8B0M0230HW00.000-1

1 General information

- Pioneering power distribution system
- Integrated distribution of power and auxiliary power supply
- Shockproof
- Option slots possible

2 Order data

Model number	Short description	Figure
	Wall mounting	
8B0M0230HW00.000-1	ACOPOSmulti mounting plate with backplane, 23 slots, HV, wall mounting, 75 mm² and 22 mm², complete	
	Optional accessories	
	Fan modules	
8BXF002.0000-00	ACOPOSmulti fan module, replacement fan for mounting plate with backplane module, wall mounting (8B0MxxxxHWxx.xxx-x)	

Table 1: 8B0M0230HW00.000-1 - Order data

Model number	Number of slots	Number of fan modules
8B0M0230HW00.000-1	23	17

Table 2: Number of 8BXF002.0000-00 fan modules depending on mounting plate 8B0M

3 Technical data

Model number	8B0M0230HW00.000-1
General information	
Number of slots	23
Cooling and mounting method	Wall mounting
Certifications	
CE	Yes
UL	cULus E225616 Power conversion equipment
DC bus connection	
Voltage	
Nominal	750 VDC
Continuous power [1)]	200 kW
Reduction of continuous power depending on installation elevation	
Starting at 500 m above sea level	20 kW per 1000 m
Cross section	
DC+, DC-	72 mm²
PE	72 mm²

Table 3: 8B0M0230HW00.000-1 - Technical data

Model number	8B0M0230HW00.000-1
24 VDC auxiliary supply	
Voltage	25 VDC ±1.6%
Continuous power [1]	1500 W
Max. power consumption per slot ($P_{Fan8B0M...}$)	8.25 W [2]
Reduction of continuous power depending on installation elevation	
Starting at 500 m above sea level	150 W per 1000 m
Cross section	
24 VDC, COM	21.3 mm²
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 [3]	4000 m
Pollution degree per EN 61800-5-1	2 (non-conductive pollution)
Overvoltage category per EN 61800-5-1	III
Evenness of mounting surface	Evenness of 1 mm over the entire mounting surface
Degree of protection per EN 60529	IP20
Environmental conditions	
Temperature	
Operation	
Nominal	5 to 40°C
Maximum [4]	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	1230.5 mm
Height	385 mm
Depth	13.5 mm
Weight	12.2 kg

Table 3: 8B0M0230HW00.000-1 - Technical data

1) Valid for the following conditions: 40°C ambient temperature, installation elevation <500 m above sea level.
2) Corresponds to the proportional power consumption of the fan modules in the mounting plate.
3) Continuous operation of ACOPOSmulti mounting plates at an installation elevation of 500 m to 4000 m above sea level is possible taking the specified reduction in continuous power into account. Requirements that go beyond this must be arranged with B&R.
4) Continuous operation of ACOPOSmulti mounting plates at ambient temperatures ranging from 40°C to max. 55°C is possible (taking the specified continuous power reductions into consideration).
5) The dimensions define the size of the mounting plate. Make sure to leave additional space above and below the backplanes for mounting, connections and air circulation.

4 Status LED

Information:

The fan modules on the underside of 8B0M mounting plates are equipped with a status LED.



Figure 1: Fan LED 8BXF002.0000-00

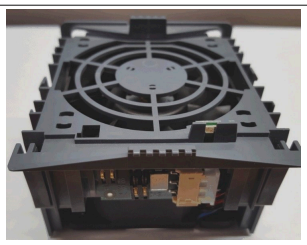


Figure 2: Fan module 8BVF002.0000-00

Label	Color	Function	Description	
Fan module	Green/Red	Ready/Error	LED off	Fan module not supplied with 24 VDC
			LED lit red	Fan module supplied with 24 VDC, fan in fan module not rotating
			LED lit green	Fan module supplied with 24 VDC, fan in fan module rotating

Table 4: LED status indicator 8BXF002.0000-00

Information:

The ACOPOSmulti drive system has no way of detecting whether the fans in the fan modules of the mounting plate or the module-internal fans are actually rotating.

5 Dimension diagram and installation dimensions

Information:

nnnn indicates the number of slots (0160 equals 16 slots).

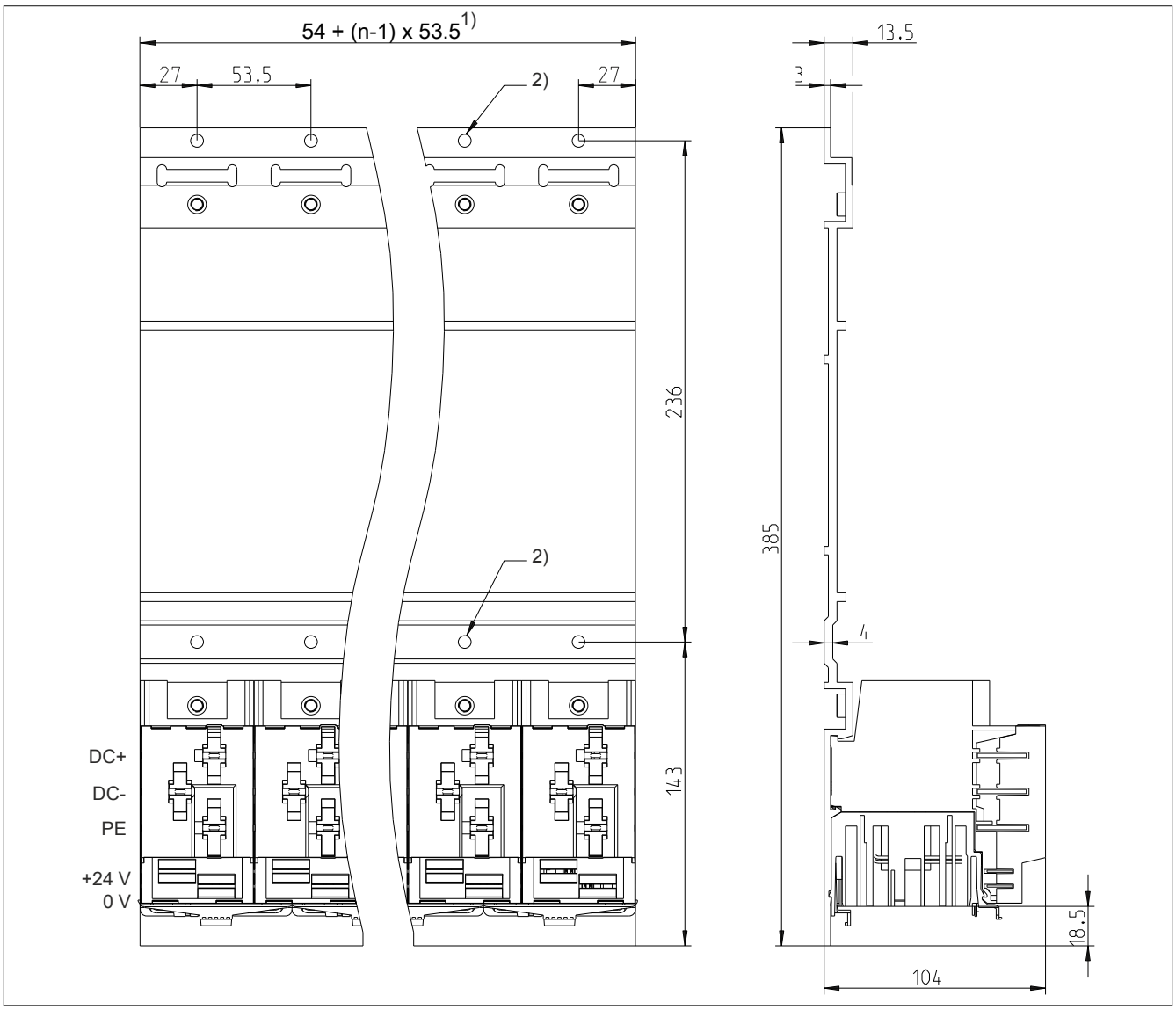


Figure 3: Dimension diagram and installation dimensions

1) n... Number of width units on the mounting plate
2) 2x n mounting holes ø 6 mm
The heads of the fastening screws are not permitted to exceed a height of 6 mm.