8B0C0320HC00.000-1

1 General information

• Extensive protective measures

2 Order data

Model number	Short description	Figure		
	Cold plate or feed-through mounting			
8B0C0320HC00.000-1	ACOPOSmulti auxiliary supply module 32 A, HV, cold plate or	• •		
	feed-through mounting			
	Required accessories			
	Terminal block sets			
8BZ0C032000.000-1A	Screw clamp set for ACOPOSmulti 8B0C0xx0Hx00.000-1 modules: 1x 8TB2106.2010-00			
	Optional accessories			
	Fan modules			
8BXF001.0000-00	ACOPOSmulti fan module, replacement fan for ACOPOSmulti modules (8BxP/8B0C/8BVI/8BVE/8B0K)	Name of the last o		
	Terminal blocks			
8TB2106.2010-00	6-pin screw clamp, single row, spacing: 5.08 mm, label 1: numbered serially			
8TB2106.2210-00	Push-in terminal block 6-pin, 1-row, spacing: 5.08 mm, label 1: numbered consecutively	į.		

Table 1: 8B0C0320HC00.000-1 - Order data

3 Technical data

Model number	8B0C0320HC00.000-1		
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)		
DO 1	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	32 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}		

Table 2: 8B0C0320HC00.000-1 - Technical data

Model number	8B0C0320HC00.000-1		
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		
Protective measures	.==-		
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		
Operating conditions	7001 Comula baciquano		
Permissible mounting orientations			
Hanging vertically	Yes		
Lying horizontally	Yes		
Standing horizontally	No		
Installation at elevations above sea level	110		
Nominal	0 to 500 m		
Maximum ⁴⁾	4000 m		
Pollution degree per EN 61800-5-1	2 (non-conductive pollution)		
Overvoltage category per EN 61800-5-1	Z (Horr-conductive poliution)		
Degree of protection per EN 60529	IP20		
Environmental conditions	IF 20		
Temperature			
Operation			
Nominal	5 to 40°C		
Maximum	55°C		
Storage	-25 to 55°C		
Transport	-25 to 70°C		
Relative humidity	-23 10 10 0		
Operation	5 to 85%		
Storage	5 to 95%		
Transport	5 to 95% Max. 95% at 40°C		
Mechanical characteristics	Widx. 33 /v dt +0 C		
Dimensions 5)			
Width	53 mm		
Height	317 mm		
Depth	VII IIIIII		
Cold plate	212 mm		
Feed-through mounting	212 Hilli 209 mm		
Weight	Approx. 2.5 kg		
Module width	дрргох. 2.3 кg		
Module Midti	I		

Table 2: 8B0C0320HC00.000-1 - 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.
- The output voltage is limited to max. 60 VDC in the event of error.
- 4) 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.
- 5) 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.

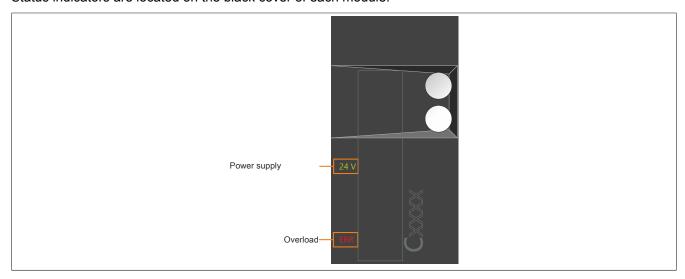


Figure 1: Auxiliary supply modules (8B0C0xx0Hx00.000-1) - Status indicator groups

4.1 Auxiliary supply modules - 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 permis-
				sible tolerance.
Overload	ERR	Red	Overload	The module is not supplied via the DC bus. 1) The 24 VDC internal system power supply is outside of the
				permissible tolerance (overload, overtemperature, short circuit, etc.).

Table 3: 8B0C auxiliary supply modules - 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

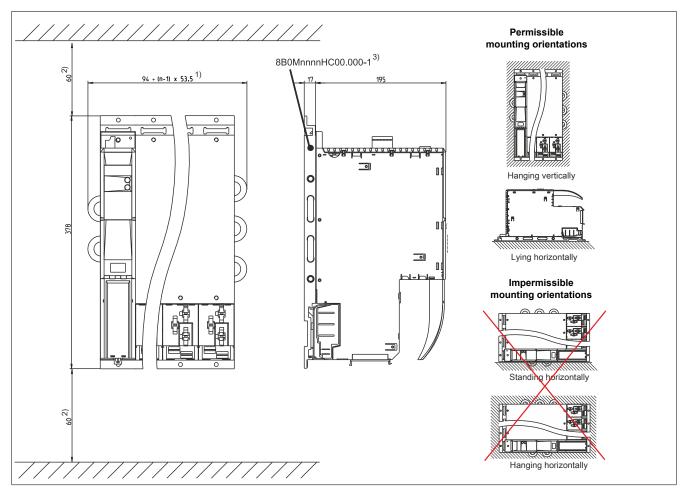


Figure 2: Cold plate - Dimension diagram and installation dimensions

- 1) n... Number of width units on the mounting plate
- 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).

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

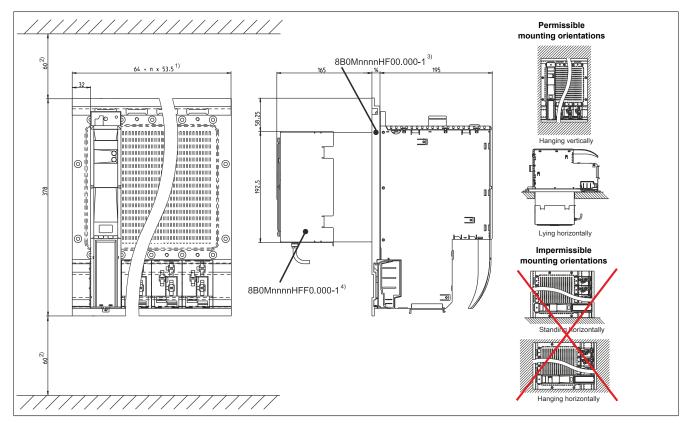


Figure 3: Feed-through mounting - Dimension diagram and installation dimensions

- 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 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Pinout overview

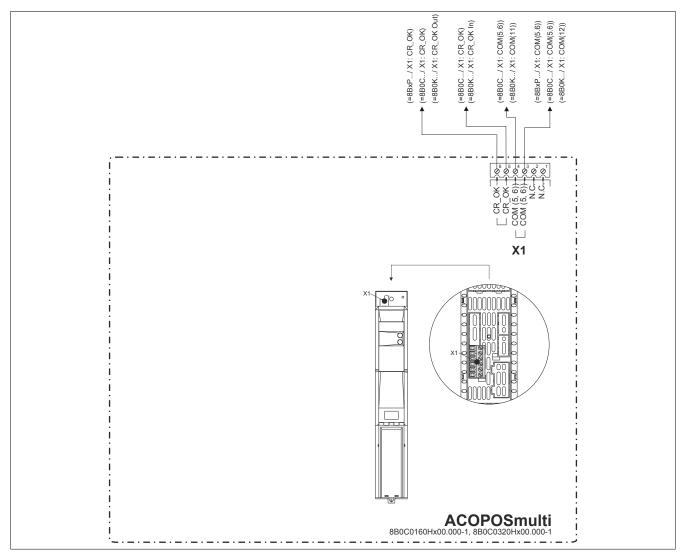


Figure 4: 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Pinout overview

6.2 Connector X1 - Pinout

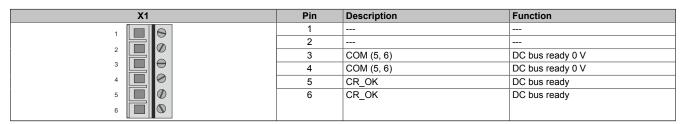


Table 4: Connector X1 - Pinout

6.3 Input/Output circuit diagram

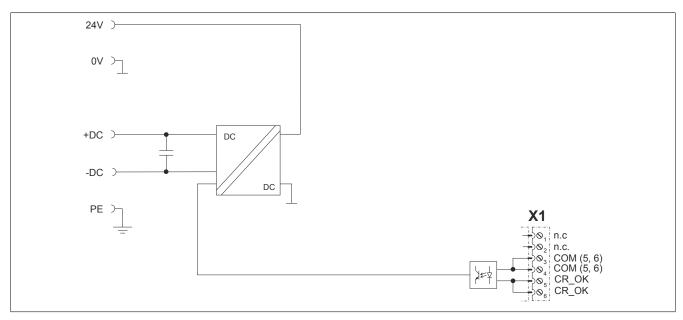


Figure 5: 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Input/Output circuit diagram