Han-Power®

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Han-Power® S with 1x Han® Q 4/2

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools
- Black plastic hood, top entry
- Cable to cable housings with male insert and hood with female insert

Technical characteristics

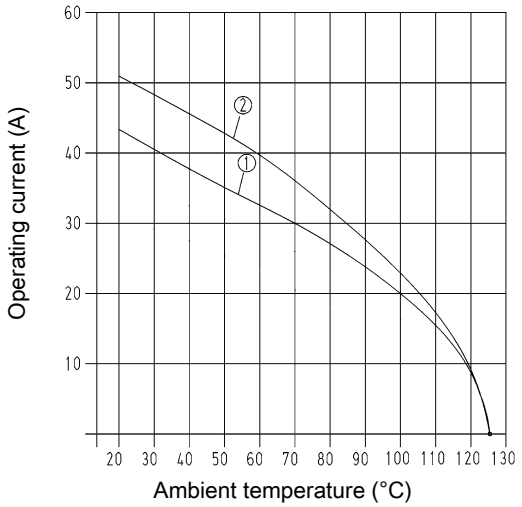
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Termination method	IDC insulation displacement termination
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	250 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 4/2 Conductor cross-section 4 mm²
② Han® Q 4/2 Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

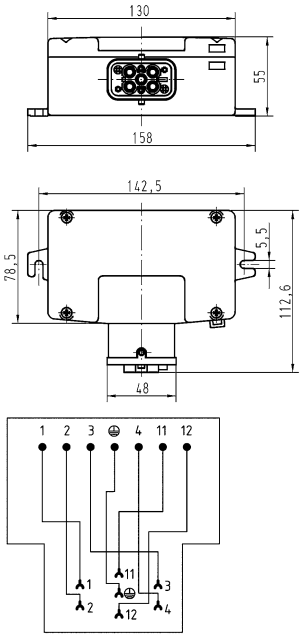
This power supply has to be realized with one Han-Compact® cable to cable hood.

Han-Power® S with 1x Han® Q 4/2

Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
+ 2 additional signal contacts
10 A 250 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 1x Han® Q 4/2, Female insert, in Han-Compact® Hoods 	2.5 ... 4 4 ... 6	09 12 008 4804 09 12 008 4806	 Wiring diagram

Han-Power® S with 2x Han® Q 4/2

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools
- Black plastic hood, top entry
- Cable to cable housings with male insert and hood with female insert

Technical characteristics

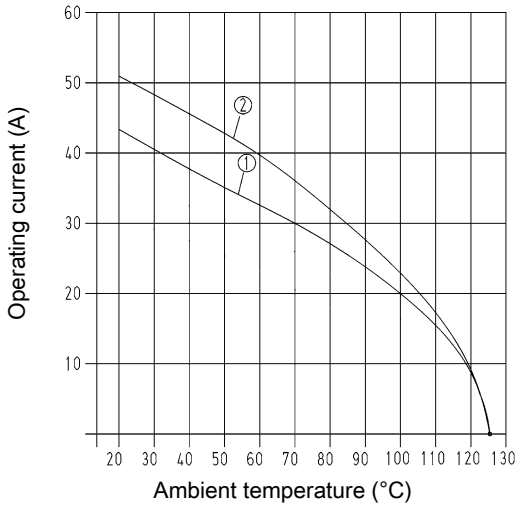
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Termination method	IDC insulation displacement termination
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	250 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 4/2 Conductor cross-section 4 mm²
② Han® Q 4/2 Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

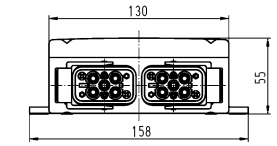
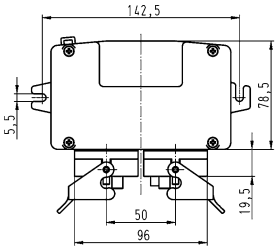
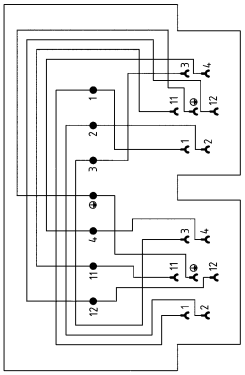
This power supply has to be realized with one Han-Compact® cable to cable hood.

Han-Power® S with 2x Han® Q 4/2

Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
+ 2 additional signal contacts
10 A 250 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 2x Han® Q 4/2, Female insert, in Han-Compact® Housings, bulkhead mounting 	4 ... 6	09 12 008 4807	   Wiring diagram

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

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools

Technical characteristics

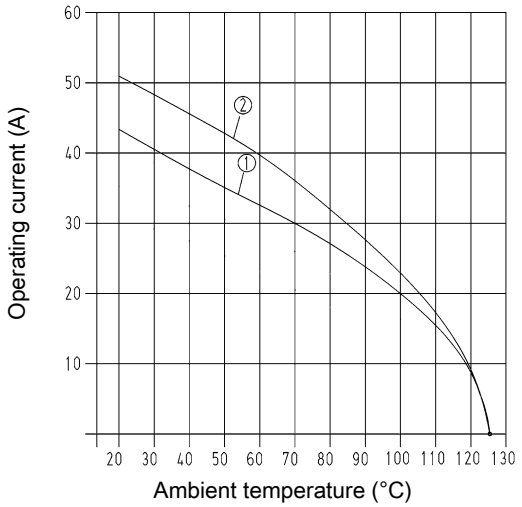
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Termination method	IDC insulation displacement termination
Rated current	5 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	2
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	2
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	250 V
Insulation resistance	≥10^{10} Ω
Limiting temperature	-25 ... +55 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 4/2 Conductor cross-section 4 mm²
② Han® Q 4/2 Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

This power supply has to be realized with one Han-Compact® cable to cable hood.

Technical data of switches

Electrical data acc. to IEC 61058-1 (VDE 0630 sect. 1)

for switch-disconnectors

Rated voltage 250 V~ / 400 V~

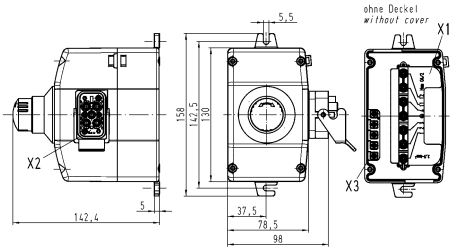
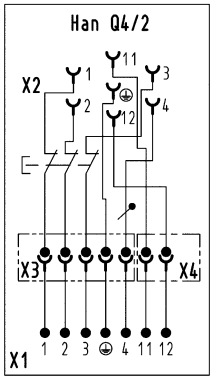
Rated current 16 (10) A / 10 (5) A

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

Number of contacts

4+ ⏚

5 A 230/400 V 4 kV 2
+ 2 additional signal contacts
10 A 250 V 4 kV 2

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 1x Han® Q 4/2, Female insert, in Han-Compact® Hoods, With maintenance switch 	4 ... 6	09 12 008 4620	  Wiring diagram

Han-Power® S with 1x Han® Q 4/2 and on/off Switch

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools

Technical characteristics

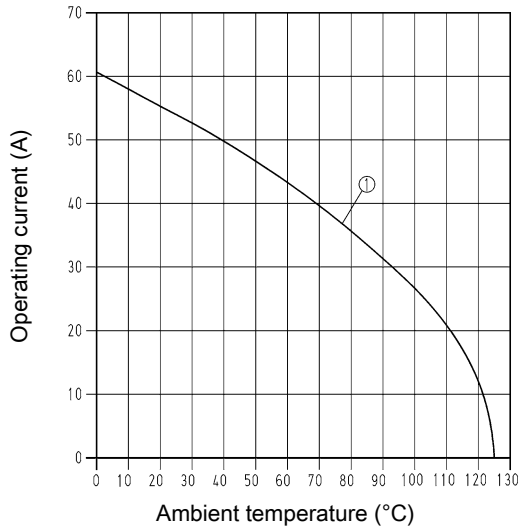
Number of contacts	4
Termination method	IDC insulation displacement termination
Rated current	10 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ω
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0

Derating

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 acc. to IEC 60512-5-2



Energy supply Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

This power supply has to be realized with one Han-Compact® cable to cable hood.

Power side

Electrical data acc. to EN 61984

Interface to connector

10 A 230/400 V 4 kV 3

Frequency 50 Hz

Energy bus

50 A 230/400 V 4 kV 3

Max. operating temperature -5°C … 60°C

Degree of protection

acc. to DIN EN 60529 IP65

Mechanical working life ≥ 500 mating cycles

Security fixing

nach IEC 60127-1;

nach UL 4248-1 / UL 512

nach CSA C22.2 no. 39

Rated current 10 A

Rated voltage 250 V

Technical data of switches

Electrical data acc. to IEC 60947

16 A 750 V 0.5 kA

Rated current 16 A

Rated voltage 750 V

Rated short-circuit current 0.5 kA

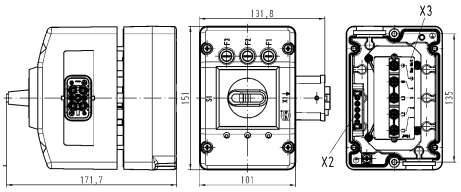
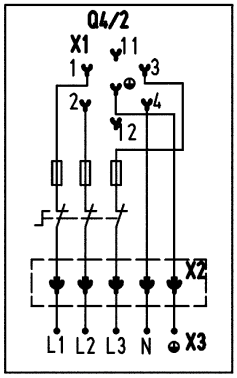
Mechanical working life 10 000 operations

Han-Power® S with 1x Han® Q 4/2 and on/off Switch

Number of contacts

4+ ⏚

10 A 230/400 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 1x Han® Q 4/2, Female insert, in Han-Compact® Hoods, On/off Switch 	10	09 12 008 4650	  Wiring diagram

Han-Power® S with 1x Han® Q 4/2, metal

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools

Technical characteristics

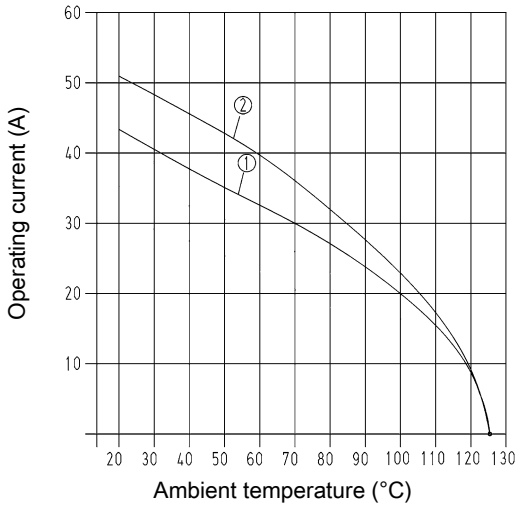
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Termination method	IDC insulation displacement termination
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	250 V
Rated voltage acc. to CSA	250 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤0.3 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Aluminium die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 4/2 Conductor cross-section 4 mm²
② Han® Q 4/2 Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

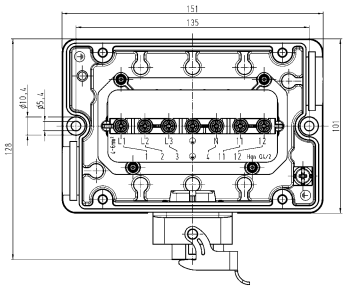
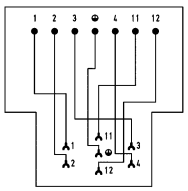
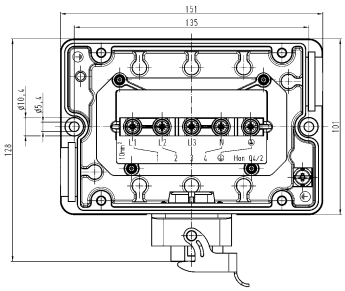
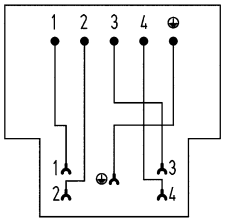
This power supply has to be realized with one Han-Compact® cable to cable hood.

Han-Power® S with 1x Han® Q 4/2, metal

Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
+ 2 additional signal contacts
10 A 250 V 4 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 1x Han® Q 4/2, Female insert, in Han-Compact® Housings, bulkhead mounting 	4 ... 6	09 12 008 4901	  Wiring diagram
Han-Power® S, Energy distributor, With 1x Han® Q 4/2, Female insert, in Han-Compact® Housings, bulkhead mounting, Without signal contacts 	10	09 12 008 4951	  Wiring diagram

Han-Power® S with 1x Han® Q 8/0

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools
- Black plastic hood, top entry

Technical characteristics

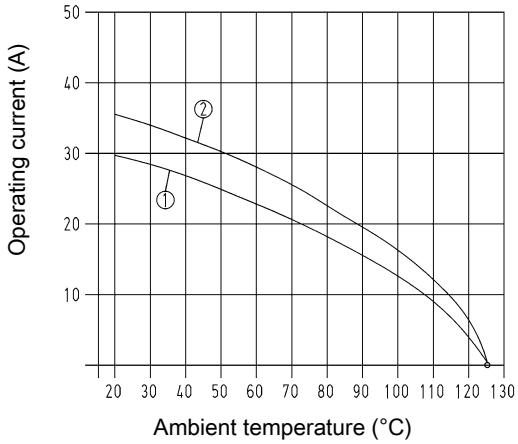
Number of contacts	8
Termination method	IDC insulation displacement termination
Rated current	25 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide, Fibre-glass reinforced
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 8/0 Conductor cross-section 2.5 mm²
② Han® Q 8/0 Conductor cross-section 4 mm²
③ Han® Q 8/0 Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

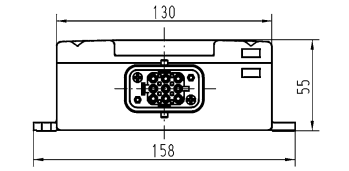
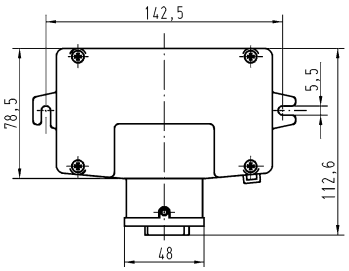
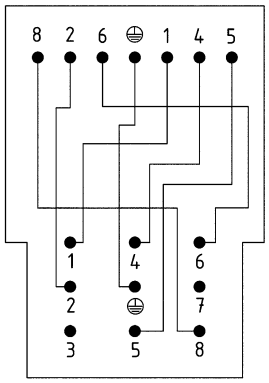
This power supply has to be realized with one Han-Compact® cable to cable hood.

Han-Power® S with 1x Han® Q 8/0

Number of contacts

8+ ⏚

25 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 1x Han® Q 8/0, Female insert, in Han-Compact® Hoods 	2.5 ... 4 4 ... 6	09 12 008 4801 09 12 008 4811	   Wiring diagram

Han-Power® S with 2x Han® Q 8/0

Features

- Compact design saves space
- No interruption of the energy supply
- Leading PE contact within the insert
- Assembly with standard tools
- Black plastic hood, top entry

Technical characteristics

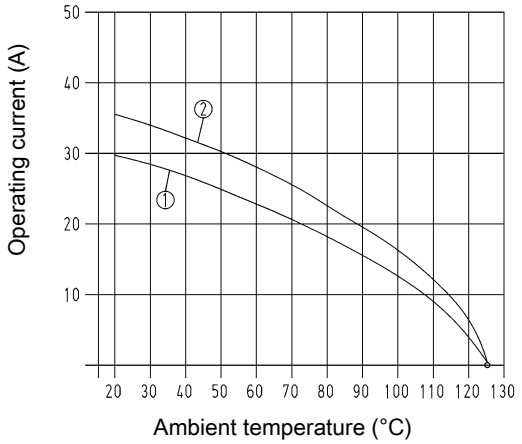
Number of contacts	6
Termination method	IDC insulation displacement termination
Rated current	25 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Limiting temperature	-40 ... +125 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polycarbonate
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



① Han® Q 8/0 Conductor cross-section 2.5 mm²
② Han® Q 8/0 Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984

CE

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 jacket 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/ EN 60228. For the distribution of the device Han-Compact® hoods or cable to cable housings are used.

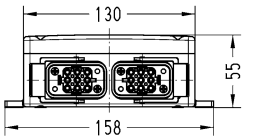
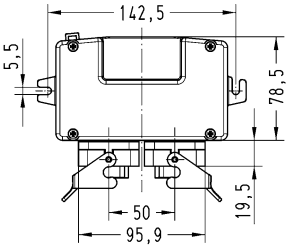
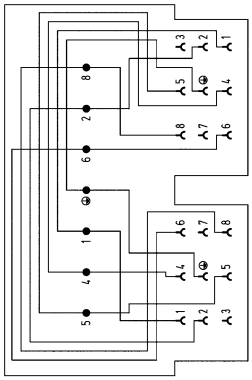
This power supply has to be realized with one Han-Compact® cable to cable hood.

Han-Power® S with 2x Han® Q 8/0

Number of contacts

6+ ⏚

25 A 500 V 6 kV 3

Identification	Conductor cross-section (mm²)	Part number	Drawing (dimensions in mm)
Han-Power® S, Energy distributor, With 2x Han® Q 8/0, Female insert, in Han-Compact® Housings, bulkhead mounting 	2.5 ... 4	09 12 008 4802	   Wiring diagram

Technical characteristics

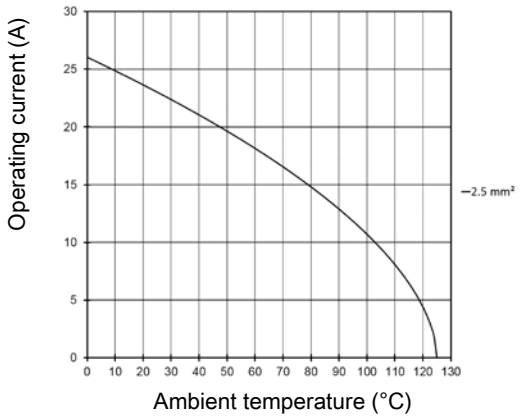
Number of contacts	4
Rated current	12 A
Rated voltage	48 V
Rated impulse voltage	1.5 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ω
Mating cycles	≥750
Degree of protection acc. to IEC 60529	IP65, IP67
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material flammability class acc. to UL 94	V-0

Derating

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 acc. to IEC 60512-5-2



Specifications and approvals

EN 60664-1
IEC 61984

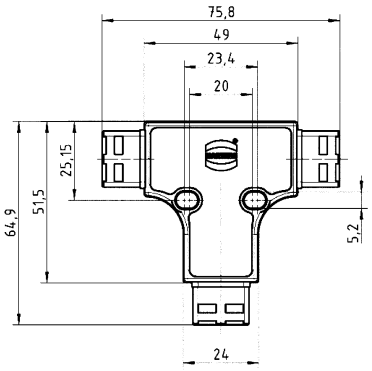
CE

Han-Power® T with 3x HARTING PushPull Power

Number of contacts

4

12 A 48 V 1.5 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x HARTING PushPull Power, Bulkhead mounted housings 	09 12 008 4770	

Han-Power® T with 3x Han® Q 2/0

Features

- One connection for the power input, the power output and to connect with the device
- 2 power contacts
- Plastic housings are integrated in the moulding

Technical characteristics

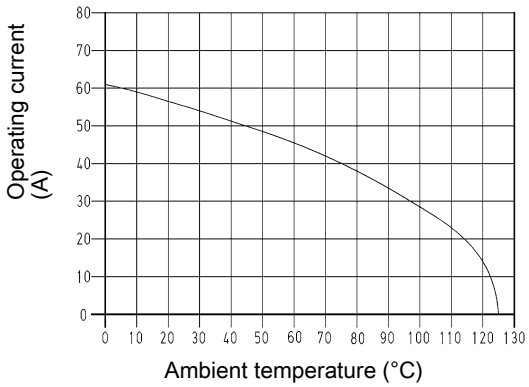
Number of contacts	2
Rated current	40 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Mating cycles	≥500
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Conductor cross-section 6 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 2237 PVVA.E318390
CSA-C22.2 No. 182.3 PVVA7.E318390

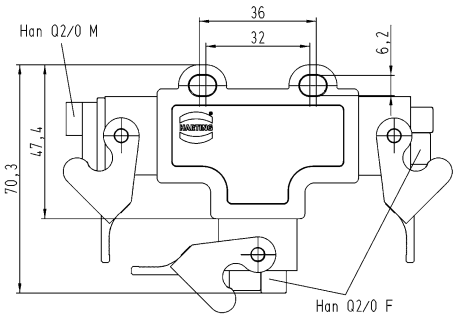
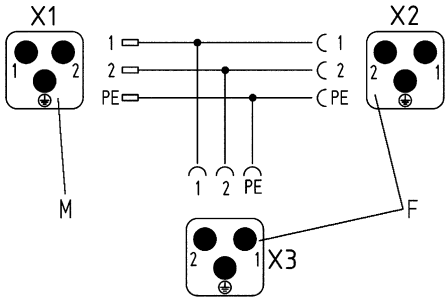
CE

Han-Power® T with 3x Han® Q 2/0

Number of contacts

2+ ⏚

40 A 400 V 6 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han® Q 2/0, In Han® 3 A Housings, bulkhead mounting 	09 12 008 4752	  Wiring diagram

Technical characteristics

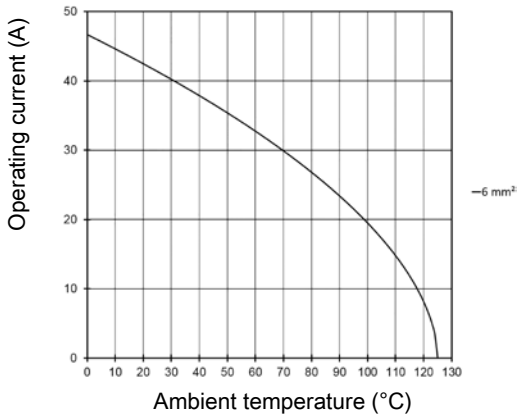
Number of contacts	4
Rated current	40 A
Rated voltage	830 V
Rated impulse voltage	8 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Mating cycles	≥500
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Specifications and approvals

EN 60664-1
IEC 61984

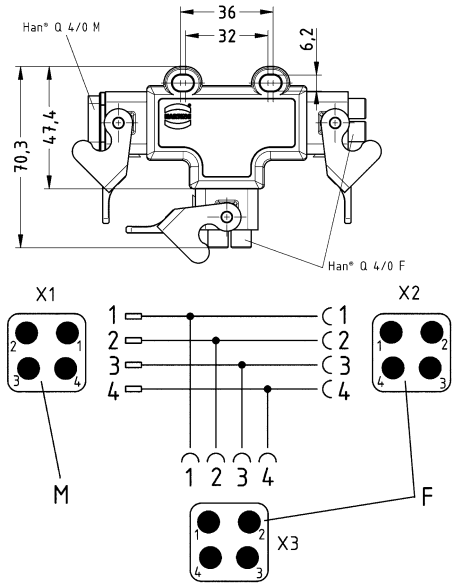
CE

Han-Power® T with 3x Han® Q 4/0

Number of contacts

4+ ⏚

40 A 830 V 8 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han® Q 4/0, In Han® 3 A Housings, bulkhead mounting 	09 12 008 4756	 Wiring diagram

Han-Power® T with 3x Han® Q 5/0

Features

- One connection for the power input, the power output and to connect with the device
- Plastic housings are integrated in the moulding

Technical characteristics

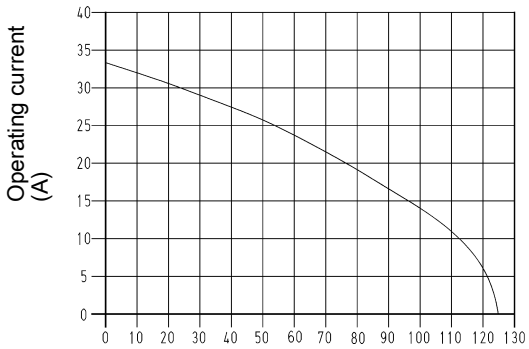
Number of contacts	5, 4
Rated current	16 A
Rated voltage conductor-earth	230 V
Rated voltage conductor-conductor	400 V
Rated impulse voltage	4 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Mating cycles	≥500
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 2237 PVVA.E318390
CSA-C22.2 No. 182.3 PVVA7.E318390

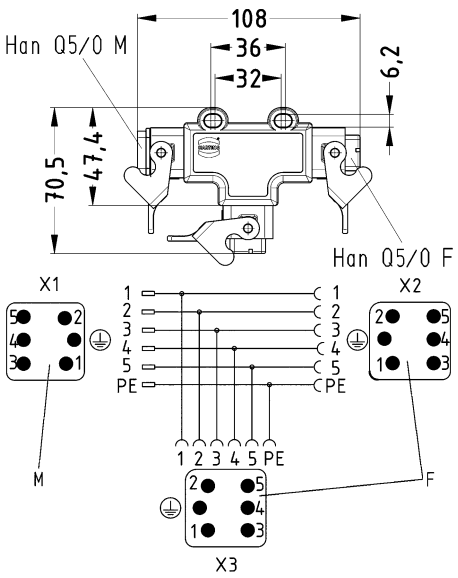
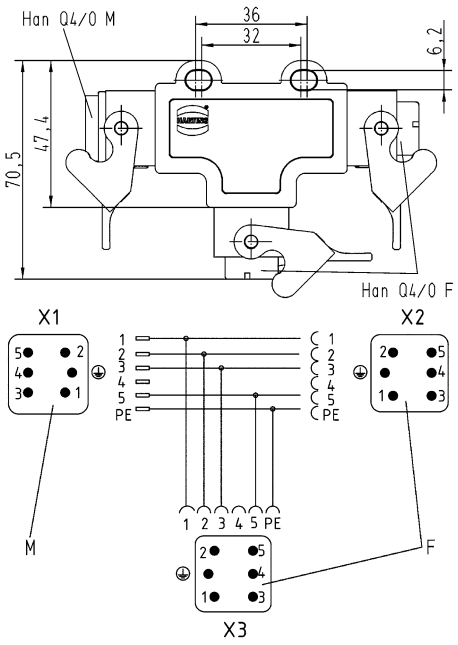
CE

Han-Power® T with 3x Han® Q 5/0

Number of contacts

5+ ⏚

16 A 230/400 V 4 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han® Q 5/0, In Han® 3 A Housings, bulkhead mounting, 5-pin 	09 12 008 4753	 Wiring diagram
Han-Power® T, Energy distributor, With 3x Han® Q 5/0, In Han® 3 A Housings, bulkhead mounting, 4-pin 	09 12 008 4751	 Wiring diagram

Technical characteristics

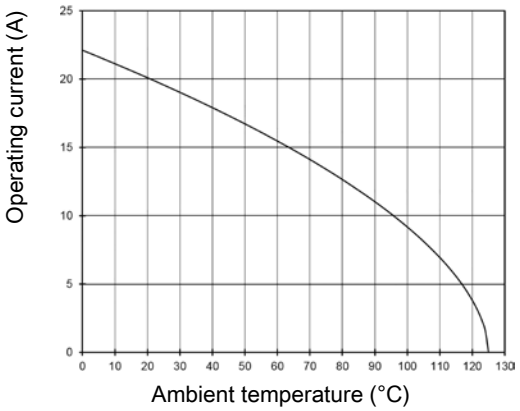
Number of contacts	7
Rated current	10 A
Rated voltage	400 V
Rated impulse voltage	6 kV
Pollution degree	3
Insulation resistance	≥10^{10} Ω
Contact resistance	≤1 mΩ
Mating cycles	≥500
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Conductor cross-section 2.5 mm²

Specifications and approvals

EN 60664-1
IEC 61984

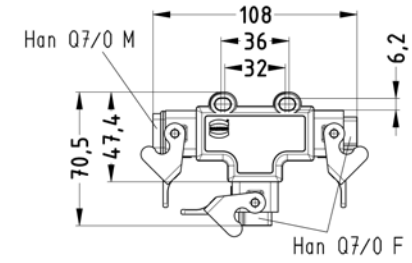
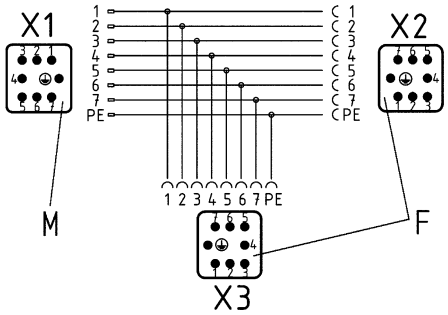
CE

Han-Power® T with 3x Han® Q 7/0

Number of contacts

7+ ⏚

10 A 400 V 6 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han® Q 7/0, In Han® 3 A Housings, bulkhead mounting	09 12 008 4757	  Wiring diagram

Han-Power® T with 3x Han® Q 4/2

Features

- One connection for the power input, the power output and to connect with the device
- Finger safe male and female contacts
- 4 power contacts
- 2 signal contacts
- Metal hoods / housings

Technical characteristics

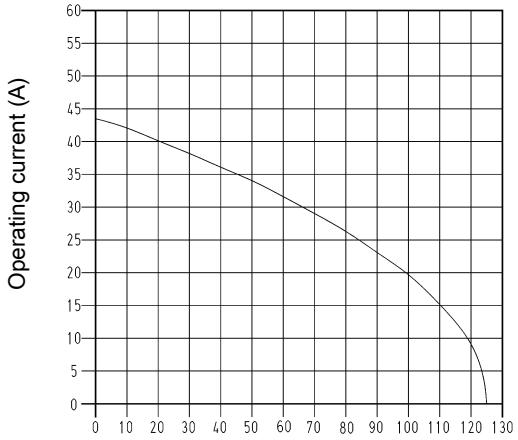
Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	250 V
Rated voltage acc. to CSA	250 V
Insulation resistance	≥10^{10} Ω
Contact resistance	≤0.3 mΩ
Mating cycles	≥500
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Stainless steel
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Conductor cross-section 4 mm²

Specifications and approvals

EN 60664-1
IEC 61984
UL 2237 PVVA.E318390
CSA-C22.2 No. 182.3 PVVA7.E318390

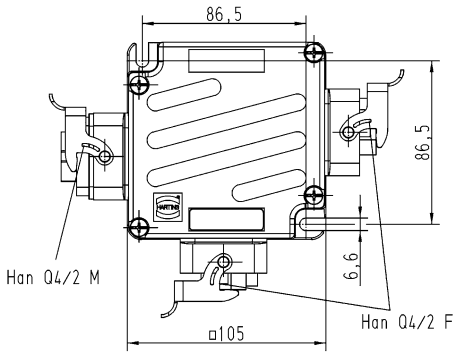
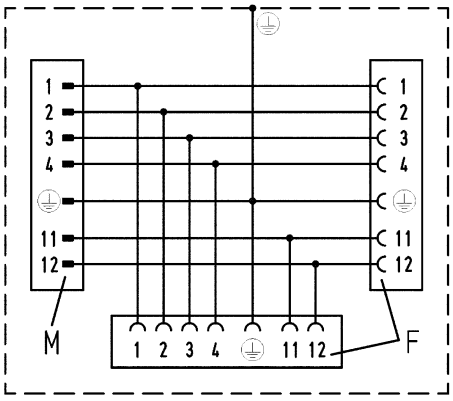
CE

Han-Power® T with 3x Han® Q 4/2

Number of contacts

4+ ⏚

40 A 400/690 V 6 kV 3
+ 2 additional signal contacts
10 A 250 V 4 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han® Q 4/2, in Han-Compact® Housings, bulkhead mounting 	09 12 008 4720	  Wiring diagram

Han-Power® T with 5x Han® Q 4/2

Features

- The product doesn´t have an internal overcurrent and short-circuit protection device.
- Overload and short-circuit protection measures are the responsibility of the user (electrician).
- Maximum let-through energy of the short-circuit protection device (I^2t) shall not exceed 211600 A^2s.
- Assembly and installation must be carried out by a qualified electrician.
- The distributor box may only be operated when it is fastened.
- Do not plug/unplug under voltage/load, do not apply voltage when not plugged in, unused connections must be closed with a cover cap.

Technical characteristics

Number of contacts	4
Additional contacts	+ 2 additional signal contacts
Rated current	17 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	2 A
Rated voltage (signal)	24 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to UL (signal)	24 V
Rated voltage acc. to CSA	600 V
Rated voltage acc. to CSA (signal)	24 V
Insulation resistance	≥10^{10} Ω
Limiting temperature	-40 ... +40 °C
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Specifications and approvals

EN 60664-1
IEC 61984
UL 2237 PVVA.E318390
CSA-C22.2 No. 182.3 PVVA7.E318390

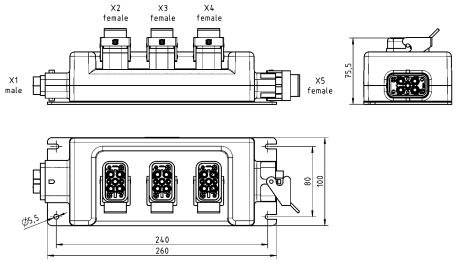
CE

Han-Power® T with 5x Han® Q 4/2

Number of contacts

4+ ⏚

17 A 400/690 V 6 kV 3
+ 2 additional signal contacts
2 A 24 V 4 kV 3

Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 5x Han® Q 4/2, in Han-Compact® Housings, bulkhead mounting 	61 12 203 0007 00	

Han-Power® T with 3x Han-Modular® Twin

Features

- One connection for the power input and the power output
- 1 T-connection to device
- 3 power contacts
- 4 signal contacts
- Metal hoods / housings
- Locking levers: Han-Easy Lock®

Technical characteristics

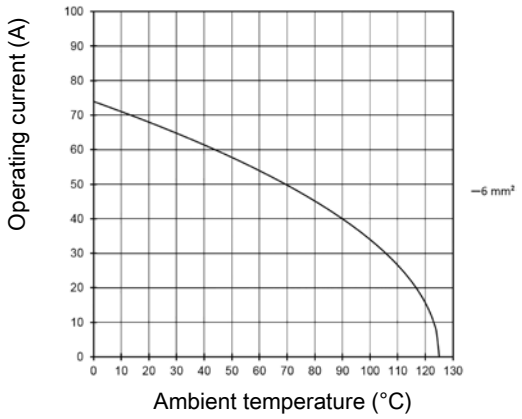
Number of contacts	3
Additional contacts	+ 4 additional signal contacts
Rated current	40 A
Rated voltage conductor-earth	400 V
Rated voltage conductor-conductor	690 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current (signal)	16 A
Rated voltage (signal)	400 V
Rated impulse voltage (signal)	6 kV
Pollution degree (signal)	3
Rated voltage acc. to UL	600 V
Insulation resistance	≥10^{10} Ω
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Powder-coated
Colour (hood/housing)	RAL 7037 (dust grey)
Material (seal)	NBR
Material (locking)	Polycarbonate, Stainless steel
Material (contacts)	Copper alloy
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	**6c:** Copper alloy containing up to 4 % lead by weight

Derating

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 acc. to IEC 60512-5-2



Conductor cross-section 10 mm²

Specifications and approvals

EN 60664-1
IEC 61984

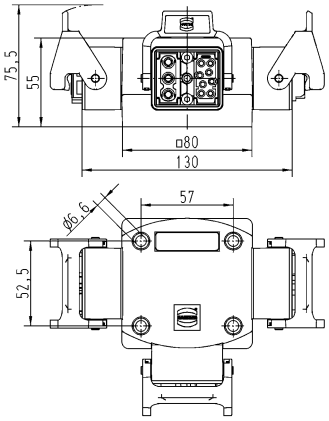
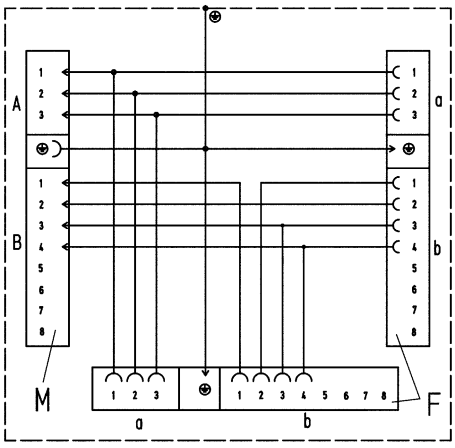
CE

Han-Power® T with 3x Han-Modular® Twin

Number of contacts

3

40 A 400/690 V 6 kV 3
+ 4 additional signal contacts
16 A 400 V 6 kV 3

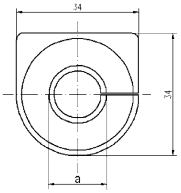
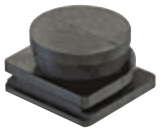
Identification	Part number	Drawing (dimensions in mm)
Han-Power® T, Energy distributor, With 3x Han-Modular® Twin, Bulkhead mounted housings 	09 12 008 4760	  Wiring diagram

Technical characteristics

Material (seal)	NBR
Colour (seal)	Black

Technical characteristics

Material (accessories)	NBR
Colour (accessories)	Black
RoHS	compliant

Identification	Cable diameter (mm)	Part number	Drawing (dimensions in mm)
Grommet, Han-Power® S 	7 ... 10 10 ... 13 13 ... 16 16 ... 19 19 ... 22	09 12 000 9969 09 12 000 9970 09 12 000 9971 09 12 000 9972 09 12 000 9973	
Dummy plugs, Han-Power® S 		09 12 000 9974	