

# 8B0M0140HW00.000-1

## 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                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    | <b>Wall mounting</b>                                                                                                         |                                                                                     |
| 8B0M0140HW00.000-1 | ACOPOSmulti mounting plate with backplane, 14 slots, AS, wall mounting, 75 mm <sup>2</sup> and 22 mm <sup>2</sup> , complete |  |
|                    | <b>Optional accessories</b>                                                                                                  |                                                                                     |
|                    | <b>Fan modules</b>                                                                                                           |                                                                                     |
| 8BXF002.0000-00    | ACOPOSmulti fan module, replacement fan for mounting plate with backplane module, wall mounting (8B0MxxxxHWxx.xxx-x)         |                                                                                     |

Table 1: 8B0M0140HW00.000-1 - Order data

| Model number       | Number of slots | Number of fan modules |
|--------------------|-----------------|-----------------------|
| 8B0M0140HW00.000-1 | 14              | 10                    |

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

## 3 Technical data

| Order number                                                      | 8B0M0140HW00.000-1         |
|-------------------------------------------------------------------|----------------------------|
| <b>General information</b>                                        |                            |
| Number of slots                                                   | 14                         |
| Cooling and mounting type                                         | Wall mounting              |
| Certifications                                                    |                            |
| CE                                                                | Yes                        |
| UKCA                                                              | Yes                        |
| UL                                                                | cULus E225616              |
|                                                                   | Power conversion equipment |
| <b>DC bus connection</b>                                          |                            |
| Voltage                                                           |                            |
| Nominal                                                           | 750 VDC                    |
| Continuous power <sup>1)</sup>                                    | 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 <sup>2</sup>         |
| PE                                                                | 72 mm <sup>2</sup>         |

Table 3: 8B0M0140HW00.000-1 - Technical data

| Order number                                                      | 8B0M0140HW00.000-1                                |
|-------------------------------------------------------------------|---------------------------------------------------|
| <b>24 VDC auxiliary supply</b>                                    |                                                   |
| Voltage                                                           | 25 VDC $\pm 1.6\%$                                |
| Continuous power <sup>1)</sup>                                    | 1500 W                                            |
| Max. power consumption per slot ( $P_{Fan8B0M...}$ )              | 8.25 W <sup>2)</sup>                              |
| 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 <sup>2</sup>                              |
| <b>Operating conditions</b>                                       |                                                   |
| Permissible mounting orientations                                 |                                                   |
| Hanging vertically                                                | Yes                                               |
| Horizontal, face up                                               | Yes                                               |
| Standing horizontally                                             | No                                                |
| Installation elevation above sea level                            |                                                   |
| Nominal                                                           | 0 to 500 m                                        |
| Maximum <sup>3)</sup>                                             | 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                                              |
| <b>Ambient conditions</b>                                         |                                                   |
| Temperature                                                       |                                                   |
| Operation                                                         |                                                   |
| Nominal                                                           | 5 to 40°C                                         |
| Maximum <sup>4)</sup>                                             | 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                                  |
| <b>Mechanical properties</b>                                      |                                                   |
| Dimensions <sup>5)</sup>                                          |                                                   |
| Width                                                             | 749 mm                                            |
| Height                                                            | 385 mm                                            |
| Depth                                                             | 13.5 mm                                           |
| Weight                                                            | 7.4 kg                                            |

Table 3: 8B0M0140HW00.000-1 - 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 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 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 Status LED

### Information:

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

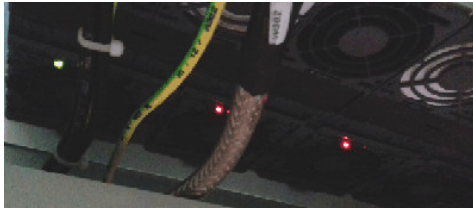


Figure 1: Fan LED 8BXF002.0000-00

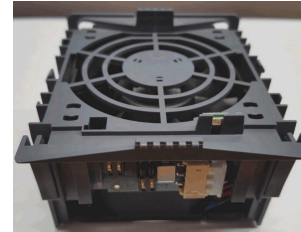


Figure 2: Fan module 8BXF002.0000-00

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

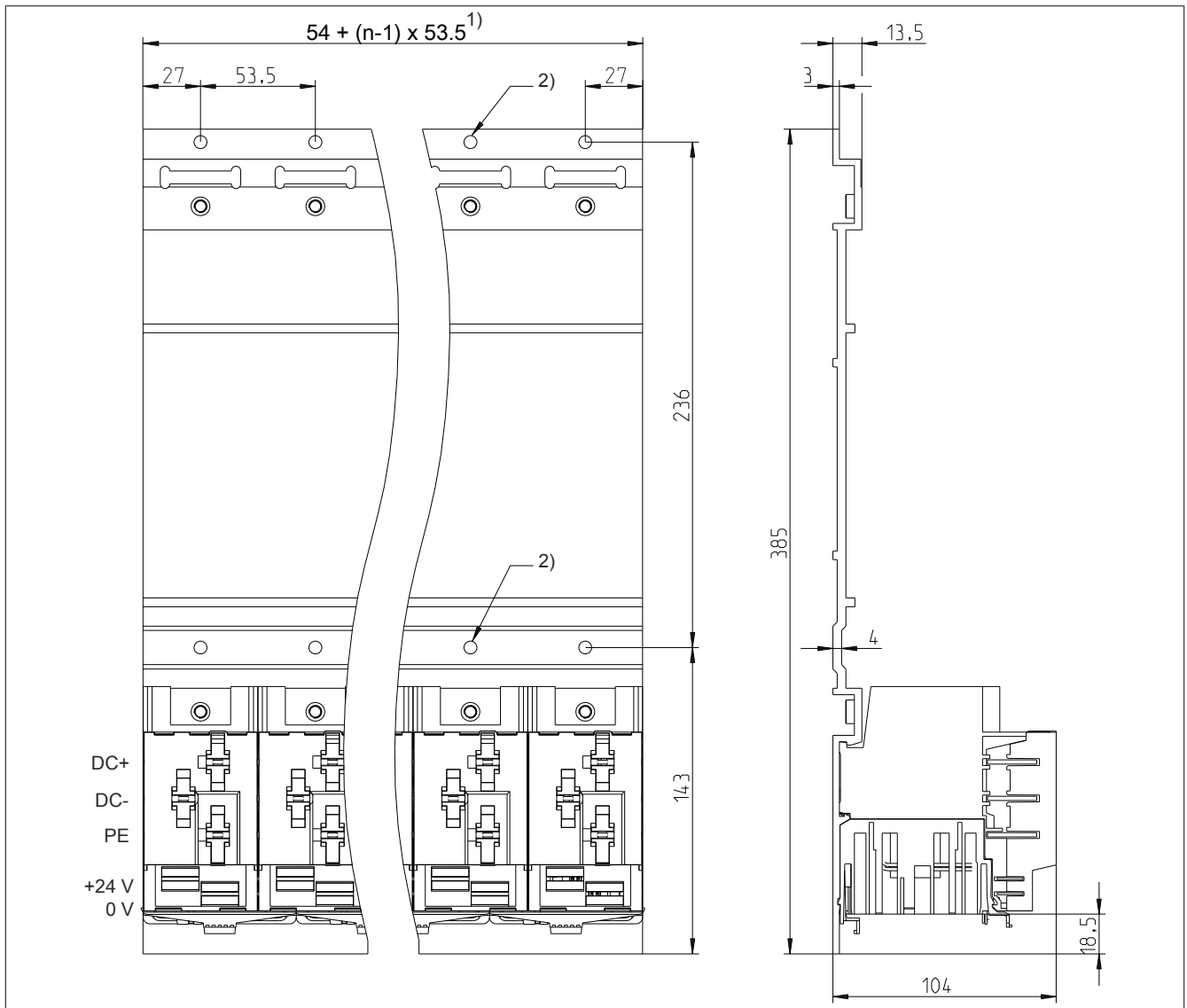


Figure 3: Dimension diagram and installation dimensions

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