## **SIEMENS**

## Data sheet

6AV7674-1LA31-0AA0

Extension unit 12" hardwired 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 equippable; connection via hardwired connection (without equipment)



General information	
Product type designation	Extension Unit 12" Hardwired
Control elements	
Connection type	
Connection type of the LED module	12-pin connector
<ul> <li>Connection type of the contacts of the control elements</li> </ul>	16-pin connector
<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 units	6
Supply voltage	
Type of supply voltage	DC

Rated value (DC)		
permissible range, upper limit (DC)    Input current		
Input current Current consumption (rated value)  Output current  per output  Power  Active power input, typ. Emitted active power  Begree and class of protection  Begree and class of protection  Begree and class of protection  Pes (all-round)  NEMA (front)  • Enclosure Type 4 at the front  Yes  Standards, approvals, certificates  CE mark  UL approval  CULus  Yes  CULus  RCM (formerly C-TICK)  Yes  Suitable for safety functions  Ambient temperature during operation  • min.  • max.  Ambient temperature during storage/transportation  • min.  • max.  Antitude during operation relating to sea level  • Installation altitude above sea level, max.  Relative humidity  • Operation, max.  90 %: no condensation  Cables  Cable length  Material  • Aluminum  Yes  Enclosure material (front)		
Current consumption (rated value)  Output current per output  Active power input, typ. Emitted active power  Set W  Degree and class of protection  IP65 (all-round)  NEMA (front)  • Enclosure Type 4 at the front  Standards, approvals, certificates  CE mark  UL approval  Ves  CH mark  Wes  CH (promerly C-TICK)  Ves  Suitable for safety functions  Ambient temperature during operation  • min.  • max.  Another temperature during storage/transportation  • min.  • max.  Another temperature during storage/transportation  • min.  • max.  Another temperature during operation  • min.  • max.  Another 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  Cables  Cable length  Material  • Aluminum  Pes  Enclosure material (front)	permissible range, upper limit (DC)	28.8 V
Output current per output  Power  Active power input, typ.  Cative power input, the power input, typ.  Cative power input, the power input, typ.  Cative power input, the power input, the power input in put	Input current	
Prower  Active power input, typ.	Current consumption (rated value)	10 mA; without load
Power Active power input, typ. Emitted active power  5 W  Degree and class of protection IP65 (all-round) NEMA (front) • Enclosure Type 4 at the front  Standards, approvals, certificates  CE mark Ves UL approval Ves CULus Ves RCM (formerly C-TICK) Ves Suitable for safety functions Ves; e.g. installation of emergency stop  Ambient conditions  Ambient temperature during operation • min. • max. 50 °C  Ambient temperature during storage/transportation • min. • min. • min. • 60 °C Ambient temperature during operation • min. • min. • 20 °C • max. Altitude during operation relating to sea level • installation altitude above sea level, max.  Altitude during operation relating to sea level • installation altitude above sea level, max.  Cables  Cable length  Mechanics/material  Material • Altuminum  Yes  Enclosure material (front)	Output current	
Active power input, typ. 5 W  Emitted active power 5 W  Degree and class of protection 1P65 (all-round) Yes   NEMA (front) • Enclosure Type 4 at the front Yes    Standards, approvals, certificates   CE mark Yes   UL approval Yes   CULus Yes   RCM (formerly C-TICK) Yes   RCM (formerly C-TICK) Yes   Suitable for safety functions Yes; e.g. installation of emergency stop    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   Cable length 30 m    Mechanics/material   Material • Aluminum Yes   Enclosure material (front)	per output	500 mA; max.
Emitted active power 5 W  Degree and class of protection  IP65 (all-round) Yes  NEMA (front) Yes  Standards, approvals, certificates  CE mark Yes  UL approval Yes  CULus Yes  RCM (formerly C-TICK) Yes  Suitable for safety functions Yes; e.g. installation of emergency stop  Ambient conditions  Ambient temperature during operation  • min. 0 °C • max. 50 °C  Ambient temperature during storage/transportation  • min20 °C • max. 60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max. 90 %; no condensation  Cables  Cable length 30 m  Mechanics/material  Material • Aluminum Yes  Enclosure material (front)	Power	
Degree and class of protection  IP65 (all-round)  NEMA (front)  Enclosure Type 4 at the front  Yes  Standards, approvals, certificates  CE mark  Ves  UL approval  Yes  CUlus  Yes  RCM (formerly C-TICK)  Yes  Suitable for safety functions  Ambient conditions  Ambient conditions  Ambient temperature during operation  Imax  O "C  Ambient temperature during storage/transportation  Imax  O "C  O	Active power input, typ.	0.1 W
IP65 (all-round)  NEMA (front)  Enclosure Type 4 at the front  Yes  Standards, approvals, certificates  CE mark  UL approval  Ves  CULus  RCM (formerly C-TICK)  KC approval  Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  ■ min.  ■ max.  Ambient temperature during storage/transportation  ■ min.  ■ max.  60 °C  Ambient temperature during operation  ■ min.  ■ 220 °C  Ambient during operation relating to sea level  ■ Installation altitude above sea level, max.  Ø 00 °C  Statistical during operation relating to sea level  ■ Installation altitude above sea level, max.  Ø 00 °C  Cables  Cable length  Ø 00 °C  Altitude during operation relating to sea level  ■ Installation altitude above sea level, max.  Ø 00 °C; no condensation	Emitted active power	5 W
NEMA (front)  • Enclosure Type 4 at the front  Yes  Standards, approvals, certificates  CE mark  Ves  UL approval Yes  CULus  RCM (formerly C-TICK) Yes  Suitable for safety functions  Ambient conditions  Ambient temperature during operation • min. • max.  Ambient temperature during storage/transportation • min. • max.  Abient temperature during storage/transportation • min. • max.  Abient temperature during storage/transportation  • min. • max.  Abient temperature during storage/transportation  • min. • max.  Abient temperature during storage/transportation  • min. • max.  Abient temperature during storage/transportation  • min. • max.  Abient temperature during storage/transportation  • min. • max.  90 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  90 %; no condensation  Cables  Cable length  30 m  Mechanics/material  Material • Aluminum  Yes  Enclosure material (front)	Degree and class of protection	
● Enclosure Type 4 at the front  Standards, approvals, certificates  CE mark  UL approval  Ves  CULus  Yes  RCM (formerly C-TICK)  KC approval  Ves  Suitable for safety functions  Ambient conditions  Ambient temperature during operation  ● min.  ● max.  ● max.  Ambient temperature during storage/transportation  ● min.  ● max.  60 °C  Antitude during operation relating to sea level  ● Installation altitude above sea level, max.  2 000 m  Relative humidity  ● Operation, max.  90 %; no condensation  Cables  Cable length  Material  ● Aluminum  Mechanics/material  Material  ● Aluminum  Yes  Enclosure material (front)	IP65 (all-round)	Yes
Standards, approvals, certificates  CE mark  UL approval  Ves  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.  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  Cables  Cable length  Material • Aluminum  Mechanics/material  Material • Aluminum  Yes  Enclosure material (front)	NEMA (front)	
CE mark  UL approval  Ves  UL approval  Ves  RCM (formerly C-TICK)  Yes  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.  2 000 m  Relative humidity • Operation, max.  90 %; no condensation  Cables  Cable length  30 m  Mechanics/material  Material • Aluminum  Yes  Enclosure material (front)	<ul> <li>Enclosure Type 4 at the front</li> </ul>	Yes
UL approval cULus Yes RCM (formerly C-TICK) Yes 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.  4 min. • max.  60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation  Cables  Cable length 30 m  Mechanics/material  Material • Aluminum Yes  Enclosure material (front)	Standards, approvals, certificates	
CULus Yes  RCM (formerly C-TICK) Yes  KC 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. • max. 60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation  Cables  Cable length 30 m  Mechanics/material  Material • Aluminum Yes  Enclosure material (front)	CE mark	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. • max.  60 °C  Altitude during operation relating to sea level • Installation altitude above sea level, max.  Relative humidity • Operation, max.  90 %; no condensation  Cables  Cable length  Material • Aluminum  Figs.  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	UL approval	Yes
Yes	cULus	Yes
Suitable for safety functions  Ambient conditions  Ambient temperature during operation  • min. • max.  • min. • min. • min. • min. • min. • min. • max.  60 °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  Cables  Cable length  30 m  Mechanics/material  Material • Aluminum  Pesson installation of emergency stop  O °C	RCM (formerly C-TICK)	Yes
Ambient conditions  Ambient temperature during operation  • min. • max.  50 °C  Ambient temperature during storage/transportation  • 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  Cables  Cable length  30 m  Mechanics/material  Material • Aluminum  Fessore Search Se	KC approval	Yes
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  Cables  Cable length  30 m  Mechanics/material  Material  • Aluminum  Yes  Enclosure material (front)	Suitable for safety functions	Yes; e.g. installation of emergency stop
<ul> <li>min.</li> <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>Relative humidity</li> <li>Operation, max.</li> <li>90 %; no condensation</li> </ul> Cables Cable length <ul> <li>30 m</li> </ul> Mechanics/material <ul> <li>Aluminum</li> <li>Pes</li> </ul> Enclosure material (front)	Ambient conditions	
<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> Cables Cable length <ul> <li>30 m</li> </ul> Mechanics/material <ul> <li>Aluminum</li> <li>Yes</li> </ul> Enclosure material (front)	Ambient temperature during operation	
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  Cables  Cable length  Material  • Aluminum  Yes  Enclosure material (front)	• min.	0 °C
<ul> <li>min.</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> Cables Cable length <ul> <li>30 m</li> </ul> Mechanics/material <ul> <li>Aluminum</li> <li>Yes</li> </ul> Enclosure material (front)	● max.	50 °C
max.  Altitude during operation relating to sea level  Installation altitude above sea level, max.  Pelative humidity  Operation, max.  90 %; no condensation  Cables  Cable length  Mechanics/material  Aluminum  Yes  Enclosure material (front)	Ambient temperature during storage/transportation	
Altitude during operation relating to sea level  Installation altitude above sea level, max.  Relative humidity  Operation, max.  90 %; no condensation  Cables  Cable length  30 m  Mechanics/material  Aluminum  Yes  Enclosure material (front)	• min.	-20 °C
Installation altitude above sea level, max.  Relative humidity  Operation, max.  90 %; no condensation  Cables  Cable length  30 m  Mechanics/material  Material  Aluminum  Yes  Enclosure material (front)	• max.	60 °C
Relative humidity	Altitude during operation relating to sea level	
● Operation, max.  Cables  Cable length  Mechanics/material  Material  ● Aluminum  Enclosure material (front)	• Installation altitude above sea level, max.	2 000 m
Cables Cable length 30 m  Mechanics/material  Material  • Aluminum  Yes  Enclosure material (front)	Relative humidity	
Cable length 30 m  Mechanics/material  Material  • Aluminum  Enclosure material (front)	Operation, max.	90 %; no condensation
Mechanics/material  Material  • Aluminum  Yes  Enclosure material (front)	Cables	
Material  • Aluminum  Enclosure material (front)  Yes		30 m
• Aluminum Yes Enclosure material (front)	Mechanics/material	
Enclosure material (front)	Material	
	Aluminum	Yes
<ul> <li>Aluminum</li> <li>Yes; Knockout covered with black film</li> </ul>	Enclosure material (front)	

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	All connectors required for customer interfaces
last modified:	12/16/2019