8B0C0320HC00.00A-1

1 General information

- Input for connecting an external 24 VDC source (e.g. UPS)
- · Connections for supplying external 24 V devices
- · Extensive protective measures

Danger!

ACOPOSmulti auxiliary supply modules (8B0C0320Hx00.00A-1) are not permitted to be used in combination with ACOPOSmulti SafeMOTION inverter modules!

Information:

Up to five auxiliary supply modules with any power rating can be connected in parallel.

Limitation:

If 8B0C0320Hx00.00A-1 auxiliary supply modules are connected in parallel, the total output power is not permitted to exceed 80% of the sum of the output powers of the 8B0C0320Hx00.00A-1 modules connected in parallel.

ACOPOSmulti 8B0C0320Hx00.00A-1 auxiliary supply modules are used for the internal 24 VDC power supply of ACOPOSmulti drive systems.

In addition, the user has two 24 VDC outputs (one of which can be switched) and an input for supplying feeding 24 VDC via an external voltage source (e.g. UPS).

Application range

ACOPOSmulti drive systems detect a power failure and are able to initiate immediate shutdown of the connected motors.

The braking energy that occurs during braking is returned to the DC bus and can be used via the auxiliary supply module for the 24 VDC power supply of the ACOPOSmulti drive system. During braking, the ACOPOSmulti drive system as well as connected encoders, sensors, control and HMI systems and safety systems can be supplied with 24 VDC.

There are use cases in which the braking energy occurring is not sufficient for the 24 VDC power supply until the motors come to a standstill or in which the 24 VDC power supply is still required for a short time after the motors have come to a standstill in order to properly shut down connected control and HMI systems or to back up data from the ACOPOSmulti drive system.

In these cases, an external 24 VDC source (e.g. UPS) connected to the input of ACOPOSmulti auxiliary supply module 8B0C0320Hx00.00A-1 can ensure the 24 VDC power supply of the ACOPOSmulti drive system and connected external 24 VDC loads for a sufficiently long period of time. B&R recommends switching off unnecessary 24 VDC loads. This can be done using the switchable 24 VDC output of the auxiliary supply module, for example. ¹⁾

In addition, ACOPOSmulti auxiliary supply module 8B0C0320Hx00.00A-1 offers the possibility of operating ACOPOSmulti drive systems using only an external 24 VDC supply without having to supply the DC bus. In this way, partial commissioning of the drive system can be easily carried out.

¹⁾ B&R recommends switching off unnecessary 24 VDC loads. This can be done using the switchable 24 VDC output of the auxiliary supply module, for example.

2 Order data

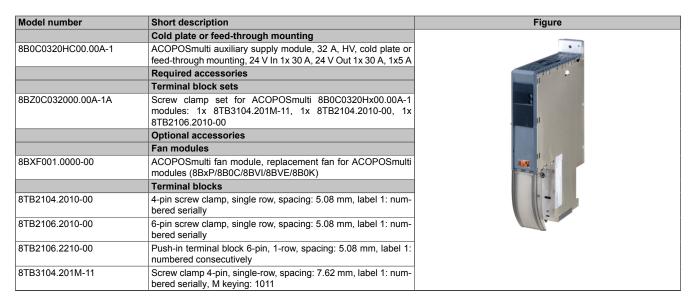


Table 1: 8B0C0320HC00.00A-1 - Order data

3 Technical data

Model number	8B0C0320HC00.00A-1
General information	
Cooling and mounting method	Cold plate or feed-through mounting
Certifications	
CE	Yes
KC	Yes
UL	cULus E225616
	Power conversion equipment
DC bus connection	
Voltage	
Nominal	750 VDC
Operating range in continuous operation	260 to 800 VDC
Full continuous power	315 to 800 VDC
Continuous power consumption	Max. 880 W
Power dissipation with continuous power 1)	22 W (0% continuous power)
	35 W (50% continuous power)
	80 W (100% continuous power)
DC bus capacitance	220 nF
Design	ACOPOSmulti backplane
24 VDC output	
Continuous power 2)	800 W
Output voltage	
DC bus voltage (U _{DC}): 260 to 315 VDC	25 VDC * (U _{DC} / 315)
DC bus voltage (U _{DC}): 315 to 800 VDC	24 VDC ±6%
Continuous current	
Normal mode (via DC bus)	32 ADC
Supply mode (via +24 Vin)	30 ADC
Reduction of continuous power at ambient temperatures starting at 40°C	No reduction
Reduction of continuous power depending on installation elevation	
Starting at 500 m above sea level	80 W per 1000 m
Reduction of continuous power depending on cooling method	No reduction
Startup delay	Max. 1 s
Startup time	Approx. 5 to 20 ms
Residual ripple	Typ. 50 mV _{ss}
24 VDC internal system voltage supply	
Output voltage 3)	25 VDC ±1.6%
Peak current (<4 s)	
DC bus voltage (U _{DC}): 350 to 800 VDC	42 ADC

Table 2: 8B0C0320HC00.00A-1 - Technical data

Model number	8B0C0320HC00.00A-1		
Protective measures	323302211330007 1		
Open circuit protection	Yes		
Overload protection	Yes		
Short circuit protection	Yes		
Feedback protection	Max. 26 VDC (also when switched off)		
Overtemperature protection	Yes		
Dielectric strength to ground	±50 VDC		
Output/Input isolation	SELV/PELV requirements		
Design	ACOPOSmulti backplane		
24 VDC Out			
Output voltage 3)			
DC bus voltage (U _{DC}): 260 to 315 VDC	25 VDC * (U _{DC} / 315)		
DC bus voltage (U _{DC}): 315 to 800 VDC	24 VDC ±6%		
Protection of 24 VDC Out 1 output	30 A (slow-blow) electronic, automatic reset		
Protection of 24 VDC Out 2 output	5 A (slow-blow) electronic, automatic reset		
Protective measures			
Open circuit protection	Yes		
Overload protection	Yes		
Short circuit protection	Yes		
Feedback protection	Max. 35 VDC (also when switched off)		
Overtemperature protection	Yes		
Dielectric strength to ground	±50 VDC		
Output/Input isolation	SELV/PELV requirements		
Design	Mala anno atra		
24 VDC, COM	Male connector		
Terminal connection cross section of 24 VDC Out 1 output			
Flexible and fine wire lines			
With wire end sleeves	0.25 to 6 mm ²		
Approbation data	0.20 to 0 mm		
UL/C-UL-US	22 to 10 AWG		
CSA	22 to 10 AWG		
Terminal connection cross section of 24 VDC Out 2			
output			
Flexible and fine wire lines			
With wire end sleeves	0.25 to 2.5 mm ²		
Approbation data			
UL/C-UL-US	22 to 12 AWG		
CSA	22 to 12 AWG		
24 VDC Out 1 controller input	01.1		
LVVICING			
Wiring Electrical indiction	Sink		
Electrical isolation			
Electrical isolation Input - 24 VDC	Yes		
Electrical isolation Input - 24 VDC Modulation compared to ground potential			
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage	Yes Max. ±50 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal	Yes Max. ±50 V 24 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum	Yes Max. ±50 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold	Yes Max. ±50 V 24 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on)	Yes Max. ±50 V 24 VDC 30 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off)	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on)	Yes Max. ±50 V 24 VDC 30 VDC <5 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on)	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off)	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5)	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC 26 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum Voltage drop between input and internal 24 VDC	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum Voltage drop between input and internal 24 VDC system voltage supply	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC 26 VDC <0.5 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum Voltage drop between input and internal 24 VDC system voltage supply Switch-on threshold	Yes Max. ±50 V 24 VDC 30 VDC		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum Voltage drop between input and internal 24 VDC system voltage supply Switch-on threshold Max. continuous current	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC 26 VDC <0.5 V		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage ⁽⁵⁾ Minimum Nominal Maximum Voltage drop between input and internal 24 VDC system voltage supply Switch-on threshold Max. continuous current Switching delay	Yes Max. ±50 V 24 VDC 30 VDC <5 V >15 V Approx. 10 mA Max. 25 ms Max. 0.25 ms Male connector 0.25 to 2.5 mm² 30 to 12 AWG 22 to 12 AWG 23 VDC 24 VDC 26 VDC <0.5 V +24 VDC internal system power supply <21.5 VDC 30 A		
Electrical isolation Input - 24 VDC Modulation compared to ground potential Input voltage Nominal Maximum Switching threshold Low (24 VDC Out 1 is switched on) High (24 VDC Out 1 is switched off) Input current at nominal voltage Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) Design Terminal connection cross sections Flexible and fine wire lines With wire end sleeves Approbation data UL/C-UL-US CSA 24 VDC In Input voltage 5) Minimum Nominal Maximum Voltage drop between input and internal 24 VDC system voltage supply Switch-on threshold Max. continuous current	Yes Max. ±50 V 24 VDC 30 VDC		

Table 2: 8B0C0320HC00.00A-1 - Technical data

Model number	8B0C0320HC00.00A-1
Status indicators	24Vi LED
	ERRi LED
Undervoltage detection	Yes (<20 VDC)
Overvoltage detection	Yes (>26 VDC)
Protective measures	
Open circuit protection	Yes
Overload protection	Yes, ticker operation on overload ($T_{ON} = 1 \text{ s}$, $T_{OFF} = 2.4 \text{ s}$)
Short circuit protection	Yes
Overtemperature protection	Yes
Design	
24 VDC In, COM	Male connector
Terminal connection cross section of input "24 VDC In"	
Flexible and fine wire lines	
With wire end sleeves	0.5 to 6 mm ²
Approbation data	
UL/C-UL-US	22 to 10 AWG
CSA	22 to 10 AWG
Operating conditions	
Permissible mounting orientations	
Hanging vertically	Yes
Lying horizontally	Yes
Standing horizontally	No
Installation at elevations above sea level	
Nominal	0 to 500 m
Maximum 6)	4000 m
Pollution degree per EN 61800-5-1	2 (non-conductive pollution)
Overvoltage category per EN 61800-5-1	
Degree of protection per EN 60529	IP20
Environmental conditions	
Temperature	
Operation	
Nominal	5 to 40°C
Maximum	55°C
Storage	-25 to 55°C
Transport	-25 to 70°C
Relative humidity	
Operation	5 to 85%
Storage	5 to 95%
Transport	Max. 95% at 40°C
Mechanical characteristics	
Dimensions 7)	
Width	53 mm
Height	317 mm
Depth	
Cold plate	212 mm
Feed-through mounting	209 mm
Weight	Approx. 2.9 kg

Table 2: 8B0C0320HC00.00A-1 - Technical data

- 1) Continuous power on the 24 VDC output
- 2) Valid under the following conditions: 750 VDC DC bus voltage, 55°C ambient temperature, installation elevation <500 m above sea level, no derating due to cooling type.
- 3) The output voltage is limited to max. 60 VDC in the event of error.
- 4) When switching off, there is no active discharge of the output and the loads connected to it.
- 5) The +24 V input of the module is non-destructive in a voltage range from -32 VDC to +32 VDC.
 - If a voltage outside this voltage range is applied to input +24 V In, this voltage may be switched through directly to the 24 VDC outputs of the module without voltage limitation.
- 6) Continuous operation at an installation elevation of 500 m to 4,000 m above sea level is possible taking the specified reduction of continuous power into account. Requirements that go beyond this must be arranged with B&R.
- 7) These dimensions refer to the actual device dimensions including the respective mounting plate. Make sure to leave additional space above and below the devices for mounting, connections and air circulation.

4 Status indicators

Status indicators are located on the black cover of each module.

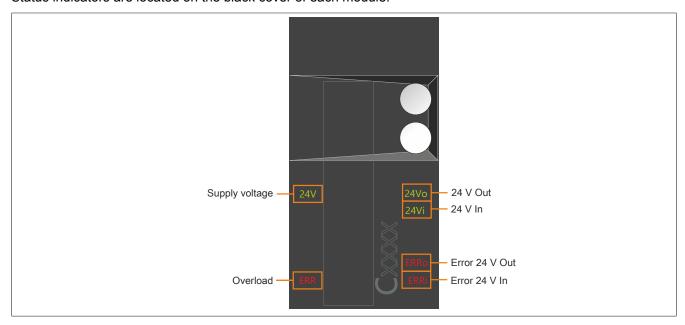


Figure 1: Auxiliary supply modules with 24 V Out and 24 V In (8B0C0320Hx00.00A-1) - Status indicator groups

4.1 Auxiliary supply modules with 24 V Out and 24 V In - LED status indicators

Status indicator group	Label	Color	Function	Description
Power supply	24 V	Green	24 V OK	The 24 VDC internal system power supply is within the permissible tolerance.
Overload	ERR	Red	Overload	The module is not supplied via the DC bus. ¹⁾ The 24 VDC internal system power supply or 42 VDC power supply is outside of the permissible tolerance (overload, overtemperature, short circuit, etc.).
24 V Out	24Vo	Green	24 V Out OK	One of the switchable 24 VDC outputs is enabled; the output voltage overshoots the minimum permissible value. The 24 VDC internal system power supply overshoots the minimum permissible value.
24 V In	24Vi	Green	24 V In OK	The 24 VDC external system power supply is within the permissible tolerance.
Error 24 V Out	ERRo	Red	24 V Out error	The 24 VDC internal system power supply undershoots the minimum permissible value (overload, overtemperature, short circuit, etc.). At least one of the switchable outputs is enabled, and one or more switchable outputs has tripped the electronic fuse.
Error 24 V In	ERRi	Red	24 V In error	The 24 VDC external system power supply is outside the permissible tolerance. The 24 VDC external system power supply is within the permissible tolerance, and the electronic fuse has been tripped (overload, short circuit, etc.) The 24 VDC external system power supply is within the permissible tolerance, and temperature monitoring has been triggered.

Table 3: 8B0C auxiliary supply modules with 24 V Out and 24 V In - LED status indicators

1) The module is enabled via input CR-OK, no electrical contact to the backplane module - check the lower mounting screw.

5 Dimension diagram and installation dimensions

5.1 Cold plate

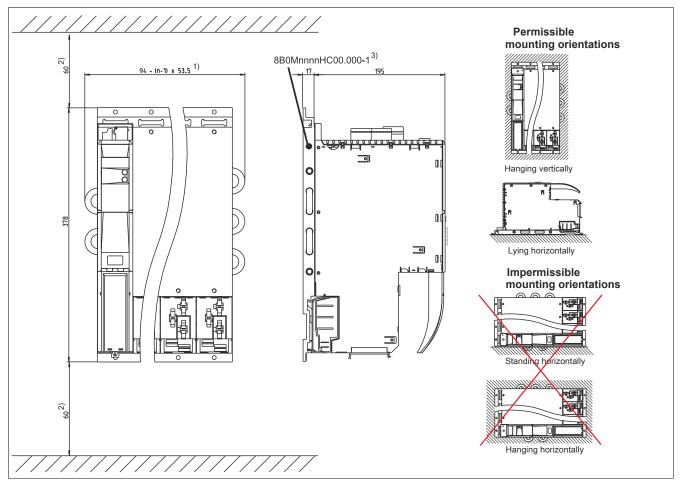


Figure 2: Cold plate - Dimension diagram and installation dimensions

- 1) n... Number of width units on the mounting plate
- For sufficient air circulation, a clearance of at least 60 mm must be provided above the mounting plate and below the module.
- 3) nnnn indicates the number of slots (e.g. 0160 refers to 16 slots).

Information:

When mounting ACOPOSmulti modules for cold-plate or feed-through mounting, be sure not to scratch the backplane. This can impair thermal dissipation to the mounting plate.

Do not set down ACOPOSmulti modules for cold-plate or feed-through mounting on their bottom side. Doing so could break the clips that hold the unit is fan. Broken clips make it more difficult to replace the fans later on.

5.2 Feed-through mounting

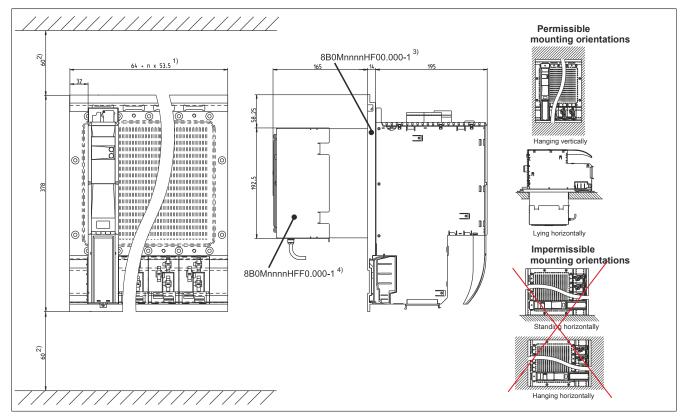


Figure 3: Feed-through mounting - Dimension diagram and installation dimensions

- 1) n... Number of width units on the mounting plate
- 2) For sufficient air circulation, a clearance of at least 60 mm must be provided above the mounting plate and below the module.
- 3) nnnn indicates the number of slots (e.g. 0160 refers to 16 slots).
- 4) For sufficient air circulation, a clearance of at least 100 mm must be provided around the fan module.

Information:

When mounting ACOPOSmulti modules for cold-plate or feed-through mounting, be sure not to scratch the backplane. This can impair thermal dissipation to the mounting plate.

Do not set down ACOPOSmulti modules for cold-plate or feed-through mounting on their bottom side. Doing so could break the clips that hold the unit is fan. Broken clips make it more difficult to replace the fans later on.

6 Wiring

6.1 8B0C0320Hx00.00A-1 - Pinout overview

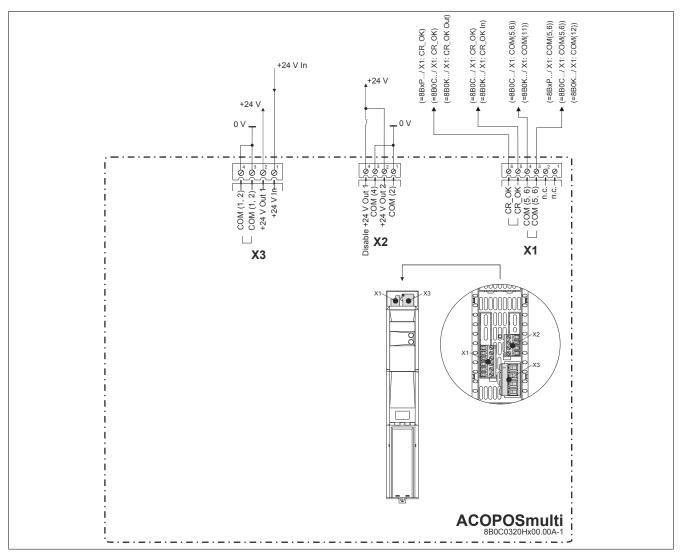


Figure 4: 8B0C0320Hx00.00A-1 - Pinout overview

6.2 Connector X1 - Pinout

X1	Pin	Description	Function
	1		
	2		
	3	COM (5, 6)	DC bus ready 0 V
3	4	COM (5, 6)	DC bus ready 0 V
4	5	CR_OK	DC bus ready
5	6	CR_OK	DC bus ready
6			

Table 4: Connector X1 - Pinout

6.3 Connector X2 - Pinout

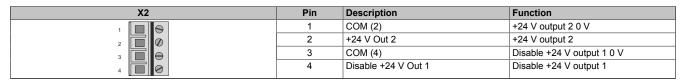


Table 5: Connector X2 - Pinout

6.4 Connector X3 - Pinout

Х3	Pin	Description	Function
	1	+24 V In	+24 V feed
	2	+24 V Out 1	+24 V output 1
	3	COM (1, 2) 1)	+24 V output 1 0 V
	4	COM (1, 2) 1)	+24 V output 1 0 V
4 3 2 1			

Table 6: Connector X3 - Pinout

1) Connectors X3/3 and X3/4 are internally connected.

Information:

To obtain a defined reference of ground to ground potential, B&R recommends grounding the two COM connections (1, 2) on connector X3. Alternatively, grounding of the COM (2) connection is possible on connector X2.

6.5 Input/Output circuit diagram

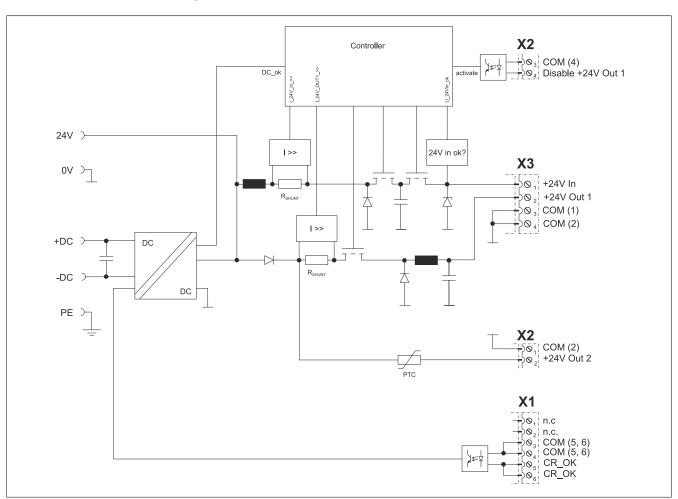


Figure 5: 8B0C0320Hx00.00A-1 - Input/Output circuit diagram

6.6 Parallel connection of multiple 8B0C auxiliary supply modules

Warning!

When connecting external 24 V outputs (24 V Out 1, 24 V Out 2) in parallel, the corresponding COM connections must also be connected in parallel!