8B0M0160HF00.000-1

1 General information

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

2 Order data

Order number	Short description	Figure
	Feed-through mounting	
8B0M0160HF00.000-1	ACOPOSmulti mounting plate with backplane, 16 slots, AS, pass-through mounting, 75 mm² and 22 mm², complete	
	Required accessories	
	Fan modules	
8B0M0040HFF0.000-1	ACOPOSmulti fan module for mounting plate 8B0MxxxxH-F00.xxx-x and 8EMFxxxx000.0000-1	
	Optional accessories	
	I/O supply cable	
X67CA0P00.0002	Power connection cable, 4-pin, straight, 0.25 m	
X67CA0P20.0010	Power attachment cable, 4-pin, straight, 1.0 m	
X67CA0P20.0020	Power attachment cable, 2.0 m	
X67CA0P20.0050	Power attachment cable, 4-pin, straight, 5 m	

Table 1: 8B0M0160HF00.000-1 - Order data

Model number	Number of slots	Number of fan modules
8B0M0160HF00.000-1	16	4

Table 2: Number of required 8B0M0040HFF0.000-1 fan modules per mounting plate 8B0M

Information:

ACOPOSmulti 8B0MxxxxHF00.xxx-x mounting plates can only be used together with 8B0M0040HF-F0.000-1 fan modules!

For optimal availability of the ACOPOSmulti drive system, the 8B0M0040HFF0.000-1 fan modules must be switched on continuously.

3 Technical data

Order number	8B0M0160HF00.000-1
General information	
Number of slots	16
Cooling and mounting type	Pass-through mounting
Certifications	
CE	Yes
UKCA	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
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
Horizontal, face up	Yes
Standing horizontally	No
Installation elevation 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
Degree of protection per EN 60529	IP64 Fan module: IP54 (8B0M0040HFF0.000-1)
Ambient 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 properties	
Dimensions 5)	
Width	920 mm
Height	378 mm
Depth	14 mm
Weight	25.6 kg

Table 3: 8B0M0160HF00.000-1 - Technical data

1) Valid under the following conditions: 40°C ambient temperature, installation elevation <500 m above sea level.
2) Corresponds to the proportionate power consumption of the 8B0M0040HFF0.000-1 fan module.
3) Continuous operation of ACOPOSmulti mounting plates at an installation elevation of 500 m to 4000 m above sea level is possible when 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 from 40°C to max. 55°C is possible when taking the specified continuous power reductions into account.
5) The dimensions define the size of the mounting plate. Additional spacing above and below the backplanes must be taken into account for mounting, connections and air circulation.

4 Dimension diagram and installation dimensions

Information:

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

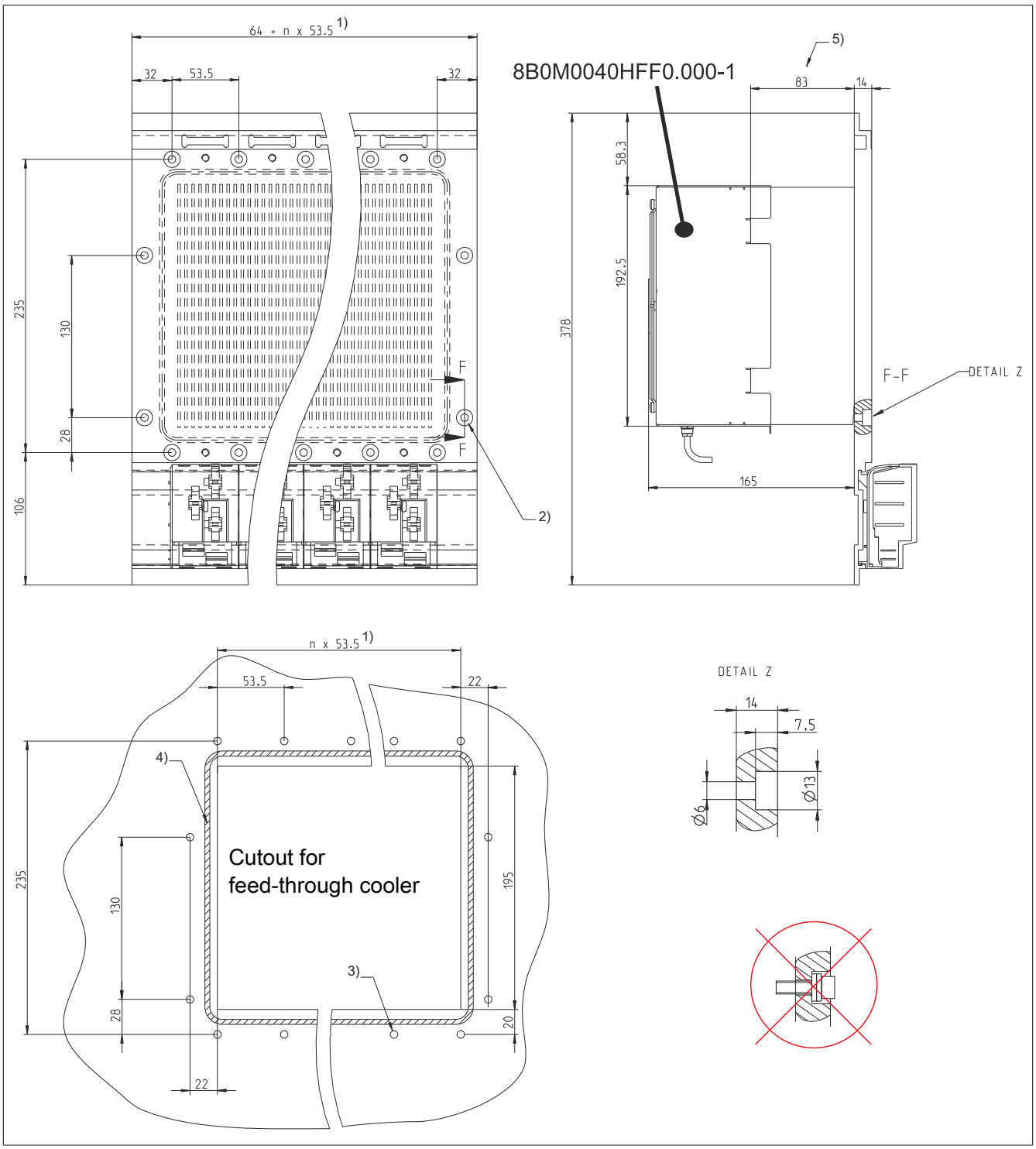

Figure 1: Dimension diagram and installation dimensions

1) n... Number of width units on the mounting plate
2) 6 + 2x n mounting holes ø 6 mm
The heads of the fastening screws are not permitted to exceed a height of 6 mm.
3) All drill holes 6 mm
4) Sealing surface
5) Fin depth of the feed-through heat sink without mounted fan 8B0M0040HFF0.000-1

Note:

When securing mounting plate 8B0MnnnnHF00.000-1, make sure that the screws are mounted on the backplane side such that they comply with IP65 protection requirements per EN 60529.

Information:

The fastening elements of the feed-through heat sink are not permitted to extend beyond the installation surface! This would prevent the ACOPOSmulti modules from being mounted to the feed-through cooler.