# 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

| Model number | Short description | Figure |
|---|---|---|
| | **Feed-through mounting** |   |
| 8B0M0160HF00.000-1 | ACOPOSmulti mounting plate with backplane, 16 slots, HV, feed-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, 0.2 m | |
| X67CA0P20.0010 | Power attachment cable, 1.0 m | |
| X67CA0P20.0020 | Power attachment cable, 2.0 m | |
| X67CA0P20.0050 | Power attachment cable, 5 m | |
| X67CA0P20.0150 | Power attachment cable, 15 m | |
| X67CA0P20.0500 | Power attachment cable, 50 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 at all times.**

# 3 Technical data

| Model number | 8B0M0160HF00.000-1 |
|---|---|
| **General information** | |
| Number of slots | 16 |
| Cooling and mounting type | Feed-through mounting |
| Certifications | |
| CE | Yes |
| UL | cULus E225616<br>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<br>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 for 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 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 Dimension diagram and installation dimensions

## Information:

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

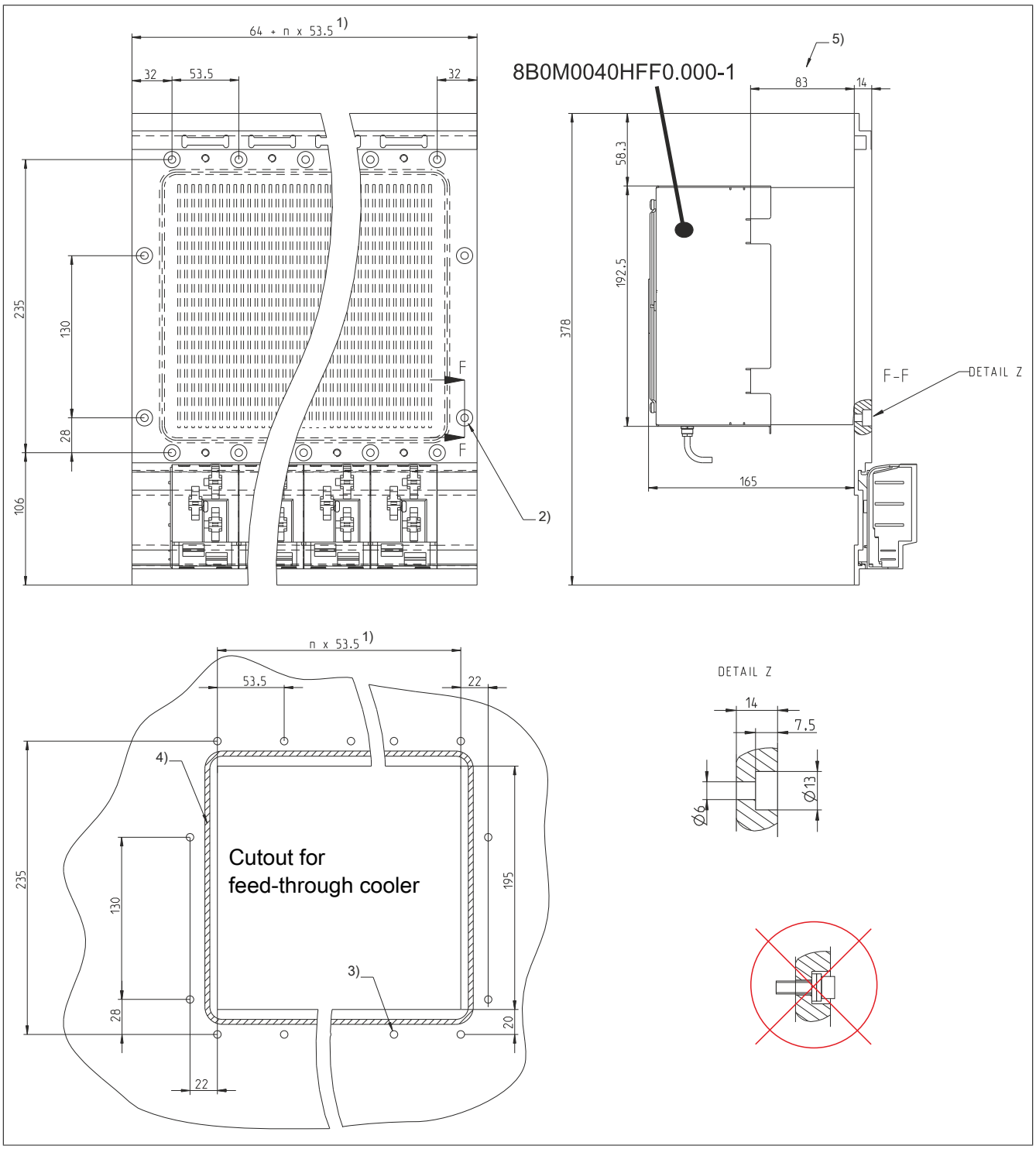


Figure 1: Dimension diagram and installation dimensions

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.**