8B0M0040HFF0.000-1

1 General information

The fan module is used to cool ACOPOSmulti drive systems and can be mounted on 8B0MxxxxHFxx.xxx-x mounting plates.

Information:

ACOPOSmulti 8B0MxxxxHF00.xxx-x mounting plates can only be used together with 8B0M0040HFF0.000-1 fan modules!

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

2 Order data

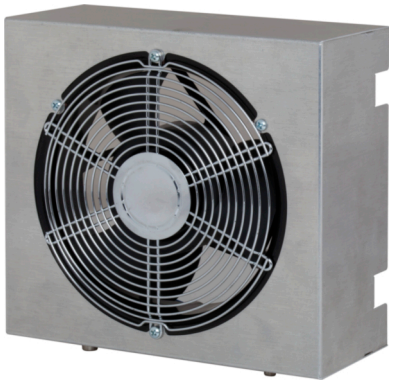
Model number	Short description	Figure
	Fan modules	
8B0M0040HFF0.000-1	ACOPOSmulti fan module for mounting plate 8B0MxxxxHF00.xxx-x and 8EMFxxxx000.0000-1	

Table 1: 8B0M0040HFF0.000-1 - Order data

Model number	Number of slots	Number of fan modules
8B0M0040HF00.000-1	4	1
8B0M0080HF00.000-1	8	2
8B0M0120HF00.000-1	12	3
8B0M0160HF00.000-1	16	4
8B0M0200HF00.000-1	20	5

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

Information:

X67CA0P10 and X67CA0P20/X67CA0P30 I/O power supply cables can be used to cable 8B0M0040HFF0.000-1 fan modules. For details, see section "Wiring".

3 Technical data

Model number	8B0M0040HFF0.000-1
General information	
Short description	ACOPOSmulti fan module for mounting plate 8B0MxxxxHF00.xxx-x
Certifications	
CE	Yes
UL	cULus E225616 Power conversion equipment
24 VDC supply	
Input voltage	24 VDC +15% / -25%
Connection	1x 4-pin female M8 connector 1x 4-pin male M8 connector
Power consumption	32 W
Operating conditions	
Degree of protection per EN 60529	IP54 when connected
Environmental conditions	
Temperature	
Operation	
Nominal	5 to 40°C
Maximum	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	
Volume flow	325 m³/h @ 0 Pa 210 Pa @ 0 m³/h 275 m³/h @ 120 Pa
Operating noise	61 dB(A)
Service life	
At 40°C	80,000 h
Dimensions	
Width	200 mm
Height	200 mm
Depth	90 mm
Weight	1.2 kg

Table 3: 8B0M0040HFF0.000-1 - Technical data

4 Wiring

4.1 8B0M0040HFF0.000-1

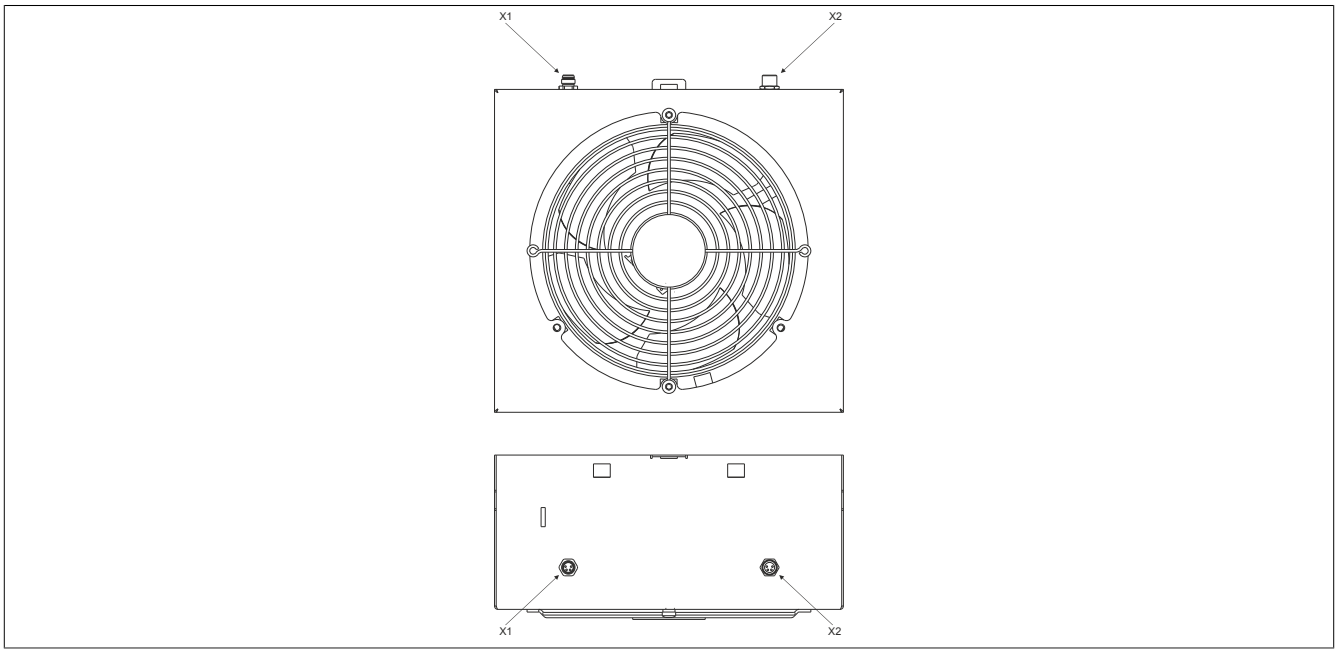


Figure 1: 8B0M0040HFF0.000-1 - Pinout overview

4.1.1 Connector X1 - Pinout

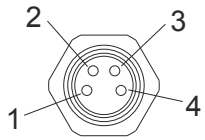
X1	Pin	Description	Function
	1	24 V	Fan power supply +24 VDC
	2	24 V	Fan power supply +24 VDC
	3	GND	Fan power supply GND
	4	GND	Fan power supply GND

Table 4: Connector X1 - Pinout

4.1.2 Connector X2 - Pinout

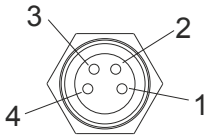
X2	Pin	Description	Function
	1	24 V	Fan power supply +24 VDC
	2	24 V	Fan power supply +24 VDC
	3	GND	Fan power supply GND
	4	GND	Fan power supply GND

Table 5: Connector X2 - Pinout

4.1.3 Wiring example

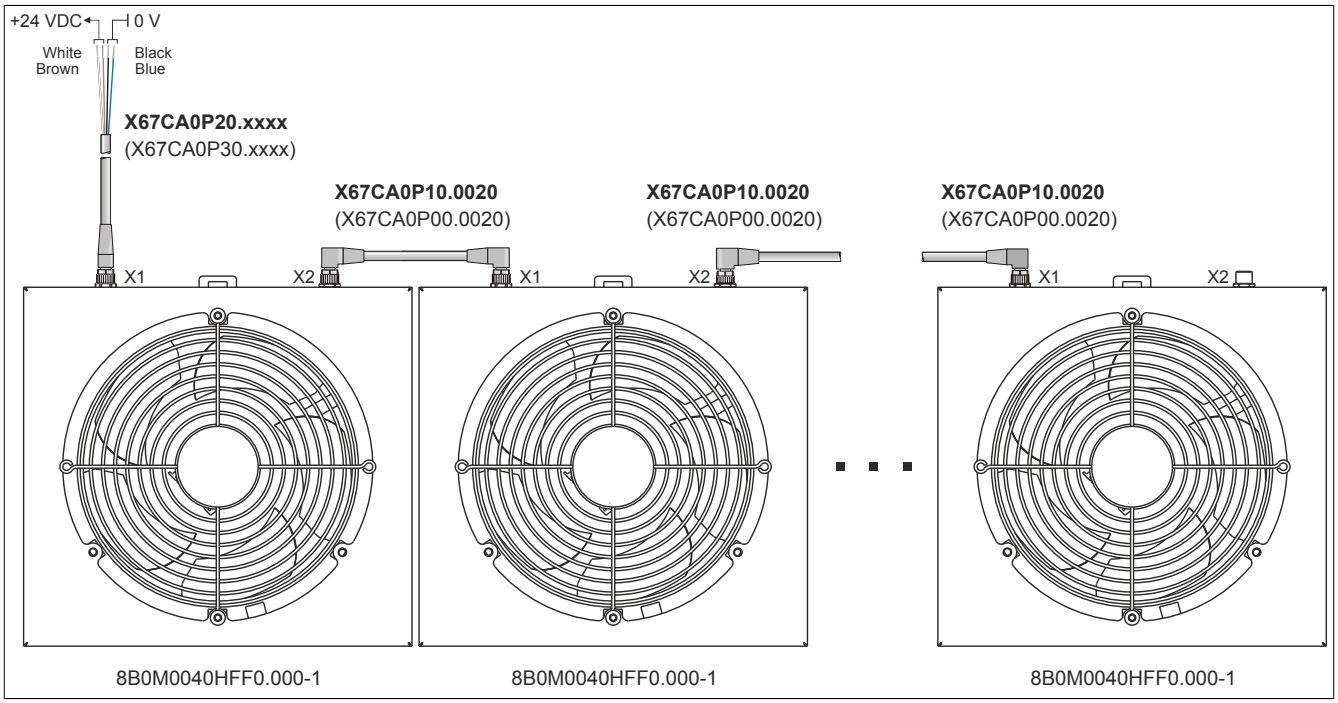


Figure 2: 8B0M0040HFF0.000-1 - Wiring example

Information:

Up to 5 8B0M0040HFF0.000-1 fan modules are permitted to be connected in parallel.

Information:

The 24 VDC power supply for 8B0M0040HFF0.000-1 fan modules can be supplied via the X3 connector on an 8B0C ACOPOSmulti auxiliary supply module.

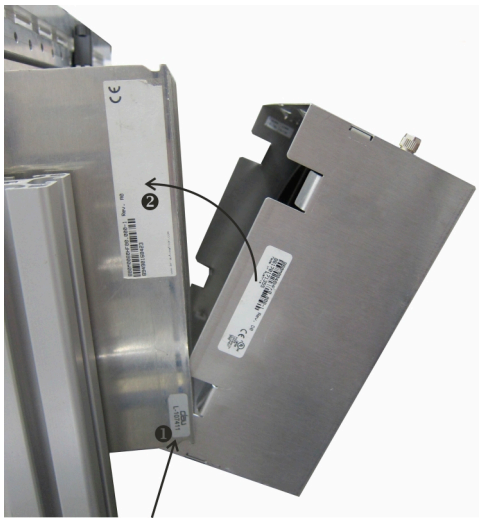
5 Installing the 8B0M0040HFF0.000-00 fan module

Procedure:

1. Disconnect the ACOPOSmulti drive system from the power system and secure it against being switched on again.

   > ## Danger!
   >
   > **Before starting work, disconnect the power supply and wait 5 minutes to ensure that the DC bus of the ACOPOSmulti drive system has discharged. Observe regulations!**

2. Slide the bottom of the fan module at position (❶) between the first two plates on the heat sink of the 8B0MxxxxHF mounting plate and then insert the top as shown in (❷) until the snap-fit connectors click into place.



3. Repeat step 2 until all fan modules have been installed. The following fan modules must be placed between the next available plates on the 8B0MxxxxHF mounting plate.
4. Cable all fan modules (see section "Wiring example" on page 4).

6 Replacing the 8B0M0040HFF0.000-00 fan module

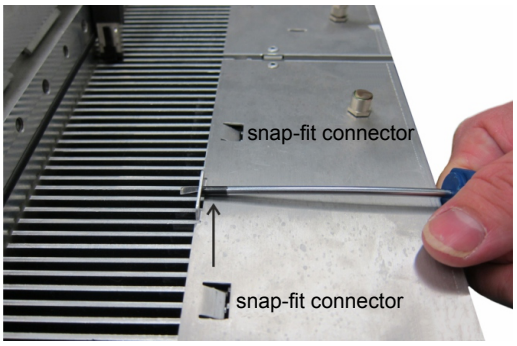
Procedure:

Required tools: Flat-blade screwdriver

1. Disconnect the ACOPOSmulti drive system from the power system and secure it against being switched on again.

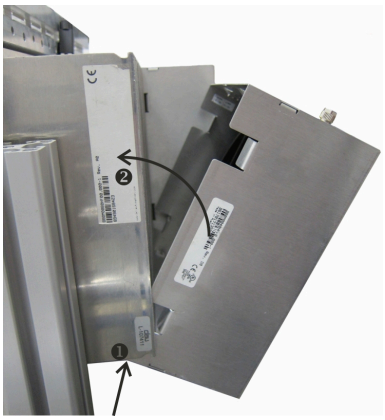
> ## Danger!
>
> **Before starting work, disconnect the power supply and wait 5 minutes to ensure that the DC bus of the ACOPOSmulti drive system has discharged. Observe regulations!**

2. Disconnect the connectors from the X1 and X2 connectors on the fan module.
3. The fan module is snapped into the 8B0MxxxxHF mounting plate using two snap-fit connectors. Use a flat-blade screwdriver to push up the clip marked with the error to loosen the snap-fit connectors. While doing so, carefully tip the fan module backwards and remove from the mounting plate's heat sink.





4. Slide the bottom of the new fan module at position (❶) between the plates on the heat sink of the 8B0MxxxxHF mounting plate and then insert the top on the mounting plate's heat sink as shown in (❷) until the snap-fit connectors click into place.



5. Repeat steps 2 to 4 for all other fan modules that need to be replaced.
6. Cable all replaced fan modules (see section "Wiring example" on page 4).

Information:

8B0M0040HFF0.000-00 fan modules have an average service life of approx. 80,000 h. B&R recommends replacing all fan modules on an 8B0MxxxxHF00.xxx-x mounting plate at the same time.