## **SIEMENS**

## Data sheet

6AV7674-1LA32-0AA0

Extension unit 12" PROFINET for mounting on all fully IP65-enclosed 16:9 HMI/IPC devices. For the flexible installation of operator controls, 6 mounting positions, 6 operator controls can be equipped; Connection via PROFINET (without equipment)



General information	
Product type designation	Extension Unit 12" PROFINET
Control elements	
With parameterizable keys	Yes
Connection type	
<ul> <li>Connection type of the safety-related contacts (emergency stop)</li> </ul>	8-pin connector
Installation type/mounting	
Mounting	For mounting on a 16:9 HMI / IPC PRO device (lower part)
Mounting type	Screwed joint
Rack mounting	No
Front mounting	No
Number of slots for command devices and signaling	6
units	
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V

Input current   Current consumption (rated value)   150 mA; without load	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value)  Power  Active power input, typ.  Active power input, typ.  Active power input, typ.  Interfaces  Number of industrial Ethemet interfaces  2; For the construction of lines and rings without external switch  Number of PROFINET interfaces  Protocols  PROFINET  Yes  Redundancy mode  Media redundancy  — MRP  Yes  Test commissioning functions  Key and signal lamp test  Pessional signal signal signal lamp test  Pessional signal lamp test  Pession	Input current	
Active power input, typ.  Interfaces  Number of Industrial Ethernet interfaces  Number of PROFINET interfaces  Protocols  PROFINET  Redundancy mode  Media redundancy  — MRP  Yes  Test commissioning functions  Key and signal lamp test  Pencioud)  NEMA (front)  • Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  Ves  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient conditions  Ambient conditions  Ambient memperature during storage/transportation  • min.  • max.  Ambient condition partial relating to sea level  • Installation altitude above sea level, max.  Solates  Cables  Cables  Cables  Cables  Active power input, typ.  3 W; Additionally 0.1 W per control element with LED  3 W; For the construction of lines and rings without external switch  2; For the construction of lines and rings without external switch  4; For the construction of lines and rings without external switch  Yes  2; For the construction of lines and rings without external switch  Yes  2; Incl. switch  Yes  Ves  Ves  Ves  Automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Pers, auto	•	150 mA; without load
Active power input, typ.  Interfaces  Number of Industrial Ethernet interfaces  Number of PROFINET interfaces  Protocols  PROFINET  Redundancy mode  Media redundancy  — MRP  Yes  Test commissioning functions  Key and signal lamp test  Pencioud)  NEMA (front)  • Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  Ves  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient conditions  Ambient conditions  Ambient memperature during storage/transportation  • min.  • max.  Ambient condition partial relating to sea level  • Installation altitude above sea level, max.  Solates  Cables  Cables  Cables  Cables  Active power input, typ.  3 W; Additionally 0.1 W per control element with LED  3 W; For the construction of lines and rings without external switch  2; For the construction of lines and rings without external switch  4; For the construction of lines and rings without external switch  Yes  2; For the construction of lines and rings without external switch  Yes  2; Incl. switch  Yes  Ves  Ves  Ves  Automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Pers, automatically when switching on  Pers, automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Ves; automatically when switching on  Pers, auto	D.	
Interfaces  Number of industrial Ethernet interfaces  Number of PROFINET interfaces  Profocols  PROFINET Yes  Redundancy mode  Media redundancy — MRP Yes  Test commissioning functions  Key and signal lamp test Yes; automatically when switching on  Degree and class of protection  IP65 (all-round) Yes  NEMA (front)  • Enclosure Type 4x at the front  Ves  CE mark Yes  UL approval  cULus Yes  RCM (formerly C-TICK) Yes  Suitable for safety functions  Ambient temperature during operation  • min. • max.  Ambient temperature during storage/transportation • min. • max.  Ambient temperature during storage/transportation • min. • max.  All-tound  O °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation  Cables		3 W. Additionally 0.1 W per central element with LED
Number of industrial Ethernet interfaces  Number of PROFINET interfaces  PROFINET  Protocols  PROFINET  Protocols  PROFINET  Media redundancy  Mesia colorially when switching on  Media redundancy  Mesia colorially when switching on  Media redundancy  Mesia colorially when switching on  Mesia coloria	Active power input, typ.	3 W, Additionally 0.1 W per control element with LED
Number of PROFINET interfaces  Protocols  PROFINET  Redundancy mode  Media redundancy — MRP  Test commissioning functions  Key and signal lamp test  Pess (all-round)  NEMA (front)  Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  UL approval  CULus  PROM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient emperature during operation  In max.  Ambient temperature during storage/transportation  In min.  In max.  All titude during operation relating to sea level  In stallation altitude above sea level, max.  Relative humidity  Operation, max.  Ogeration  Ves  Relative humidity  Operation, max.  So occ and class of protection  Yes  Authority Area  Yes  Later Area  Yes  Yes  Later Area  Yes  Yes  Yes  Yes  Later Area  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	Interfaces	
PROFINET Redundancy mode Media redundancy — MRP Yes  Test commissioning functions Key and signal lamp test Ves; automatically when switching on  Degree and class of protection IP65 (all-round) Ves; All-round Ves; All-round  **NEMA (front) **Enclosure Type 4x at the front  Standards, approvals, certificates CE mark UL approval CULus Ves RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes Suitable for safety functions  Ambient conditions  Ambient conditions  Ambient temperature during operation **min.** 0 °C **max.** 50 °C  Ambient temperature during storage/transportation **min.** -20 °C **max.** 60 °C  Altitude during operation relating to sea level **Installation altitude above sea level, max.** 90 %; no condensation  Cables  Cables	Number of industrial Ethernet interfaces	2; For the construction of lines and rings without external switch
PROFINET  Redundancy mode  Media redundancy  — MRP  Yes  Test commissioning functions  Key and signal lamp test  Pegree and class of protection  IP65 (all-round)  NEMA (front)  • Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  cULus  Yes  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  Antient temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Relative humidity  • Operation, max.  Qables  Yes  2 Ves  Cables  Ore  Ore  Ore  Ore  Ore  Ore  Ore  O	Number of PROFINET interfaces	2; Incl. switch
PROFINET  Redundancy mode  Media redundancy  — MRP  Yes  Test commissioning functions  Key and signal lamp test  Pegree and class of protection  IP65 (all-round)  NEMA (front)  • Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  cULus  Yes  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  Antient temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Relative humidity  • Operation, max.  Qables  Yes  2 Ves  Cables  Ore  Ore  Ore  Ore  Ore  Ore  Ore  O	Protocols	
Media redundancy  — MRP  Test commissioning functions  Key and signal lamp test  Pegree and class of protection  IP65 (all-round)  NEMA (front)  • Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  UL approval  CULUS  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  • max.  Allitude during operation relating to sea level  • Installation altitude above sea level, max.  Pess  Pess  2 000 m  Relative humidity  • Operation, max.		Yes
Test commissioning functions  Key and signal lamp test  Pes; automatically when switching on  Degree and class of protection  IP65 (all-round)  NEMA (front)  Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  Yes  CULus  RCM (formerly C-TiCK)  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  max.  Ambient temperature during storage/transportation  min.  max.  60 °C  Altitude during operation relating to sea level  Installation altitude above sea level, max.  90 %; no condensation  Cables  Cables	Redundancy mode	
Test commissioning functions  Key and signal lamp test  Pegree and class of protection  IP65 (all-round)  • Enclosure Type 4x at the front  • Enclosure Type 4x at the front  Yes, All-round  Standards, approvals, certificates  CE mark  UL approval  ves  RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Power automatically when switching on  Yes; automatically when switching on  Yes  All-round  Yes  Ves  Lapproval  Yes  RCM (formerly C-TICK)  Yes  Captroval  Yes  O °C  Ambient temperature during operation  • min.  • 20 °C  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Relative humidity  • Operation, max.  90 %; no condensation  Cables		
Key and signal lamp test  Pes; automatically when switching on  Pegree and class of protection  IP65 (all-round)  NEMA (front)  Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  cULus  Yes  RCM (formerly C-TICK)  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  min.  max.  0°C  Ambient temperature during storage/transportation  min.  min.  min.  20°C  Ambient temperature during storage/transportation  min.  min.  10°C  10°C	— MRP	Yes
Key and signal lamp test  Pes; automatically when switching on  Pegree and class of protection  IP65 (all-round)  NEMA (front)  Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  cULus  Yes  RCM (formerly C-TICK)  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  min.  max.  0°C  Ambient temperature during storage/transportation  min.  min.  min.  20°C  Ambient temperature during storage/transportation  min.  min.  10°C  10°C		
Degree and class of protection  IP65 (all-round)  NEMA (front)  Enclosure Type 4x at the front  Yes; All-round  Standards, approvals, certificates  CE mark  UL approval  Yes  CULus  RCM (formerly C-TICK)  Yes  KC approval  Yes  Suitable for safety functions  Ambient conditions  Ambient emperature during operation  min.  min.  max.  50 °C  Ambient temperature during storage/transportation  min.  min.  min.  10 °C  100 °		
IP65 (all-round)   Yes	Key and signal lamp test	Yes; automatically when switching on
IP65 (all-round)   Yes	Degree and class of protection	
Enclosure Type 4x at the front  Standards, approvals, certificates  CE mark  Ves  UL approval  Ves  CULus  RCM (formerly C-TICK)  KC approval  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation      • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  90 %; no condensation  Cables  Cables		Yes
Standards, approvals, certificates  CE mark  UL approval  Yes  CULus  RCM (formerly C-TICK)  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Relative humidity  • Operation, max.  90 %; no condensation	NEMA (front)	
CE mark  UL approval  ves  cULus  Yes  RCM (formerly C-TICK)  KC approval  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  90 %; no condensation  Cables	<ul> <li>Enclosure Type 4x at the front</li> </ul>	Yes; All-round
CE mark  UL approval  ves  cULus  Yes  RCM (formerly C-TICK)  KC approval  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  90 %; no condensation  Cables	Standards, approvals, certificates	
CULus  RCM (formerly C-TICK)  Yes  KC approval  Yes; e.g. installation of emergency stop  Ambient conditions  Ambient temperature during operation  • min. • max.  • max.  Ambient temperature during storage/transportation  • min. • min. • min. • c20 °C  Ambient temperature during operation  • min. • min. • max.  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation		Yes
RCM (formerly C-TICK)  KC approval  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min. • max.  50 °C  Ambient temperature during storage/transportation  • min. • more conditions  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation	UL approval	Yes
Suitable for safety functions  Yes; e.g. installation of emergency stop  Ambient conditions  Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  Poperation, max.  90 %; no condensation	cULus	Yes
Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min. • max.  50 °C  Ambient temperature during storage/transportation  • min. • min. • min. • min. • max.  60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation	RCM (formerly C-TICK)	Yes
Ambient conditions  Ambient temperature during operation  • min. • max. 50 °C  Ambient temperature during storage/transportation  • min. • min. • max. 60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation	KC approval	Yes
Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  2 000 m  Relative humidity  • Operation, max.  90 %; no condensation	Suitable for safety functions	Yes; e.g. installation of emergency stop
Ambient temperature during operation  • min.  • max.  50 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  2 000 m  Relative humidity  • Operation, max.  90 %; no condensation	Ambient conditions	
<ul> <li>min.</li> <li>max.</li> <li>50 °C</li> </ul> Ambient temperature during storage/transportation <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> <li>2 000 m</li> </ul> Relative humidity <ul> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul> Cables		
<ul> <li>max.</li> <li>50 °C</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>2 000 m</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul>		0.°C
Ambient temperature during storage/transportation  • min.  • max.  60 °C  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  2 000 m  Relative humidity  • Operation, max.  90 %; no condensation		
<ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul>		30 C
<ul> <li>max.</li> <li>60 °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul>		30 °C
Altitude during operation relating to sea level  Installation altitude above sea level, max.  Relative humidity  Operation, max.  90 %; no condensation  Cables		
<ul> <li>Installation altitude above sea level, max.</li> <li>Relative humidity</li> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul>		60 °C
Relative humidity  • Operation, max.  90 %; no condensation  Cables		0.000
Operation, max.     90 %; no condensation  Cables		2 000 m
Cables		
	<ul> <li>Operation, max.</li> </ul>	90 %; no condensation
	Cables	
		30 m; Max. for emergency stop

Mechanics/material	
Material	
<ul> <li>Aluminum</li> </ul>	Yes
Enclosure material (front)	
Aluminum	Yes; Knockout covered with black film
Dimensions	
Width	313 mm
Height	99 mm
Depth	100.65 mm
Weights	
Weight without packaging	2.2 kg
Scope of supply	
Delivery quantity in pieces	1
Components included	Power supply connectors and 8-pole plug-in connectors for safety-related inputs
last modified:	05/13/2020