

8B0M0200HC00.000-1

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 |
|--------------------|--|---|
| | Cold-plate mounting |  |
| 8B0M0200HC00.000-1 | ACOPOSmulti mounting plate with backplane, 20 slots, HV, cold plate mounting, 75 mm ² and 22 mm ² , complete | |
| | Optional accessories | |
| | Accessory sets | |
| 8BXW000.0000-00 | ACOPOSmulti accessory set: 2x fitting for mounting plate 8B0MxxxxHCxx.xxx-x and 8EMCxxx000.0000-1, angled | |
| 8BXW001.0000-00 | ACOPOSmulti accessory set: 2x fitting for mounting plate 8B0MxxxxHCxx.xxx-x and 8EMCxxx000.0000-1, straight | |

Table 1: 8B0M0200HC00.000-1 - Order data

3 Technical data

| Model number | 8B0M0200HC00.000-1 |
|---|---|
| General information | |
| Number of slots | 20 |
| Cooling and mounting method | Cold plate 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 mm ² |
| PE | 72 mm ² |
| 24 VDC auxiliary supply | |
| Voltage | 25 VDC ±1.6% |
| Continuous power ¹⁾ | 1500 W |

Table 2: 8B0M0200HC00.000-1 - Technical data

| Model number | 8B0M0200HC00.000-1 |
|---|---|
| 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 mm ² |
| 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 ²⁾ | 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 |
| Flow volume | |
| Minimum | 3 l/min ³⁾ |
| Maximum | 6 l/min ³⁾ |
| Pressure drop depending on flow volume | |
| 3 l/min | Typ. 0.3 bar |
| 6 l/min | Typ. 0.7 bar |
| Test pressure | 10 bar for 1 minute, air inside, water outside |
| Max. continuous pressure ⁴⁾ | 5 bar |
| Max. permissible return temperature | 60°C |
| Degree of protection per EN 60529 | IP20 |
| Environmental conditions | |
| Temperature | |
| Operation | |
| Nominal | 5 to 40°C |
| Maximum ⁵⁾ | 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 ⁶⁾ | |
| Width | 1110.5 mm |
| Height | 378 mm |
| Depth | 17 mm |
| Weight | 18.8 kg |

Table 2: 8B0M0200HC00.000-1 - Technical data

- Valid for the following conditions: 40°C ambient temperature, installation elevation <500 m above sea level.
- 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.
- Valid under the following conditions: Mounting plate with max. 27 slots and tap water as coolant. Values vary depending on the coolant and/or connection fitting being used!
- The requirements of the complete system (tubing, heat exchangers, recooling systems, etc.) as well as any necessary application-specific requirements must be taken into consideration.
- 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).
- 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).

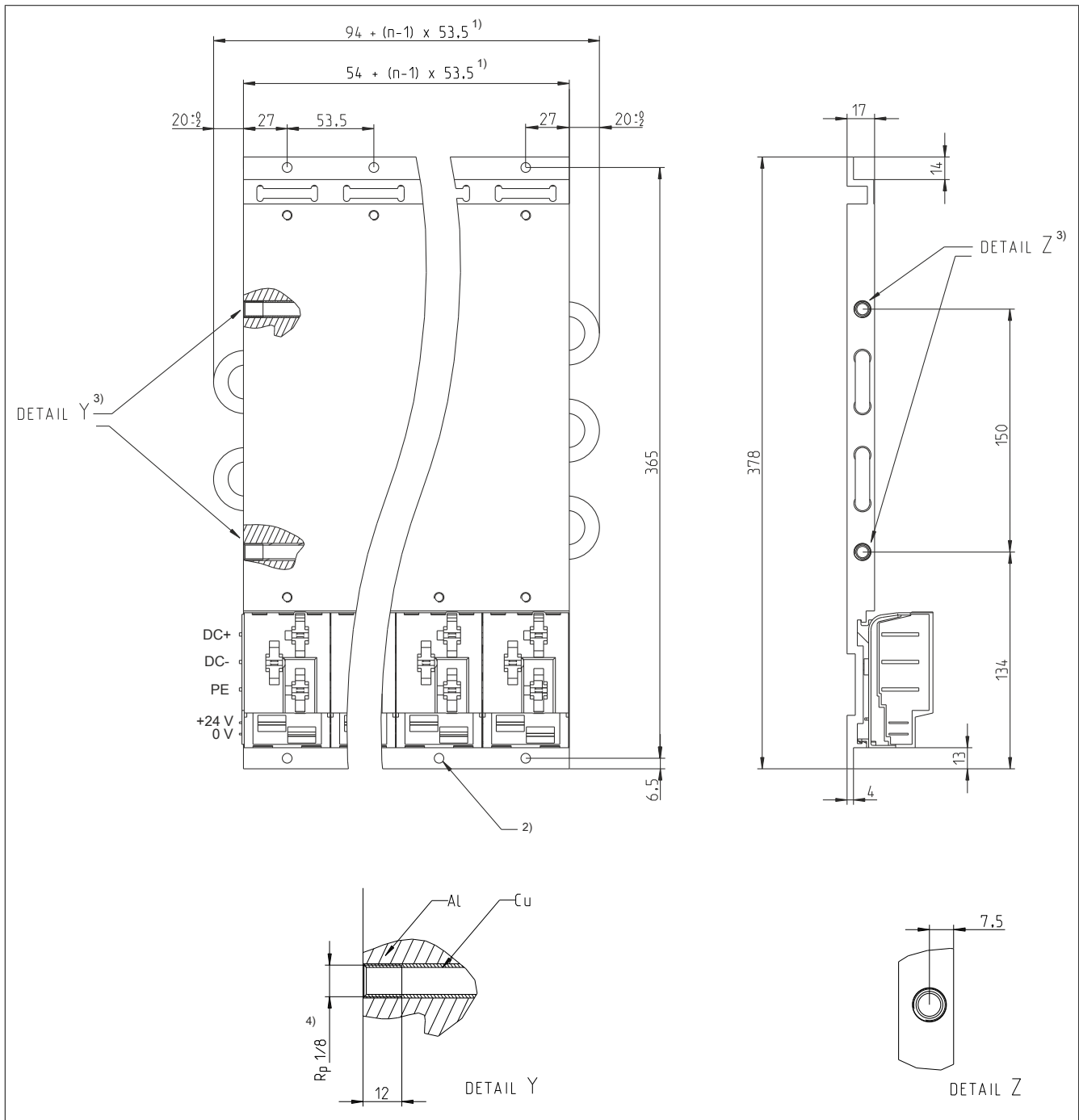


Figure 1: Dimension diagram and installation dimensions

- 1) n... Number of width units on the mounting plate
- 2) 2x n mounting holes \varnothing 6 mm
The heads of the fastening screws are not permitted to exceed a height of 6 mm.
- 3) The maximum tightening torque is 10 Nm.
- 4) A $1/8$ Rp thread is cut into the copper tube at the factory. Due to the mechanical construction (copper tube pressed in aluminum), the finished threads have a form similar to Rc $1/8$ per EN 10226-2.

Information:

Valves in cooling systems must in principle be thread-sealed with respect to the coolant. This must preferably be done using suitable liquid-sealing agents or metal-sealing functions. Suitable sealing agents are Teflon tape or LOCTITE 5331, for example.

Information:

B&R recommends using ACOPOSmulti 8B0MnnnnHC00.000-1 mounting plates with ACOPOSmulti 8BXW accessory sets (fittings with tapered R 1/8 Whitworth male pipe thread per EN 10226-1) for the water connections for inlet flow and return flow.

Caution!

B&R has tested and approved the production of the water connection for inlet flow and return flow of 8B0MnnnnHC00.000-1 mounting plates with fittings with tapered R 1/8 Whitworth male pipe thread per EN 10226-1.

The use of other fittings (e.g. with cylindrical external pipe thread) can result in increased effort in sealing the water connections and is therefore the responsibility of the user.