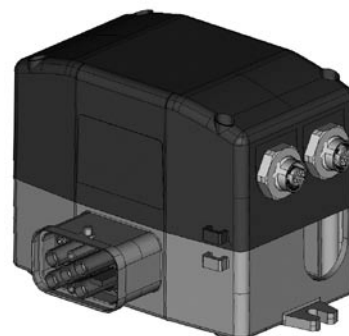


Han-Power® S 1x Han® Q 4/2 with Power Supply 24 V



Identification

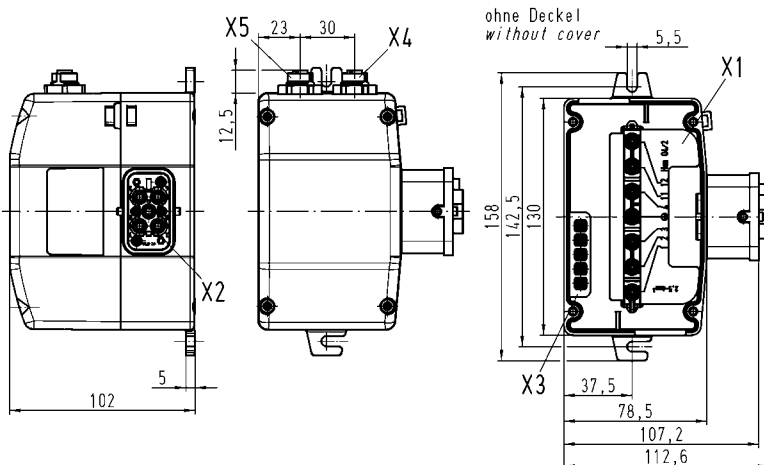
Part-Number

Drawings

Dimensions in mm

Han-Power® S
with 1 x Han® Q 4/2
with power supply 24 V

09 12 008 4610



Features

- 6 IDC's + PE for 4.0 mm² to 6.0 mm² wires
- No interruption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools
- 24 V power supply integrated
- Secondary connection 2 x M12

Assembly Details

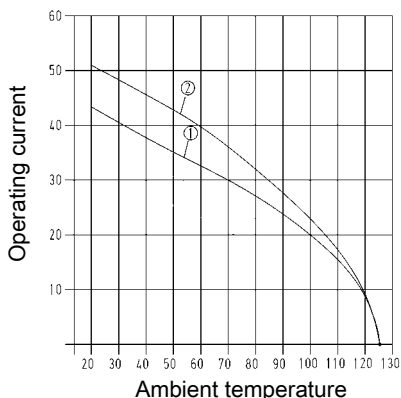
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place of the power cable. The cable mantle has to be removed, the conductor is placed without interruption in the IDC.

Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN EN 60 228 with wire gauges of 4.0 mm² up to 6 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used. This power supply can be used with Han-Compact® hood.

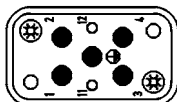
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



- ① Han® Q 4/2 Wire gauge: 4 mm²
 ② Han® Q 4/2 Wire gauge: 6 mm²



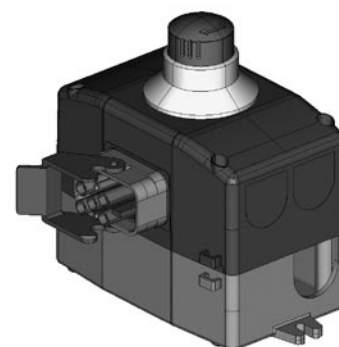
Han® Q 4/2 fully loaded with wire gauge 4 x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1
Han-Power® S	
Number of contacts	4 + PE
- Power contacts	4
- Signal contacts	2
Electrical data	
acc. to EN 61 984	
<u>Power side</u>	40 A 400/690 V 6 kV 3
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Signal side	
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage	
acc. to UL/CSA	600 / 250 V
Insulation resistance	≥ 10 ¹⁰ kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65
Cables	
Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Wire gauge	4 mm ²
- Number of single strands	56 x 0.3 mm Ø
- Outer diameter	4.2 mm
Wire gauge	6 mm ²
- Number of single strands	84 x 0.3 mm Ø
- Outer diameter	4.8 mm
Technical data power supply	
Input data	90 V ... 264 V AC (50 Hz / 60Hz) 100 V ... 300 V DC
Output data	24 V DC / 2 A (adjustable from 23 V ... 29 V) Pre-setting: 24.5 V ± 0,5 %
Max. operating temperature	-20°C ... 85°C
Efficiency	>86% (at 230 V AC)
Reverse voltage	max 32 V
Tide overtime for power-fail	>20 ms
Low voltage system	SELV / PELV
Additionally features	short-circuit proof open-circuit proof automatic switch off in the case of short-circuit

Green LED marks normal operating condition.

Han-Power® S 1 x Han® Q 4/2 with Maintenance Switch



Identification

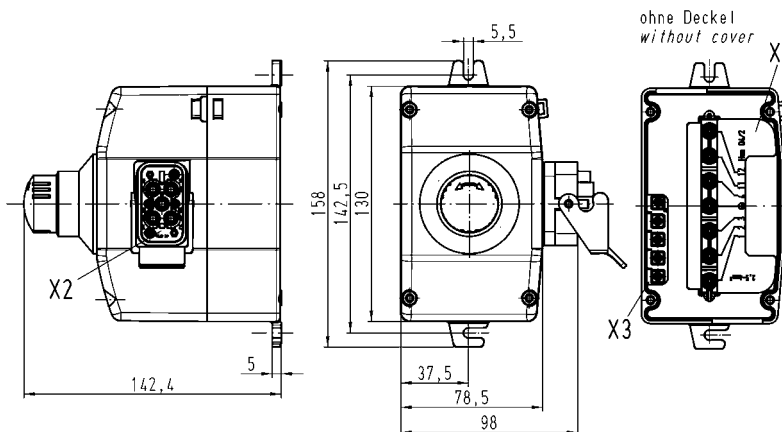
Part-Number

Drawings

Dimensions in mm

Han-Power® S
with 1 x Han® Q 4/2
with maintenance switch

09 12 008 4620



Features

- 6 IDC's + PE for 4.0 mm² to 6.0 mm² wires
- No interruption of the energy supply
- Space-saving and compact design
- Leading protective ground within the insert
- Assembly with standard tools
- Line breakout switch

Assembly Details

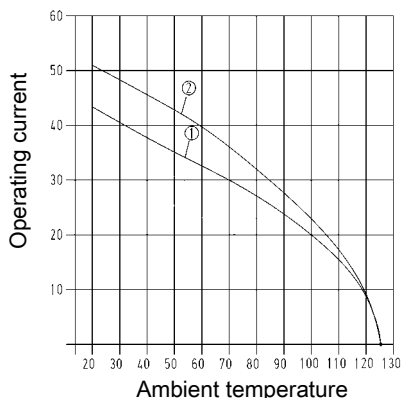
The Han-Power® S connector is suitable for the assembly of serial power bus. Having assembled the energy supply Han-Power® S can be inserted at any place along the power cable. The cable outer sheath has to be removed, the conductor is placed without interruption in the IDC.

Han-Power® S is suitable for cables with single strands manufactured acc. to DIN VDE 0281/ DIN EN 60 228 with wire gauges of 4.0 mm² to 6.0 mm². For the distribution of the device Han-Compact® hoods or cable to cable housings are used. This power supply can be used with Han-Compact® hood.

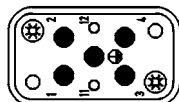
Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



- ① Han® Q 4/2 Wire gauge: 4 mm²
 ② Han® Q 4/2 Wire gauge: 6 mm²



Han® Q 4/2 fully loaded with wire gauge 4 x 6 mm²

Technical characteristics

Specifications	DIN EN 61 984 DIN EN 60 664-1
Han-Power® S	
Number of contacts	
- Power contacts	4 + PE
- Signal contacts	2
Electrical data acc. to EN 61 984	
Power side	40 A 400/690 V 6 kV 3
Rated current	40 A
Rated voltage conductor - ground	400 V
Rated voltage conductor - conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Signal side	10 A 250 V 4 kV 3
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL/CSA	
	600 / 250 V
Insulation resistance	≥ 10 ¹⁰ kΩ
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life	
- mating cycles	≥ 500
Degree of protection acc. to DIN EN 60 529	IP 65
Cables	
Design of conductor acc. to	DIN VDE 0281 DIN EN 60 228
Wire gauge	4 mm ²
- Number of single strands	56 x 0.3 mm ∅
- Outer diameter	4.2 mm
Wire gauge	6 mm ²
- Number of single strands	84 x 0.3 mm ∅
- Outer diameter	4.8 mm
Technical data of switches	
Max. operating temperature	-25°C ... 55°C
Mechanical life	50000 operations
Electrical life	50000 operations
Positive opening NC contact	acc. to EN60947-5-1, appendix. K
Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 sect. 200) for emergency stop switches	
Alternating current	
Utilisation category	AC15 A600
Rated insulation voltage	600 V
Rated operating voltage	240 V / 380 V
Rated operating current	3 A / 1.9 A
Direct current	
Utilisation category	DC13 Q300
Rated insulation voltage	400 V
Rated operating voltage	250 V / 125 V / 60 V / 24 V
Rated operating current	0.27 A / 0.55 A / 1 A / 2 A
Electrical data acc. to IEC/EN 61058-1 (VDE 0630 sect. 1) for switch-disconnectors	
Rated voltage	250 V~ / 400 V~
Rated current	16 (10) A / 10 (5) A