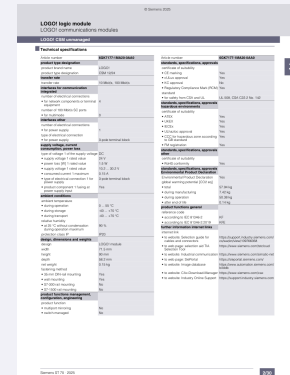


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6GK7177-1MA20-0AA0

LOGO! CSM 12/24 compact Ethernet switch



PRODUCT	6GK7177-1MA20-0AA0
FAMILY	LOGO! CSM unmanaged
FUNCTION	LOGO! CSM 12/24 compact Ethernet switch
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens Industrial Ethernet 09/2019; ST 70 2025, 2/29-2/30. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Ethernet connections	4 RJ45 ports, including one front-facing diagnostic access port
Supported transfer rates	10 and 100 Mbit/s
DC supply range	10.2 to 30.2 V DC
Maximum current consumption	0.15 A
Rated power loss	1.5 W
Power connection	One 3-pole terminal block
Supply input protection	Fuse at power supply input

02 MOUNTING AND CONNECTION

- Before work, verify the complete article number and identify the 12/24 V DC variant, not the CSM 230 version.
- Use the documented 35 mm DIN-rail or wall-mounting arrangement; S7-300 and S7-1500 rail mounting are not specified.
- Connect the identified 3-pole supply terminal within the 10.2 to 30.2 V DC range; verify polarity on the device marking.
- Allocate the four RJ45 ports to the intended 10/100 Mbit/s nodes and retain access to the front diagnostic connection.
- Maintain 0 to 55 deg C ambient conditions, non-condensing humidity and suitable protection for the IP20 module.

OFFICIAL INSTALLATION REFERENCE

© Siemens 2025

LOGO! logic module LOGO! communications modules

LOGO! CSM unmanaged

Technical specifications

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

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

2

Siemens ST 70 - 2025

2/30

Official manufacturer reference reproduced from Siemens Industrial Ethernet 09/2019; ST 70 2025, 2/29-2/30. Use the current source document and all referenced drawings and notes for installation.

04

CABLE ROUTING AND CONNECTION

- Use the documented 35 mm DIN-rail or wall-mounting arrangement; S7-300 and S7-1500 rail mounting are not specified.
- Connect the identified 3-pole supply terminal within the 10.2 to 30.2 V DC range; verify polarity on the device marking.
- Allocate the four RJ45 ports to the intended 10/100 Mbit/s nodes and retain access to the front diagnostic connection.
- Maintain 0 to 55 deg C ambient conditions, non-condensing humidity and suitable protection for the IP20 module.
- Check diagnostic LEDs and actual communication between connected nodes; this unmanaged unit has no multiport mirroring.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Check diagnostic LEDs and successful communication between the intended Ethernet endpoints.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens Industrial Ethernet 09/2019; ST 70 2025, 2/29-2/30
Product record	6GK7177-1MA20-0AA0
Manufacturer	Siemens
Support	INFO@AMIKON.CN