CBL-SEB-14P-V-CE/UL-SL - Secure Edge Box

1495004

https://www.phoenixcontact.com/gb/products/1495004

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The figure shows item version 1473591 with stainless steel housing

Modular switchgear and controlgear assembly for production networks, with firewall function for secure network segmentation, local data storage, web visualization, and cloud connection, with sheet-steel housing. Machine learning integration per PLCnext App possible.

Product description

The switchgear and controlgear assembly Secure Edge Box (SEB) is used as a secure interface between the production network and higher-level IT networks, external service providers, or cloud systems.

The Secure Edge Box segments the production network. Segmentation improves network security and enables authorized external VPN access.

Unauthorized access is blocked by the firewall of the integrated mGuard router. The firewall allows only the necessary data traffic in order to optimally protect the segmented network.
VPN access can be enabled with a switch in the housing door. Optionally, VPN access is also possible via the mGuard Secure Cloud.

Active VPN connections are visualized by a signal light on top of the housing. The door contact provides additional tamper protection by sending a message to the control system when the door is opened.

The Secure Edge Box is optimized for use with the switchgear and controlgear assembly Data Collection Box (see “Accessories”). The integrated edge PC enables data acquisition of connected sensors of the Data Collection Box (e.g., energy measuring devices, flow meters) as well as further process data. The data is saved and visualized locally. Data can be passed to higher-level systems as well as established cloud systems.

IMPORTANT NOTE:

For the function extension of the Secure Edge Box you require additional application software. You can purchase and download the corresponding license in the PLCnext Store (https://www.plcnextstore.com).

License overview:

• IIoT framework
• InfluxDB for PLCnext x86
• Grafana for PLCnext x86
• NodeRED for PLCnext x86
• MLnext Execution

Your advantages

- Fast installation and startup
- Simple firewall handling with locally controllable VPN access and signal light
- Offline data storage and visualization possible
- Data forwarding to different cloud systems possible
- Tamper protection via door switch

Commercial data

Item number	1495004
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DTHDAA
Product key	DTHDAA
GTIN	4063151943455
Weight per piece (including packing)	53 kg
Weight per piece (excluding packing)	53 kg
Customs tariff number	85371098
Country of origin	DE

Technical data

Product properties

Product type	Switchgear and controlgear assembly

Insulation characteristics

Protection class	I

Electrical properties

Supply voltage range	85 V AC ... 264 V AC (50/60 Hz)
Nominal current I_N	1.66 A (100 V AC)
	0.94 A (240 V AC)
Nominal power	208 VA

Fuse

Recommended backup fuse:	16 A

Connection data

AC supply voltage

Type of cable entry	Cable gland (M20)
Cable cross-section range: Without ferrule	0.14 mm² ... 4 mm² (rigid/flexible)
Cable cross-section range: With ferrule	0.14 mm² ... 2.5 mm² (flexible)
External cable diameter	6 mm ... 12 mm

Communication

Type of cable entry	CES cable feed-through
External cable diameter	2x 6 mm ... 7 mm

Interfaces

Ethernet

Bus system	RJ45
Number of interfaces	14 (can be extended to max. 50)
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission length	max. 100 m (per segment)

Dimensions

External dimensions

Width / Height / Depth	600 mm / 800 mm / 300 mm (Housing dimensions without attachment parts)

Material specifications

Material	Sheet steel

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP54
	NEMA 1
Ambient temperature (operation)	0 °C ... 40 °C
Permissible humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Air pressure (operation)	70 kPa ... 106 kPa

Approvals

CE

Certificate	CE-compliant

UL, USA/Canada

Identification	UL 508A
	CSA C22.2 No. 14-2005

Classifications

ECLASS

ECLASS-13.0	27370190
ECLASS-15.0	27370190

ETIM

ETIM 10.0	EC012357

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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