



B 9361: Assembly Kit

Additional power supply 5 V for Systems H51q

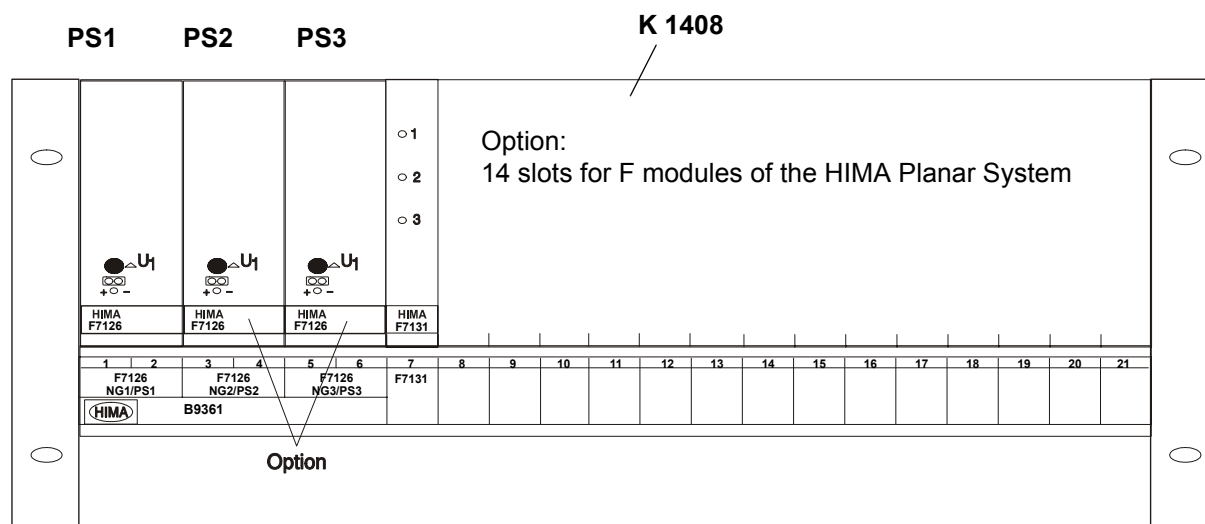


Figure 1: Front view

1 Parts of the B 9361 assembly kit

- 1 x K 1408 central rack, 5 units high, 19 inches, with integrated cable tray
- additional modules on the rear
 - 3 x Z 6011 decoupling and fusing to feed the power supply modules
 - 1 x Z 6012 fan with fan run monitoring and fuse monitoring
 - 2 x Z 6013 decoupling and fusing of the supply voltage for Z 6012

include the modules:

- 1 x F 7126 power supply module 24 V / 5 V, 10 A (PS1)
- 1 x F 7131 power supply monitoring module
- 14 socket connectors to install standard (F type) modules of the HIMA Planar System

Modules for option (separate order):

- 2 x F 7126 power supply module 24 V/5 V (PS2, PS3). The 5 V outputs of the power supply modules are switched in parallel
- 1...14 x Standard (F type) modules of the HIMA Planar System

The additional power supply (loadable up to 18 A) will be used if the power supply modules built-in in the central rack are not sufficient to supply the 5 V circuits (i.e. $I > 18$ A for 3 power supply modules F 7126 in a redundant control). For the accurate current consumption for each module refer to the appertaining data sheets.

The 5 V circuits of the power supply modules in the central rack and in the additional power supply should not be switched in parallel but the GND of both power supplies has to be connected together. Availability is present because 2 of 3 power supply modules are able to guarantee the 5 V supply.

2 Wiring of the assembly kit

Wirings to be done by the user (refer to "Assembly kit, wiring diagram"):

2.1 Supply 24 VDC

Connection	Wire and connection	Fusing	Use
XG.21/22/23:2 (L+)	RD 2.5 mm ² , Faston 6.3 x 0.8	max. 16 A gL	PS1...PS3
XG.21/22/23:1 (L-)	BK 2.5 mm ² , Faston 6.3 x 0.8		Reference pole
RD = Color code red BK = Color code black			

Table 1: Supply 24 VDC

2.2 Output 5 VDC

Connection	Wire and connection	Use
XG.2: +5 V	YE 2 x 2.5 mm ² , Faston 6.3 x 0.8**	Supply I/O subrack (B 9302)
XG.3: GND	GN 2 x 2.5 mm ² , Faston 6.3 x 0.8**	Supply I/O subrack (B 9302), to be connected with the GND of the central rack
GN = Color code green YE = Color code yellow		

Table 2: Output 5 VDC

** for distances > 2 m: wire cross section 6 mm²

2.3 Output 24 VDC

Connection	Wire and connection	Use
XG.24:2 (L+)	RD 1.5 mm ² , Faston 6.3 x 0.8	Supply fuse monitoring and IO-CON in the I/O subrack
XG.25:2 (L+)	RD 1.5 mm ² , Faston 6.3 x 0.8	Supply fuse monitoring and IO-CON in I/O subrack for 2nd I/O bus (B 5222-2, B 5223-2, B 5232-2 and B 5233-2 only)
RD = Color code red		

Table 3: Output 24 VDC

2.4 Connection of the monitoring loop (for fuses and fans)

Connection	Wire and connection	Fusing	Use
XG.26:4/5/6	GY 0.5 mm ² , Faston 2.8 x 0.8	max. 4 A slow blow	Floating NO/NC contact for sig- nalling
GY = Color code gray			

Table 4: Connection of the monitoring loop (for fuses and fans)

2.5 Internal fuses

Position	Size	Dimension	HIMA part no.
Z 6011	4 A slow blow	5 x 20 mm	57 0174409
Z 6013	1.6 A slow blow	5 x 20 mm	57 0174169

Table 5: Internal fuses

2.6 Earthing



With installation of the assembly kit a conductive connection to the frame or a separate earth connection has to be installed according to the EMC requirements.

Connection PE earth: Faston 6.3 x 0.8 mm.

Pay attention for the manufacturers information concerning detaching and replugging of the Faston connectors!

2.7 Connections on the rear

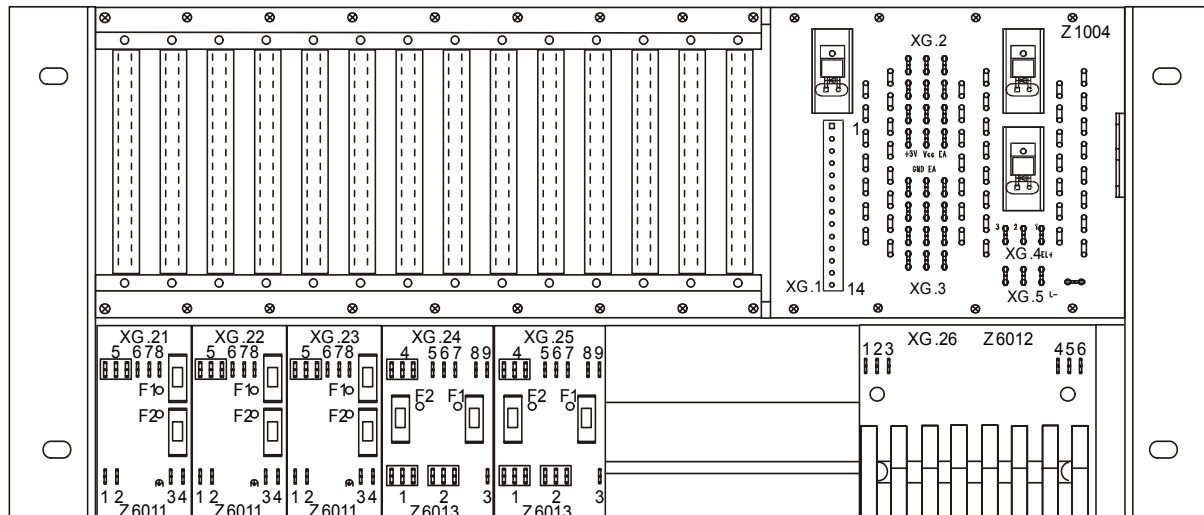


Figure 2: Connections on the rear of the additional power supply subrack K 1408

Connections on the rear of the additional power supply subrack K 1408 (see also assembly kit, wiring diagram):

2.7.1 Wiring ex works

XG .4	Feeding L+ (24 V) for power supply module F 7126
XG .5	Feeding L- (24 V) for power supply module F 7126
XG. 26	Connections for Z 6012: fan with fan run monitoring and fuse monitoring
XG .26: 2, 3	Power supply for fans
XG .26: 1	Wire for fuse monitoring
XG .26: 4, 5 ,6	Floating NO/NC contact for signalling of fuse and fan monitoring

2.7.2 Wiring by customer

XG .1:9-11	Connections for monitoring of the power supplies by power supply monitoring module F 7131
XG .2	Output + 5 V (supply of I/O subrack B 9302)
XG .3	Output GND (supply of I/O subrack B 9302, connection to GND of central subrack)
XG .21, XG .22, XG .23	Connections for Z 6011 (decoupling and fusing to feed the power supply modules)
XG .24, XG .25	Connections for Z 6013: decoupling and fusing of the supply voltage for Z 6012 and feeding of the coupling module F 7553 in I/O subrack
	XG .24: 1st I/O bus
	XG .25: 2nd I/O bus

2.8 Assembly kit, wiring diagram

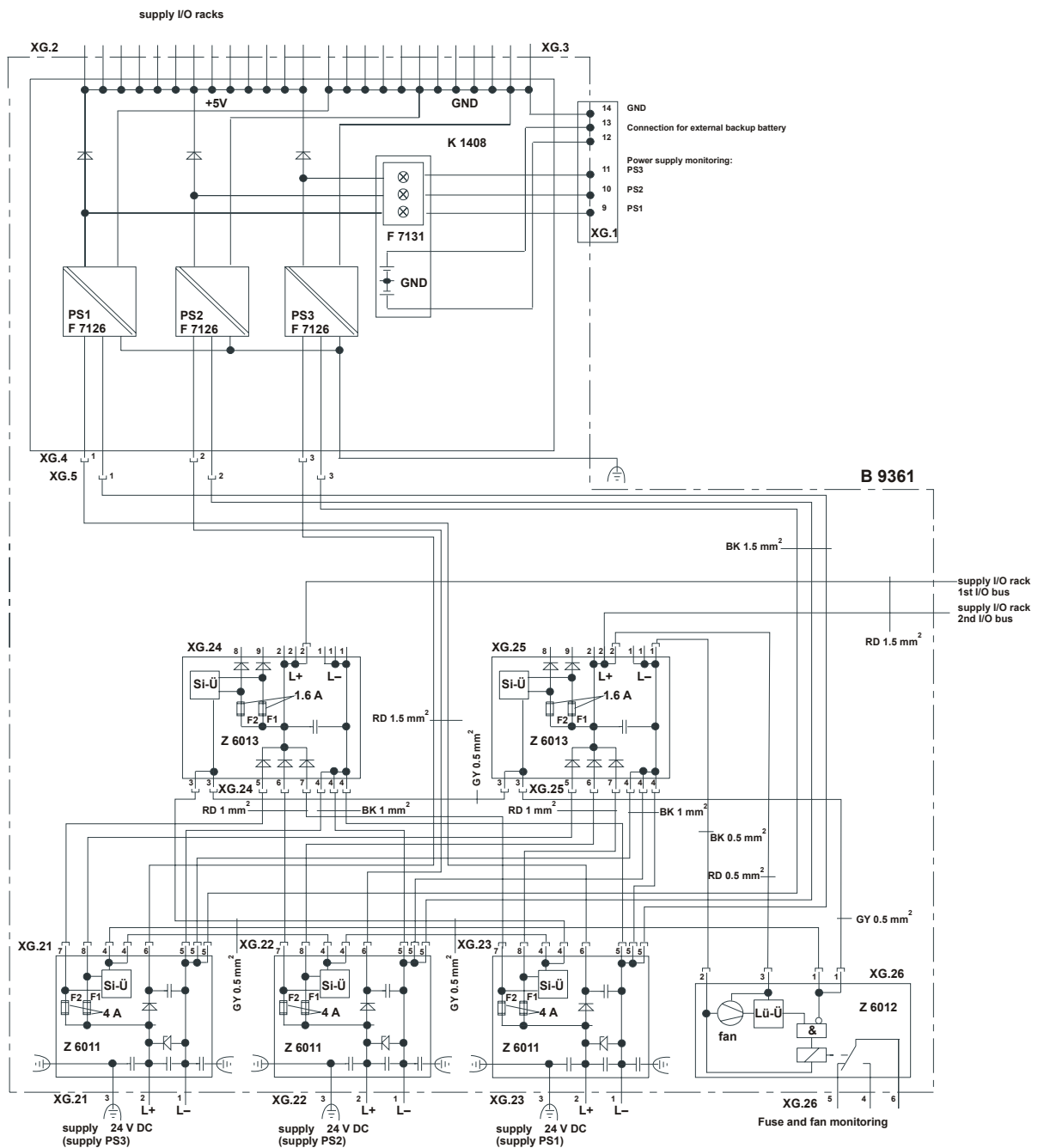


Figure 3: Assembly kit, wiring diagram

3 Side view B 9361 assembly kit

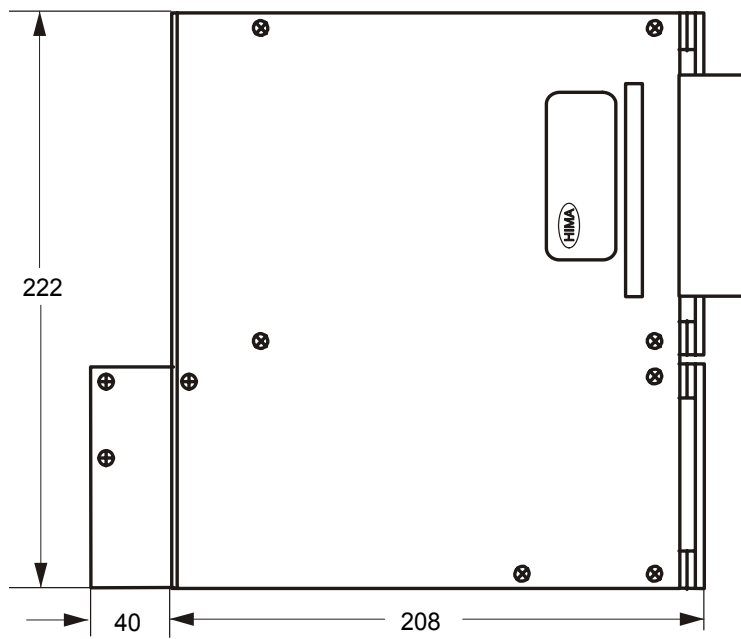


Figure 4: Side view