



K 7212: Fusing and current distribution

- For SELV and PELV
- Redundant feeding of up to 35 A total current
- With 2 decoupling diodes and 2 Z 6015 network filters
- With fuse protection of up to 12 individual circuits with circuit breakers (manufacturer E-T-A[®])

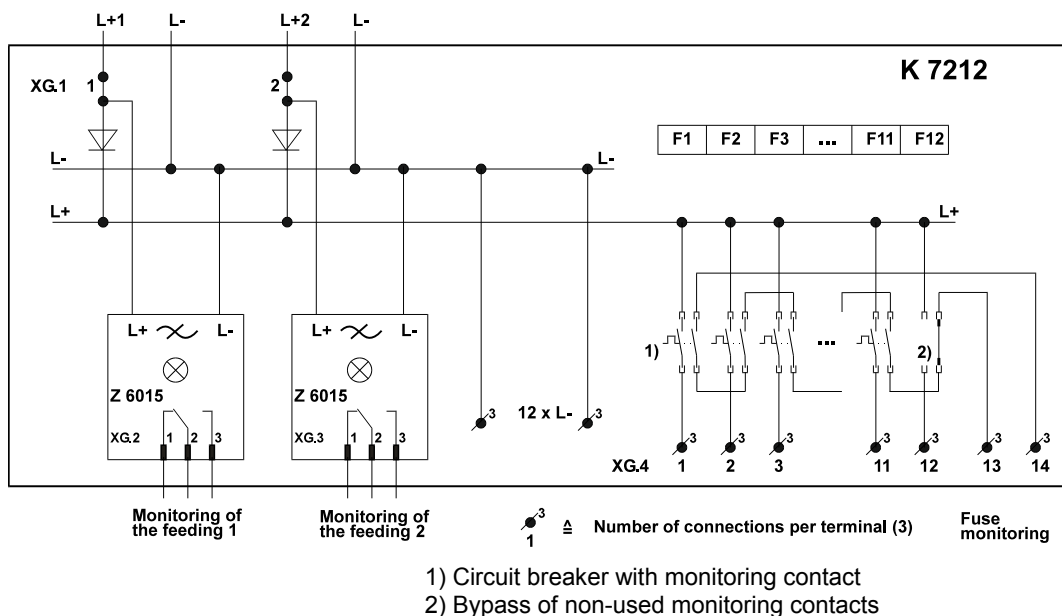


Figure 1: Wiring Diagram

Structure:

On the front side: heat sink with 2 decoupling diodes; behind the heat sink, mounting plate for up to 12 circuit breakers (with monitoring). On the rear side: 2 Z 6015 network filters and connector panel. Jumpers are used to bypass the monitoring of non-used circuit breaker slots.

Each network filter is equipped with a monitoring relay with LED for the feeding. Potential-free contacts are used to report voltage drops.

Installation Note:

Because of the network filter, install the K 7212 as close as possible to the cable inlet into the cabinet. If supply lines > 0.5 m are required in the control cabinet, a shielded 2 x 6 mm² supply line (HIMA part. no. 4100001) must be used.

Total current	35 A max.
Operating voltage	24 VDC, SELV or PELV
External fuse	35 A max.
Power dissipation	35 W max.
Dimensions	19 inches, 2 RU
Installation depth	270 mm
Weight	3.25 kg

Diode Data (Type SKKE81/04, Manufacturer: Semikron):

Conducting state current 0.85 V typ.

Preferred Type of Circuit Breaker (not included within the scope of delivery of the K 7212):

Nominal current	Manufacturer	Type	HIMA part no.
4 A	E-T-A®	2210-S211-P1T2-H111 4 A	57 0350040
16 A	E-T-A®	2210-S211-P1T2-H111 16 A	57 0350160

Table 1: Preferred Type of Circuit Breakers

For further details refer to the E-T-A® data sheet.

Terminals and Wiring:

Terminal	Max. wire cross section
XG.1:1, XG.1:2	16 mm ²
Feeding L-	16 mm ²
Distribution L-	4 mm ²
XG.4: 1 - 14	2.5 mm ²
XG.2 / XG.3	Flat connector 6.3 x 0.8 on Z 6015

Table 2: Terminals and Wiring

Accessories:

Accessories supplied by HIMA:

- M 3447 Labelling field with three guide rings (1 RU)
- M 3443 Labelling field with cable duct (1 RU)
- M 3445 Labelling field with 2 cable ducts (1 RU)

Views:

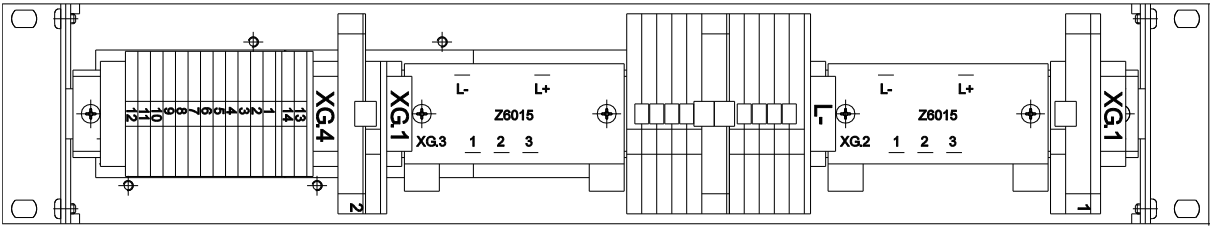


Figure 2: Rear View

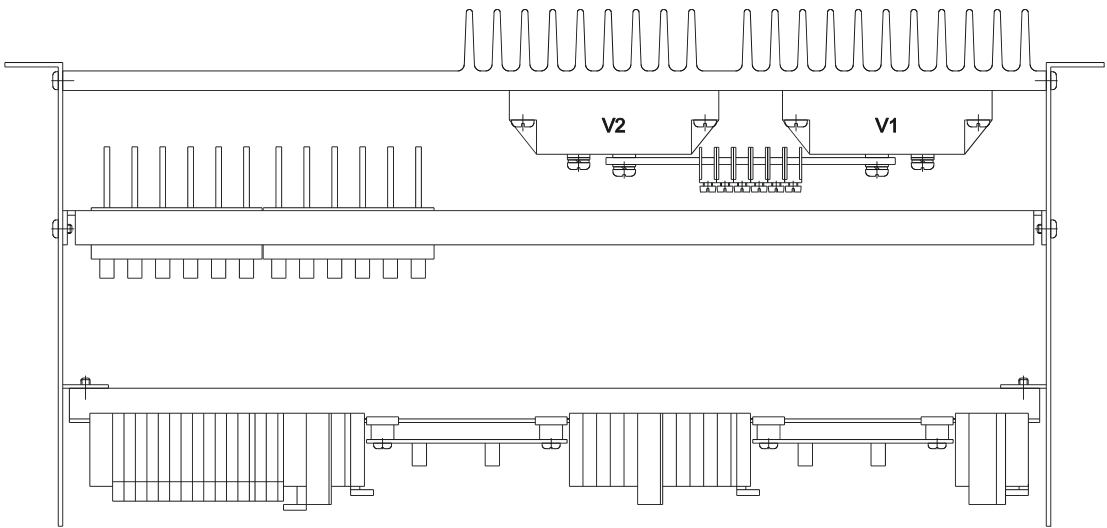


Figure 3: Top View

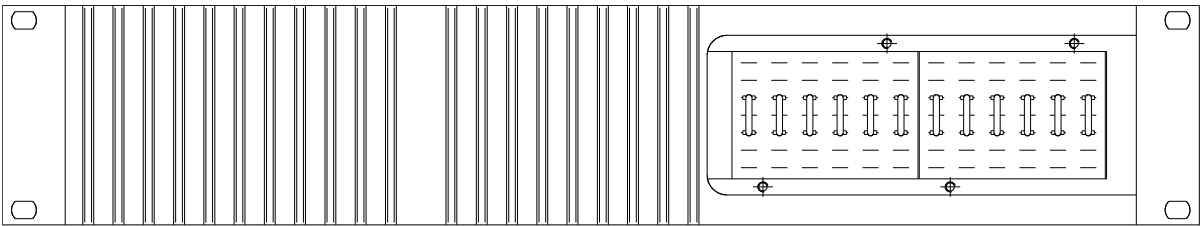


Figure 4: Front View

Application example:

The redundant feeding of K 7212 with 24 VDC is secondarily fused for up to 35 A

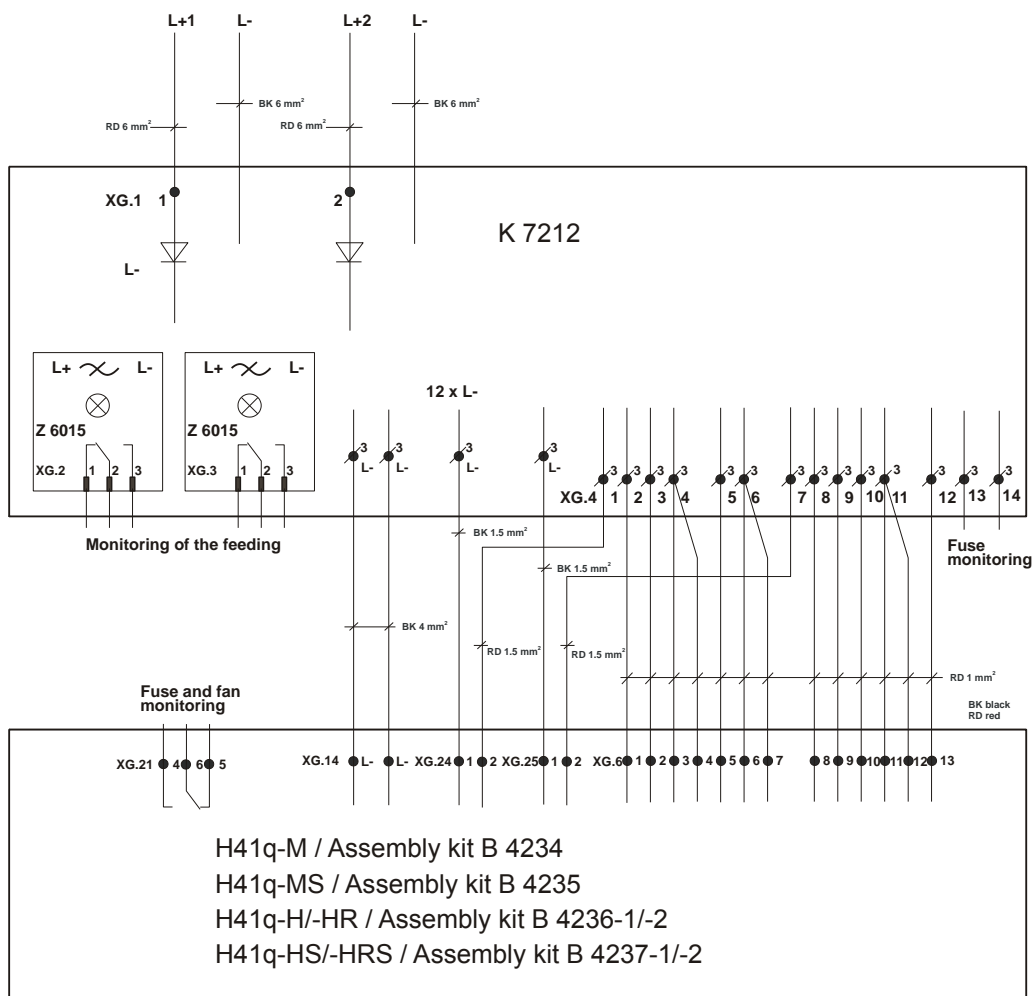


Figure 5: Application Example

Circuit breaker 1 and circuit breaker 7 of the K 7212 (nominal current: 16 A) are used to redundantly fuse the H41q system.

All remaining circuit breakers (nominal current: 4 A) are used to fuse the modules in the H41q system. The modules are grouped and fused according to the group and the module power requirement.

Fusing the modules by using circuit breakers of the K 7212 only represents an example.