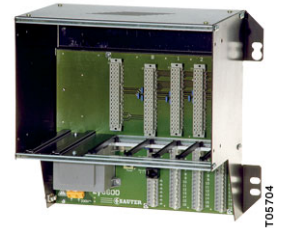


EYU, 109: nova106, Rack for modular automation station

Together with the appropriate cards, the EYU109F001 rack forms a modular automation station, which can be equipped in accordance with the user's and the plant's exact requirements. The rack holds 11 plug-in cards, comprising a UPS card, a processor/power-supply card plus 9 function cards. On the rack's motherboard are the terminals for the network connection of the plant-device and novaNet connections. Also located on this print are the transformer, a fuse, the on/off switches, the RJ-11 (6/4) novaNet connection sockets and the bus. Sixteen terminals are assigned to each slot. The plant devices (potential-free contacts, temperature sensor, motors etc.) are connected to these terminals, providing 60 hardware addresses.



Products

Type	Description	Slots	Weight (kg)
EYU108F001	Rack	5	3
EYU109F001	Rack	11	5

Technical data

Electrical supply

Power supply	230 V AC, 50/60 Hz
Max. Power consumption	40 VA
Max. current consumption (sec.)	3 A
Power loss, max.	approx.10 W

Interfaces, communication

Station Network novaNet	2x a/b terminals
	1x RJ-11 socket

Permitted ambient conditions

Operating temperature	0...45 °C
Storage and transport temperature	-25...70 °C
Humidity	10...90% rh
	no condensation

Installation

Dimensions H x W x D (mm)	
EYU108	267 x 282 x 180
EYU109	267 x 465 x 180
Mounting	Electric cabinet
	Wall mounted

Standards, guidelines and directives

Degree of protection	IP 00
Protection class	I (EN 60730)
Environmental class	3K3 (IEC 60721)
CE conformity as per	
Directive 2006/95/EC	EN 60730
EMC Directive 2004/108/EC	EN 61000-6-1/EN 61000-6-2
	EN 61000-6-3/EN 61000-6-4

Additional information

Fitting instructions	MV 505401
Dimension drawing	M06658/M06659

Accessories

Type	Description
0367854001	Front plate (EYU108)
0367846001	Front plate (EYU109)

Engineering notes

- The EYU109F001 rack can be fitted in a panel using the special fixing brackets.
- The rack requires a power supply of 230 V~.
- The earthing terminals are connected to ground (PE) and to the housing.
- The plant devices are connected to spring-type terminals. The following conditions must be fulfilled:

Connection requirements for devices

Cables size	min. 0.8 mm ² , max. 2.5 mm ² , adhering to the norms
novaNet	with twisted cable
novaLink	with twisted and shielded cable
Digital inputs	potential-free contacts opto-couplers transistors (open collector)
Digital outputs	≤ 42 V/2 A to the relay contacts
Analogue inputs	≤ 10 V= (no extraneous voltage)
Analogue outputs	0...10 V/0...20 mA (no extraneous voltage)
Counters	potential-free contacts, opto-couplers, transistors (open collector)

- The rack forms the basis for a modular automation station and must have a processor card/power-supply card inserted in slot B. The UPS card together with a 12 V accumulator can be fitted in slot A. This ensures uninterrupted operation of all function cards in the event of a power failure. The remaining slots can be fitted with function cards at will: slots 1-7 can each be fitted with eight functions, and slots 8 and 9 each with two. Since the HDB can be freely assigned to the MFAs, the rack can be freely equipped with the function cards.
- To prevent interference, it is imperative that all signals should have the rack's earthing point as their reference. Earthing loops

via other earthing leads can cause malfunctions due to interference and extraneous voltage. Therefore, the rack must be electrically well connected either to the (correctly earthed) panel via the screw provided or to the equipotential bus-bar via an earthing lead (which should be as short as possible). If fitted to walls, the unit must have its own earthing lead.

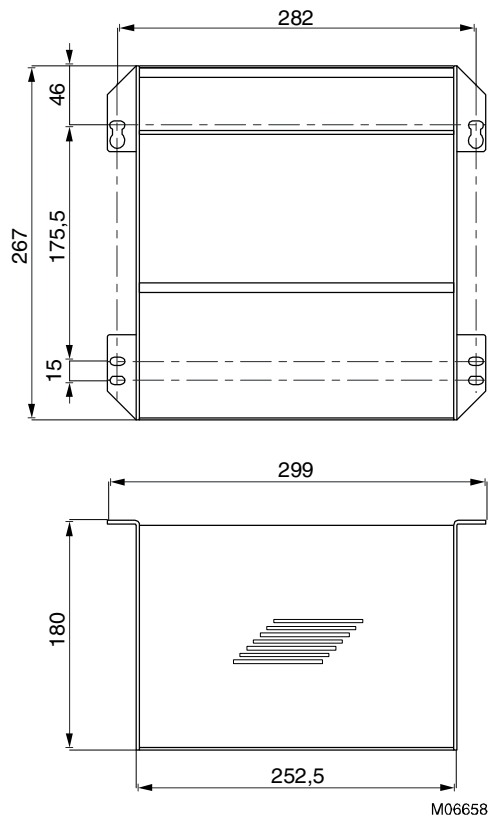
- The maximum current rating for the EYU109F001 rack is 3 A (secondary) in total and should not be exceeded in the sum total of all cards. The list below shows the maximum current and the maximum dissipation for each card that can be inserted into the slots.

Maximum current consumption and dissipation of cards

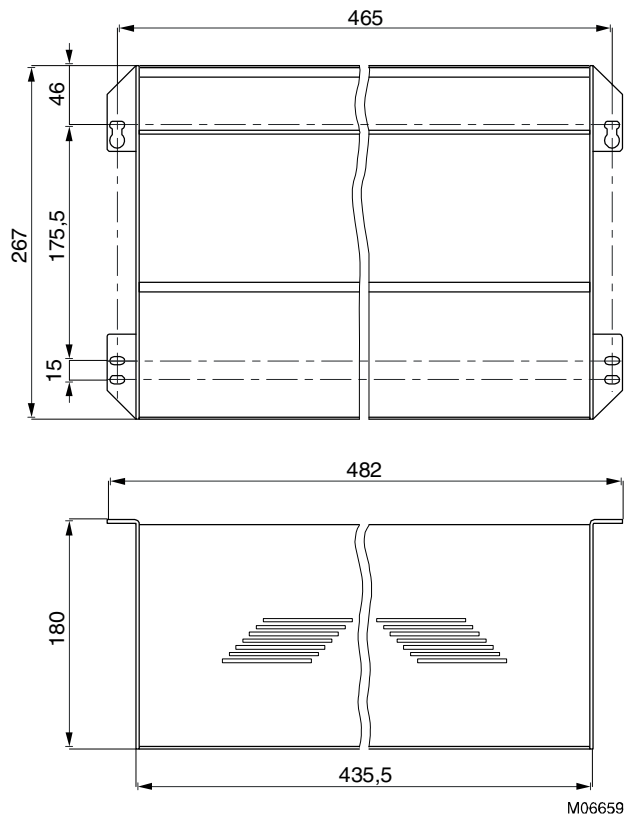
Slot	Plug-in card	Description	Maximum current	Maximum dissipation
A	EYS100F001	UPS plug-in card	165 mA	7.0 W
A	EYK300F001	BACnet communication card	400 mA	5.0 W
B	EYL106F001	Processor and power-supply card	250 mA	3.0 W
B	EYI103F001	Power-supply and UPS card	150 mA	1.0 W
1-3 (or 9)	EYS110F001	DI	17 mA	2.0 W
1-3 (or 9)	EYS110F101	DI with LED	160 mA	2.0 W
1-3 (or 9)	EYS119F001	Pulse counter	10 mA	0.1 W
1-3 (or 9)	EYS121F001	Ni1000/Pt1000 measurement	12 mA	0.1 W
1-3 (or 9)	EYS123F001	Pt100 measurement	20 mA	0.2 W
1-3 (or 9)	EYS124F001	U/I/R measurement	20 mA	0.2 W
1-3 (or 9)	EYS135F001	U/I measurement	30 mA	0.5 W
1-3 (or 9)	EYS141F001	Analogue Out	190 mA	2.2 W
1-3 (or 9)	EYS151F001	Command 0-I with FB	86 mA	3.0 W
1-3 (or 9)	EYS151F101	Command 0-I with FB and LED	92 mA	3.0 W
1-3 (or 9)	EYS153F001	Command 0-III, 0-VI	130 mA	4.6 W
1-3 (or 9)	EYS153F101	Command 0-III, 0-VI with LED	134 mA	4.6 W
1-3 (or 9)	EYS155F001	Command 0-I, 0-II	170 mA	6.2 W
1-3 (or 9)	EYS155F101	Command 0-I, 0-II with LED	185 mA	6.2 W
1-3 (or 9)	EYS158F001	Command 0-II with FB	150 mA	5.0 W
1-3 (or 9)	EYS158F101	Command 0-II with FB and LED	163 mA	5.0 W
1-3 (or 9)	EYS181F001	Emax card (energy management)	100 mA	1.2 W
1-3 (or 9)	EYX162F101	Driver card for EYY160F001	220 mA	2.7 W
1-3 (or 9)	EYX168F001	Driver card for EYY164/165F202	220 mA	2.6 W
1-3 (or 9)	EYX172F001	Driver card for EYY170F202	120 mA	0.1 W
1-3 (or 9)	EYX176F001	Driver card for EYY174F101	600 mA	7.2 W
1	EYI280F...	Communication interface	150 mA	1.0 W
2-3 (or 9)	EYI288F001	Memory and AS card	150 mA	1.0 W

Dimension drawing

EYU108

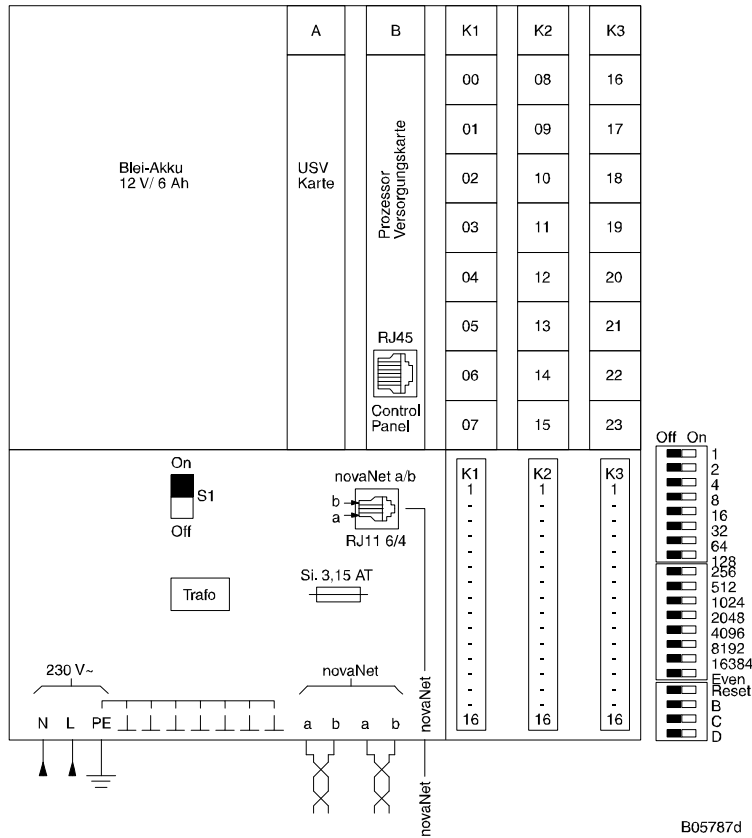


EYU109



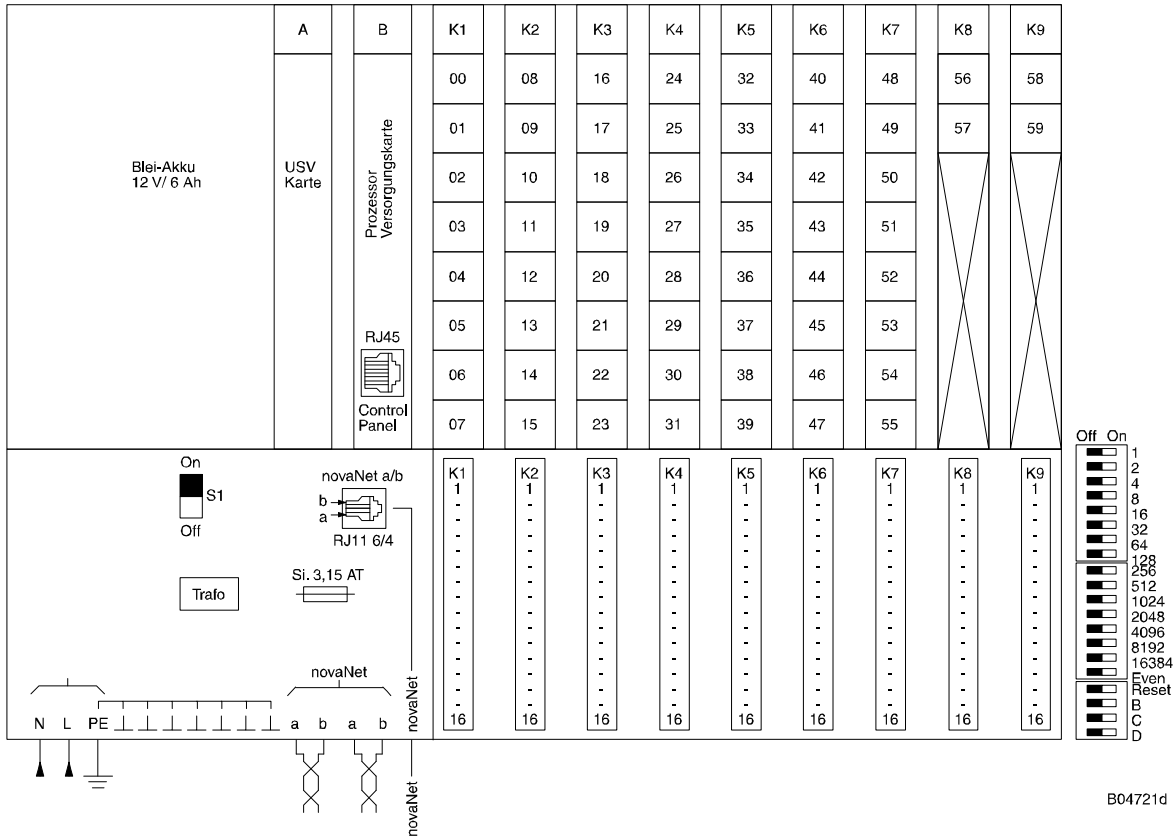
Card slots

EYU108



B05787d

EYU109



B04721d

Wiring details

