8B0K1650HC00.000-1

1 General information

- Serves to buffer the DC bus
- Seamless integration in the ACOPOSmulti drive system
- Charging circuit

2 Order data

Model number	Short description	Figure
	Cold plate or feed-through mounting	
8B0K1650HC00.000-1	ACOPOSmulti capacitor module, 1650 µF, HV, cold plate or feed-through mounting	
	Optional accessories	
	Fan modules	
8BXF001.0000-00	ACOPOSmulti fan module, replacement fan for ACOPOSmulti modules (8BxP/8B0C/8BVI/8BVE/8B0K)	

Table 1: 8B0K1650HC00.000-1 - Order data

3 Technical data

Model number	8B0K1650HC00.000-1
General information	
Cooling and mounting method	Cold plate or feed-through mounting
Certifications	
CE	Yes
KC	Yes
UL	cULus E225616 Power conversion equipment
DC bus connection	
Voltage	
Nominal	750 VDC
Power dissipation at max. device power	In preparation
DC bus capacitance	1650 µF
Design	ACOPOSmulti backplane
24 VDC supply	
Input voltage	25 VDC +1.6% / -20%
Max. power consumption	3 W
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 [1]	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

Table 2: 8B0K1650HC00.000-1 - Technical data

Model number	8B0K1650HC00.000-1
Environmental conditions	
Temperature	
Operation	
Nominal	5 to 40°C
Maximum [2]	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 [3]	
Width	53 mm
Height	317 mm
Depth	
Cold plate	212 mm
Feed-through mounting	209 mm
Weight	Approx. 2.7 kg
Module width	1

Table 2: 8B0K1650HC00.000-1 - Technical data

1) Continuous operation at an installation elevation of 500 m to 4,000 m above sea level is possible taking the specified reduction of continuous current into account. Requirements that go beyond this must be arranged with B&R.
2) Continuous operation at an ambient temperature of 40°C to max. 55°C is possible taking the specified reduction of continuous torque into account, but this results in premature aging of components.
3) 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.

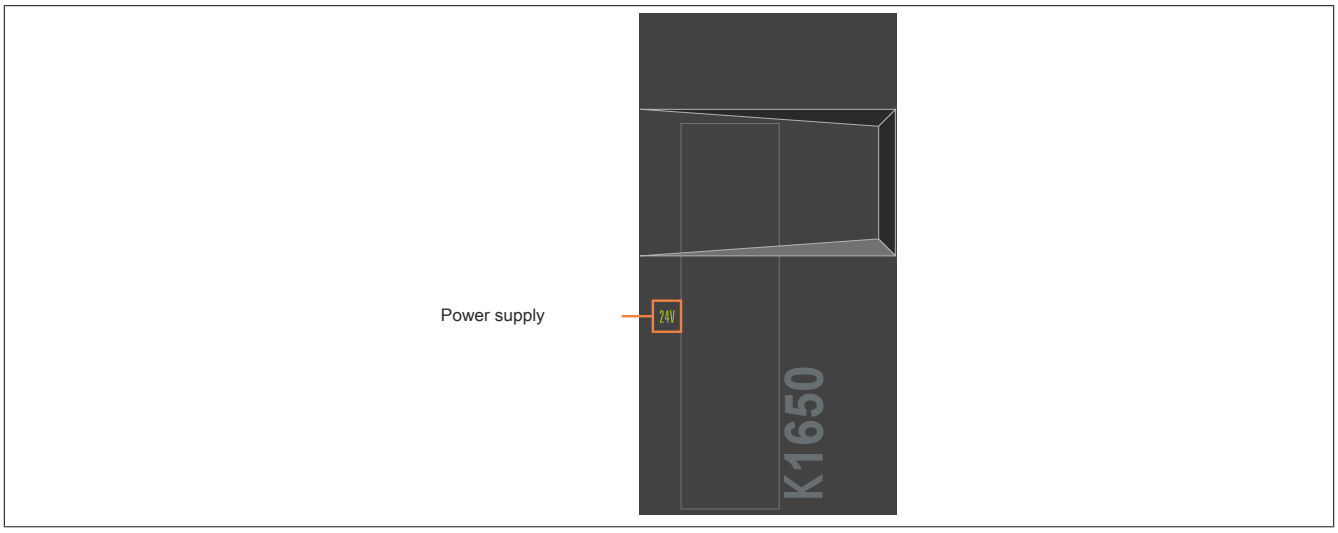

Figure 1: Status indicator groups for 8B0K capacitor modules without integrated charging circuit

4.1 LED status indicators

Status indicator group	Label	Color	Function	Description
Power supply	24 V	Green	24 V OK	The 24 V power supply of the module is within the tolerance range.

Table 3: 8B0K capacitor modules - LED status indicators

5 Dimension diagram and installation dimensions

5.1 Cold plate

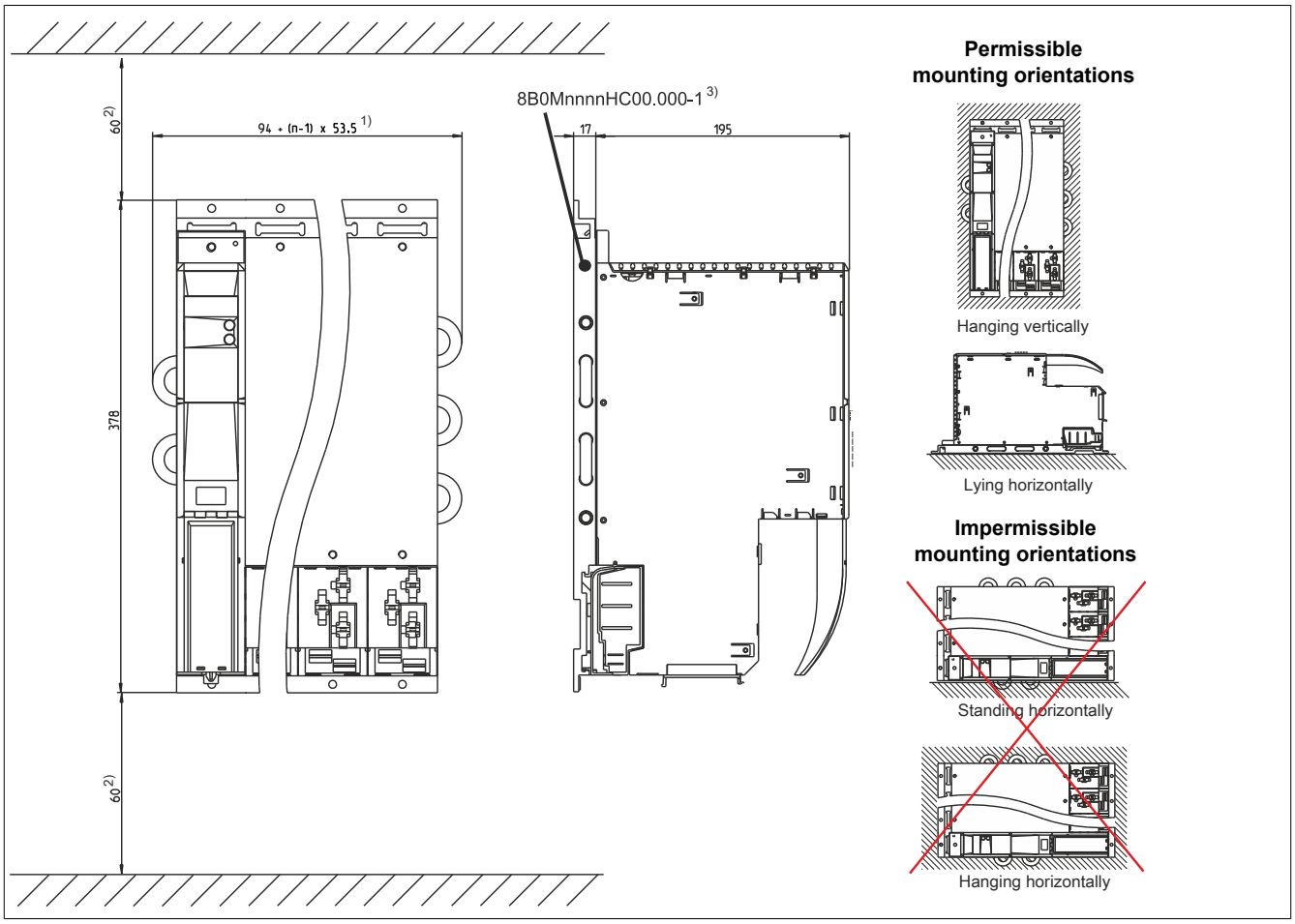

Figure 2: Cold plate - Dimension diagram and installation dimensions

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.
3) nnnn indicates the number of slots (e.g. 0160 refers to 16 slots).

Information:

When mounting ACOPOSmulti modules for cold-plate or feed-through mounting, be sure not to scratch the backplane. This can impair thermal dissipation to the mounting plate.

Do not set down ACOPOSmulti modules for cold-plate or feed-through mounting on their bottom side. Doing so could break the clips that hold the unit is fan. Broken clips make it more difficult to replace the fans later on.

5.2 Feed-through mounting

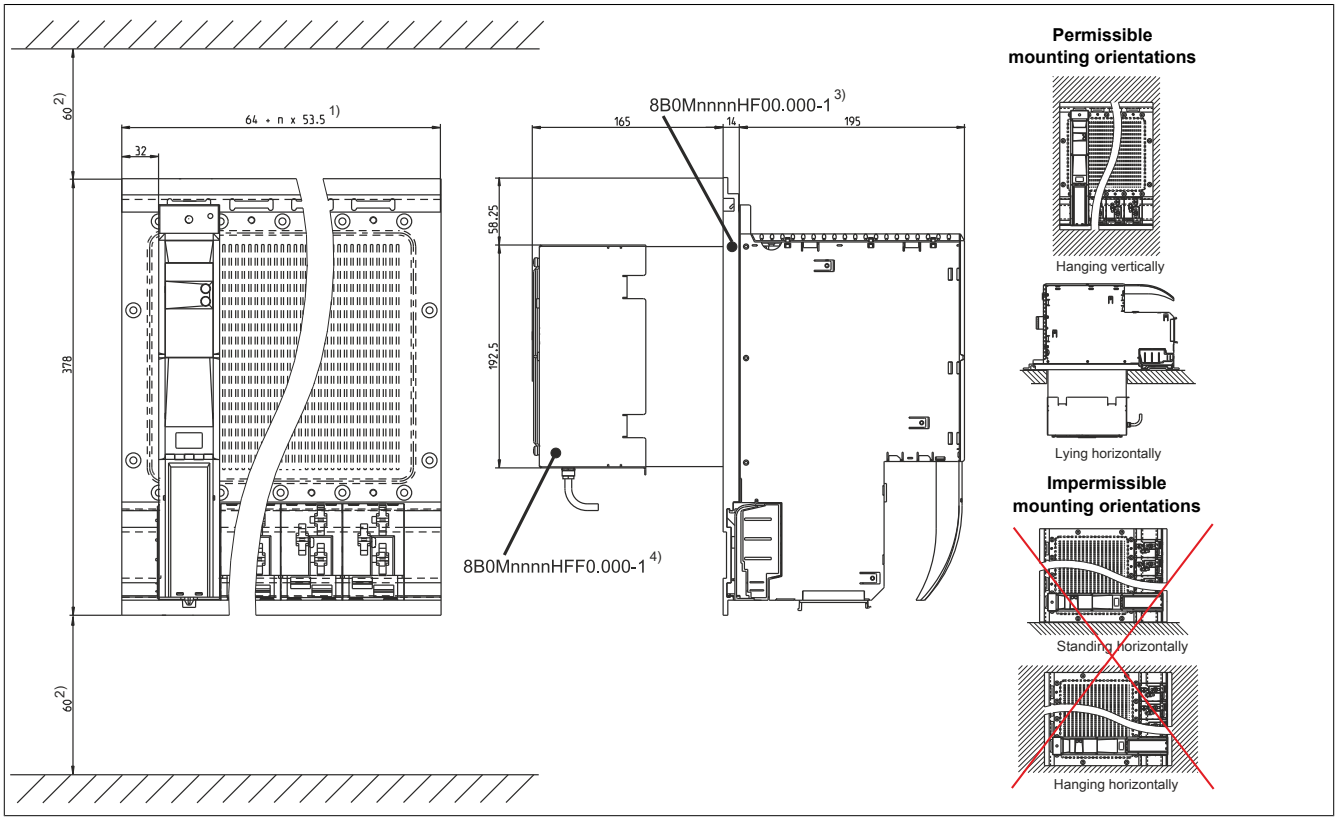

Figure 3: Feed-through mounting - Dimension diagram and installation dimensions

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.
3) nnnn indicates the number of slots (e.g. 0160 refers to 16 slots).
4) For sufficient air circulation, a clearance of at least 100 mm must be provided around the fan module.

Information:

When mounting ACOPOSmulti modules for cold-plate or feed-through mounting, be sure not to scratch the backplane. This can impair thermal dissipation to the mounting plate.

Do not set down ACOPOSmulti modules for cold-plate or feed-through mounting on their bottom side. Doing so could break the clips that hold the unit is fan. Broken clips make it more difficult to replace the fans later on.