductive load, max.		0,5 Hz	
• mechanical, max.		10 Hz	
<b>Relay outputs</b>			
Switching capacity of contacts			
• with inductive load, max.		3 A	
• with resistive load, max.		5 A	
• Thermal continuous current, max.	0,3 A		
<b>Analog outputs</b>			
Number of analog outputs			2
Output ranges, voltage			
• 0 to 10 V			Yes
<b>EMC</b>			
• Emission of radio interference acc. to EN 55 011 (limit class B)	Yes	Yes	Yes
<b>Degree of protection</b>			
IP20	Yes	Yes	Yes
<b>Standards, approvals, certificates</b>			
CSA approval	Yes	Yes	Yes
developed according to IEC1131-3	Yes	Yes	Yes
FM approval	Yes	Yes	Yes
according to VDE 0631	Yes	Yes	Yes
Marine approval	Yes	Yes	Yes
UL approval	Yes	Yes	Yes
<b>Dimensions and weight</b>			
Dimensions and weight			
• Mounting	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 4 spacing units wide	on 35 mm DIN rail, 2 spacing units wide
• Width	36 mm; 2 DU	72 mm; 4 DU	36 mm
• Height	90 mm	90 mm	90 mm
• Depth	55 mm	53 mm	55 mm

Ordering data	Order No.	Order No.
<b>SIPLUS LOGO! DM8 24</b> (extended temperature range and medial exposure)  Supply voltage 24 V DC, 4x digital inputs 124 V DC, 4x digital outputs 24 V DC, 0.3 A, temperature range -40 ... +70 °C	<b>6AG1 055-1PB00-2BY0</b>	<b>Accessories</b>  <b>LOGO! manual</b> German <b>6ED1 050-1AA00-0AE7</b> English <b>6ED1 050-1AA00-0BE7</b> French <b>6ED1 050-1AA00-0CE7</b> Spanish <b>6ED1 050-1AA00-0DE7</b> Italian <b>6ED1 050-1AA00-0EE7</b> Chinese <b>6ED1 050-1AA00-0KE7</b>  <b>LOGO! memory card</b> for copying, with know-how protection <b>6ED1 056-5CA00-0BA0</b>
<b>SIPLUS LOGO! DM16 24R</b> (extended temperature range and medial exposure)  Supply voltage 24 V DC, 8x digital inputs 24 V DC, 8x relay outputs 5 A, temperature range -25 ... +70 °C	<b>6AG1 055-1NB10-2BA0</b>	<b>LOGO!Soft Comfort V6.0</b> A <b>6ED1 058-0BA02-0YA0</b> For programming on the PC in LAD/FBD; executes on Windows 98 SE and higher, Linux, MAC OSX; on CD-ROM
<b>SIPLUS LOGO! AM2 AQ</b> (extended temperature range and medial exposure)  24 V DC power supply, 2x analog inputs 0 ... 10 V, 0/4 ... 20 mA, 10-bit resolution, temperature range -40 ... +70 °C	<b>6AG1 055-1MM00-2BY1</b>	<b>LOGO!Soft Comfort V6.0</b> A <b>6ED1 058-0CA02-0YE0</b> <b>upgrade</b> Upgrade from V1.0 to V6.0
		<b>LOGO! PC cable</b> <b>6ED1 057-1AA00-0BA0</b> For program transfer between LOGO! and the PC

A: Subject to export regulations: AL: N and ECCN: EAR99S