8B0C0320HW00.000-1

1 General information

- Extensive protective measures

2 Order data

Model number	Short description	Figure
	Wall mounting	
8B0C0320HW00.000-1	ACOPOSmulti auxiliary supply module, 32 A, HV, wall 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)	
	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	

Table 1: 8B0C0320HW00.000-1 - Order data

3 Technical data

Model number	8B0C0320HW00.000-1
General information	
Cooling and mounting method	Wall 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	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: 8B0C0320HW00.000-1 - Technical data

Model number	8B0C0320HW00.000-1
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	
Permissible mounting orientations	
Hanging vertically	Yes
Lying horizontally	Yes
Standing horizontally	No
Installation at elevations above sea level	
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	III
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 [5]	
Width	53 mm
Height	317 mm
Depth	
Wall mounting	263 mm
Weight	Approx. 3 kg
Module width	1

Table 2: 8B0C0320HW00.000-1 - 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.
3) 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.

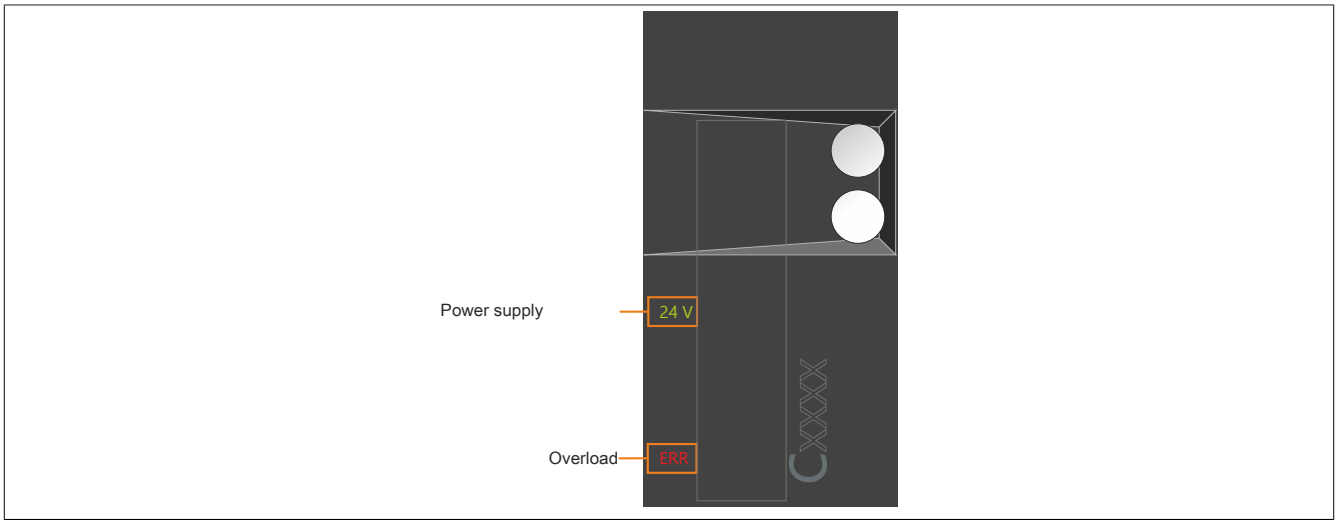


Figure 1: Auxiliary supply modules (8B0C0xx0Hx00.000-1) - Status indicator groups

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 permissible 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

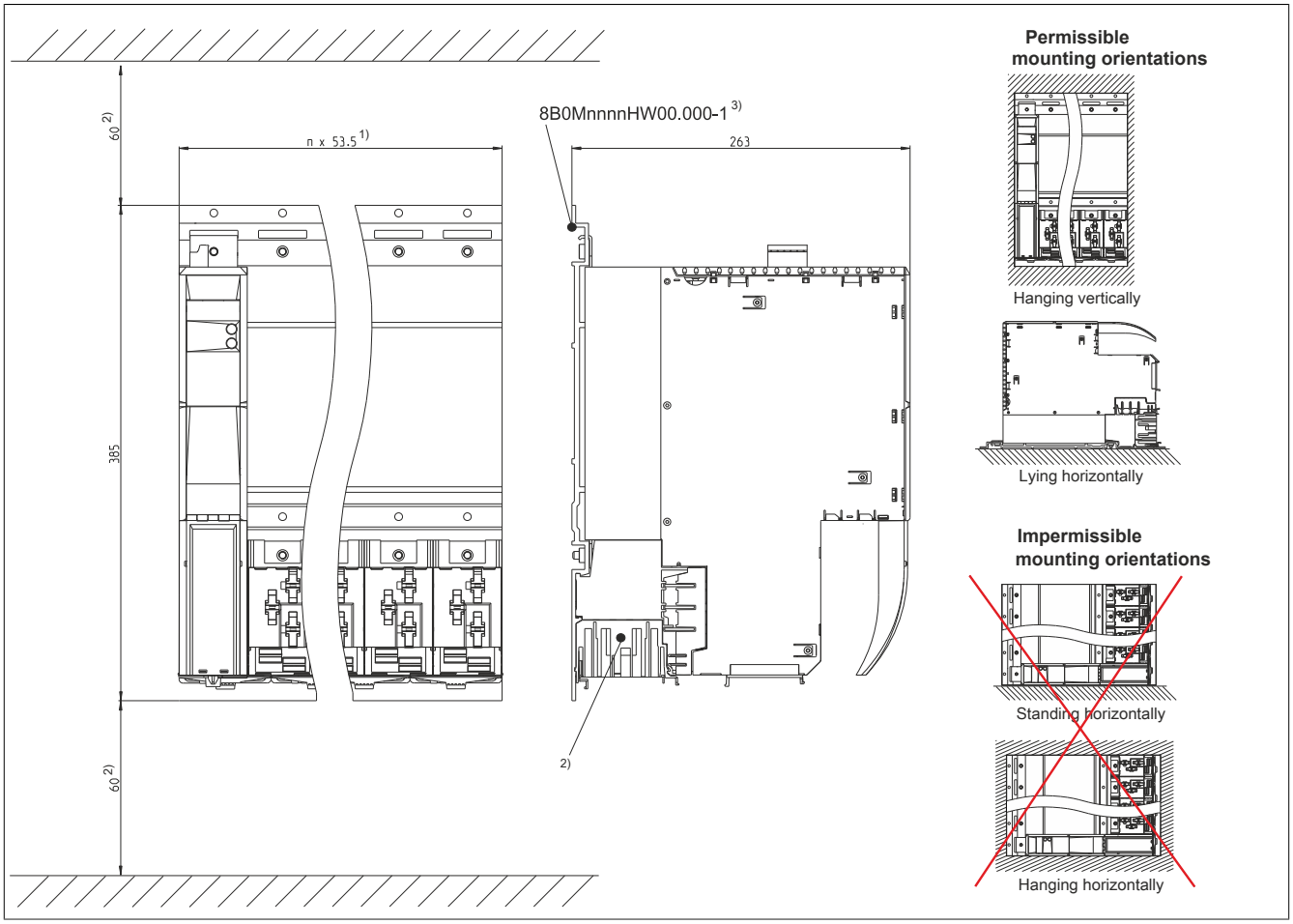


Figure 2: Dimension diagram and installation dimensions

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.
To ensure that the fan modules in the mounting plate can be replaced easily, at least 250 mm clearance must be available below the module.
3) nnnn indicates the number of slots (e.g. 0160 refers to 16 slots).

6 Wiring

6.1 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Pinout overview

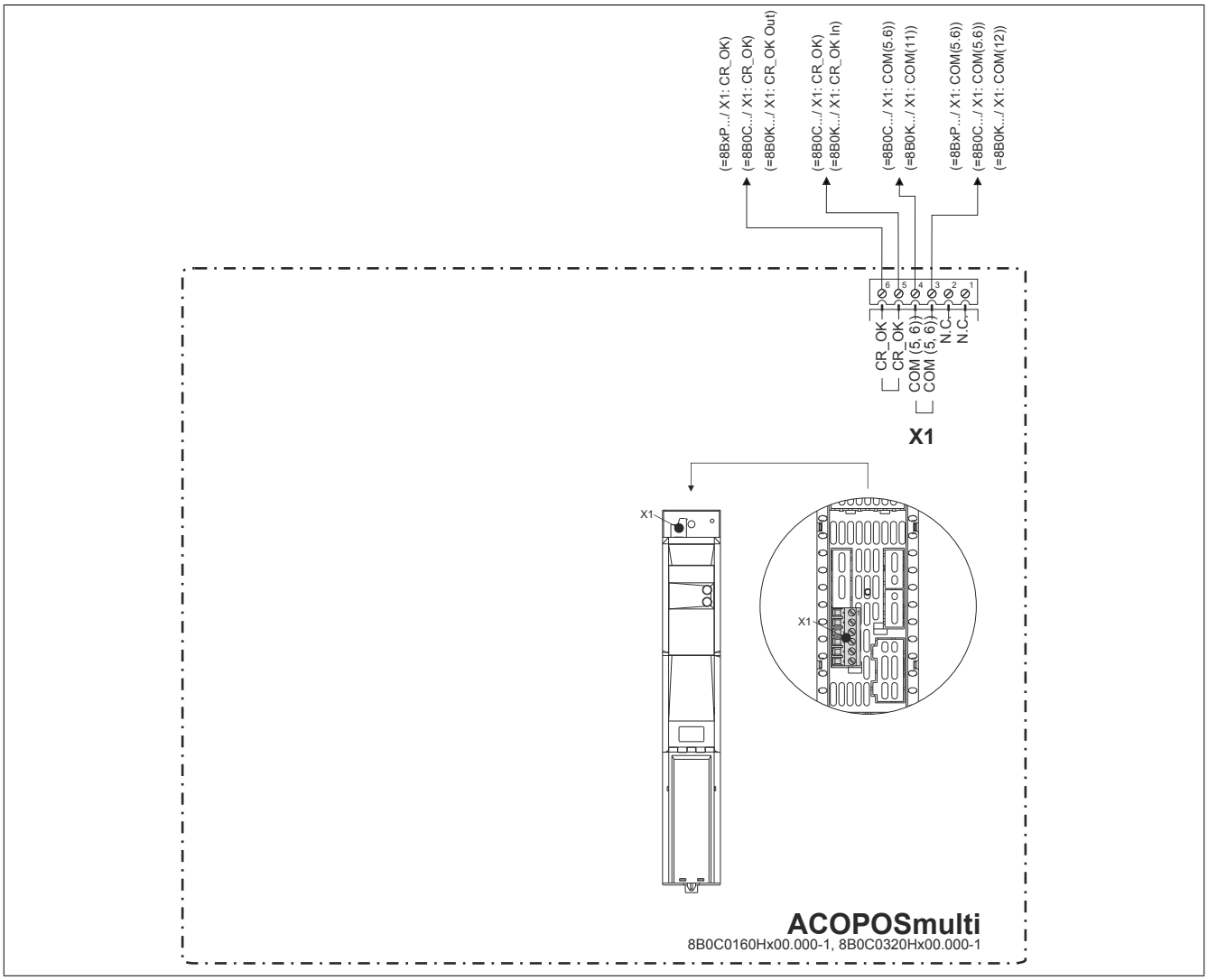


Figure 3: 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Pinout overview

6.2 Connector X1 - Pinout

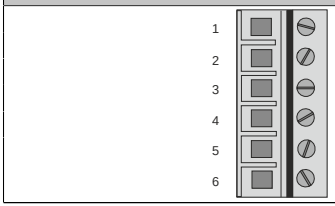
X1	Pin	Description	Function
	1	---	---
	2	---	---
	3	COM (5, 6)	DC bus ready 0 V
	4	COM (5, 6)	DC bus ready 0 V
	5	CR_OK	DC bus ready
	6	CR_OK	DC bus ready

Table 4: Connector X1 - Pinout

6.3 Input/Output circuit diagram

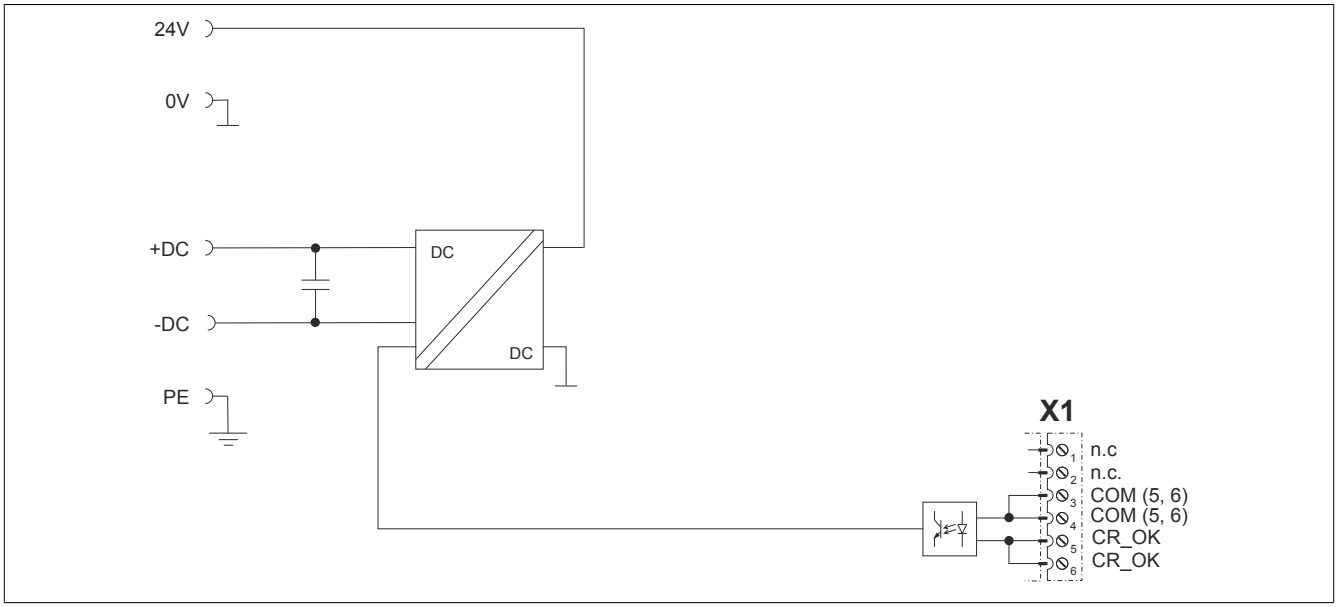


Figure 4: 8B0C0160Hx00.000-1, 8B0C0320Hx00.000-1 - Input/Output circuit diagram