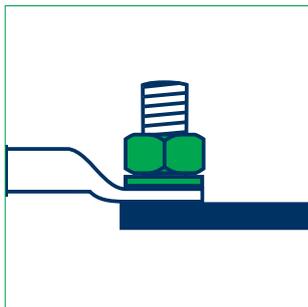
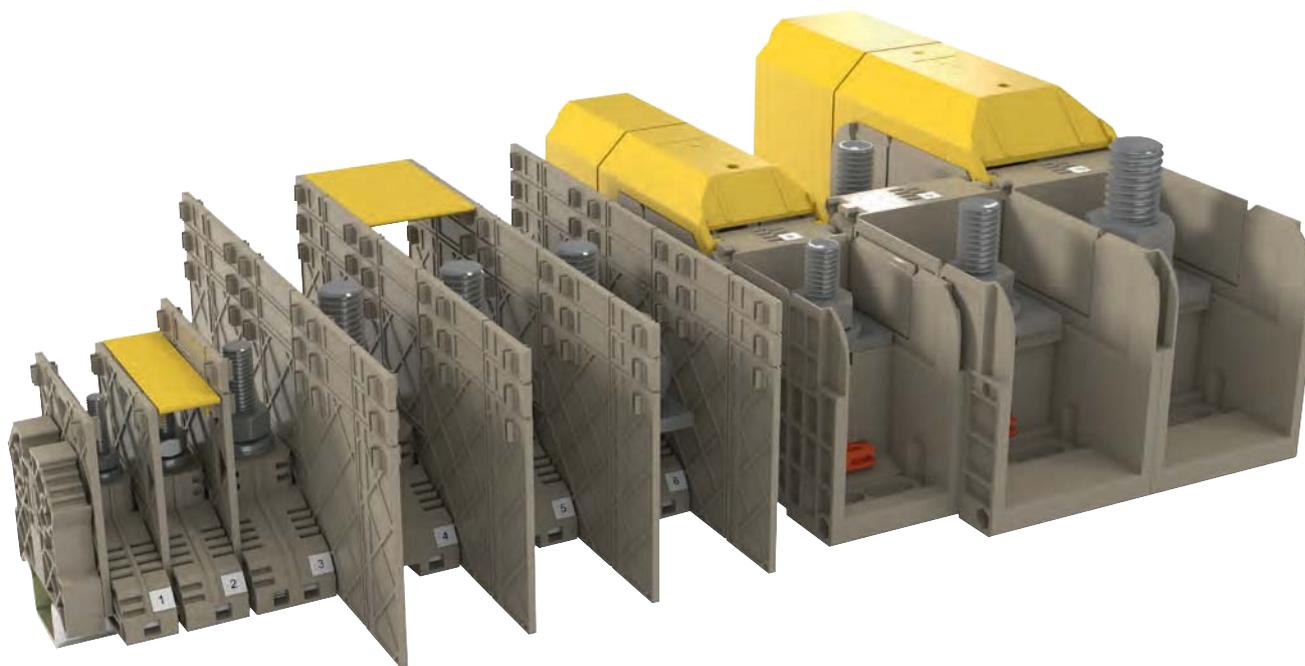


**Stud connection system HSKG**


The newest generation of stud terminals from **CONTA-CLIP** offers secure connections for all energy-transmitting applications. Depending on the wire cross-section, the **HSKG** stud terminals can be used with M6, M8, M10, M12 and M16 threaded studs. The rated current is from 125 A to 520 A with a rated voltage of 1000 V. The wire connection range is from 2.5 mm<sup>2</sup> to 300 mm<sup>2</sup>. Wires with crimped cable lugs are applied to threaded bolts and then connected securely to the busbar by tightening the hex nut. Optimal security is guaranteed by the low voltage drop and by the use of self-extinguishing material with a V-0 (UL94) flammability rating.

When used together with the **ADH** hinged covers, the **HSKG** stud terminals provide outstanding finger and touch protection. The **ADH** cover is easy to mount; it simply snaps into the side walls of the stud terminals as it is closed. In this quick and reliable way, touch-safe protection of the terminal points is always guaranteed.


**Terminal holders and covers made from Polyamide 6.6 V-0**

- Self-extinguishing, UL 94 V-0 flammability class
- Creepage-current protected, CTI = 600
- Temperature resistance: -40° to +120°C
- Spec. contact resistance: 10<sup>13</sup> Ohm/cm
- Spec. surface resistance: 10<sup>15</sup> Ohm/cm
- Temp. index, mechanical: 120°C (at 0.8 mm)
- Temp. index, electrical: 120°C (at 0.8 mm)
- Relative temperature index, electrical: 130°C (at 0.8 mm)
- Pollutant-free

**Standards**

The following standard terminal block requirements are fulfilled:

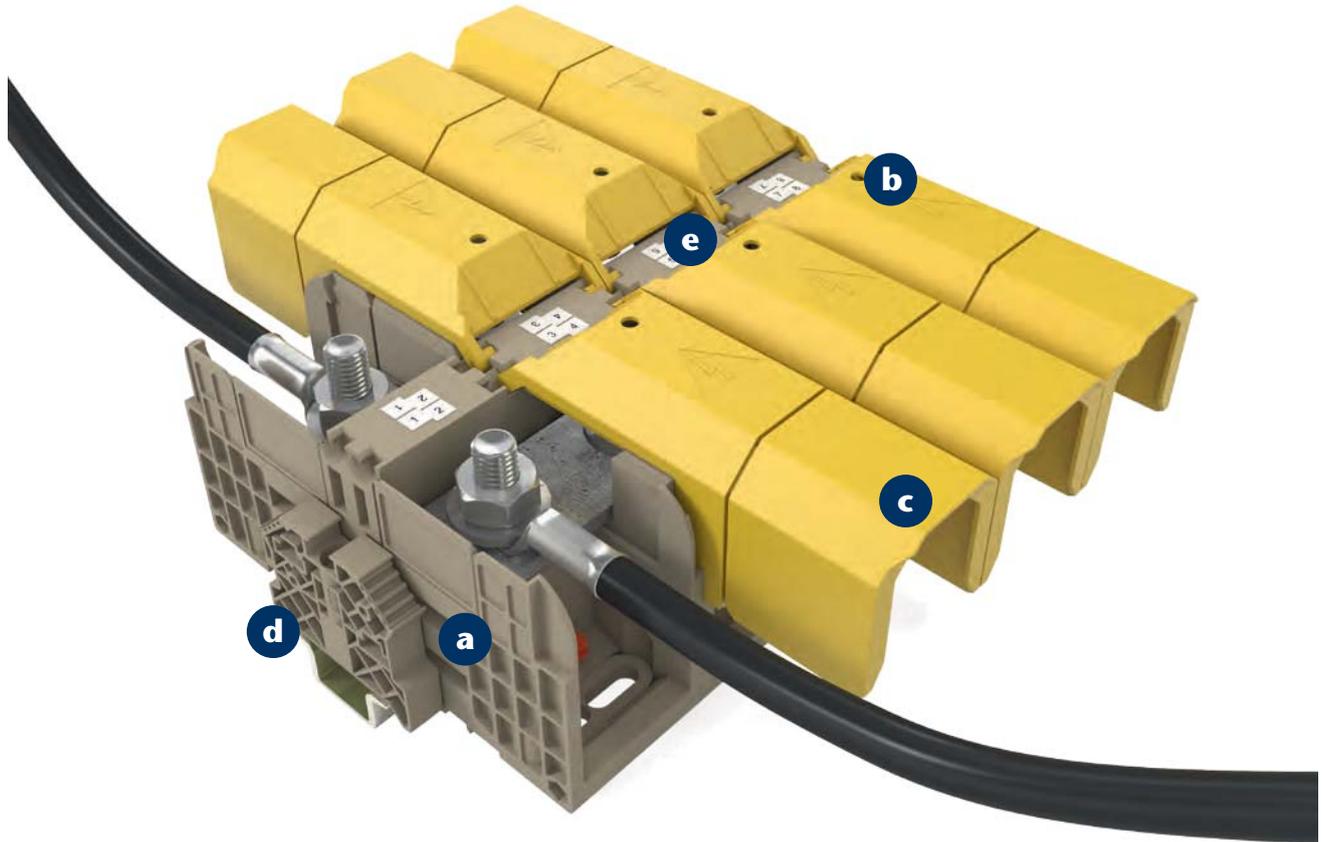
- EN 60947-7-1
- EN 50124-1
- DIN EN 61373

# Stud connection system HSKG

## Features

**a Base terminal HSKG**  
**CONTA-CLIP** stud terminals can be arranged as required on standard **TS 35** DIN rails in accordance with EN 60715. Direct mounting is possible.

**b Measurement port**  
The **ADH** has an opening used to measure the voltage.



**c Covers ADH**  
The **ADH** covers can be snapped on, simply and securely, to the matching clips in the partitions. In this quick and reliable way, touch-safe protection of the terminal points is always guaranteed.

**d End stop ES 35/K/ST**  
The **ES 35/K/ST** end stops grip both sides of the DIN rail with steel clamps. They are a secure method of mechanical attachment in terminal rail design. The plastic PA 6.6 housing of the brackets encapsulates the metal parts.

### Handling

#### Stud terminals:

Cable lugs are crimped onto the wire ends to facilitate the connection. The cable lugs are placed on the studs between the combi-nut and the busbar. The cable lugs should be aligned opposite each other when there are two lugs per stud. When the nut is tightened, the flats of the cable lugs clamp together and a secure connection is ensured.

**e Labelling | Marking**  
The stud terminals have a labelling surface which is optimally suited for **CONTA-CLIP's PMC** Pocket-Maxicard standard marking systems.

## Stud connection system HSKG

### The features in detail

#### Stud connection

- Stud sizes: M6, M8, M10, M12 to M16
- Wire with cable lug acc. to DIN 46234: up to 300 mm<sup>2</sup>
- Two cable lugs can be connected per stud

#### Easy to use

- Place cable lugs on the stud
- By tightening the steel nut, the cable lugs forms a contact with the other cable lug or with the busbar

#### Secure contacts

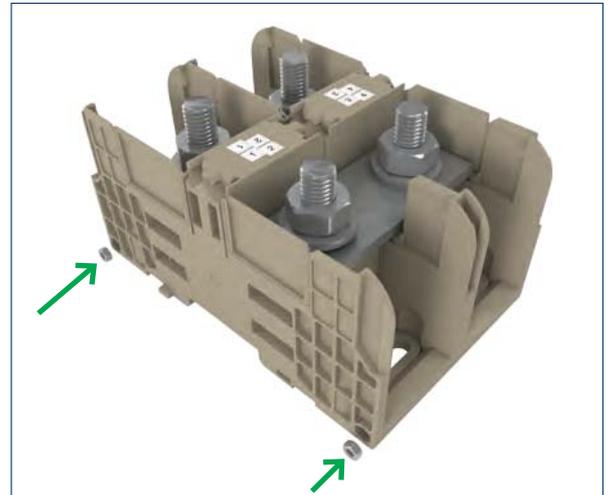
- Maintenance-free; subsequent tightening of the nut is not needed
- High contact strength and vibration resistance provided by the safety/spring washer and combi-nut
- Direct contact of cable lugs, or contact via copper busbar

#### Mounting options

- Sliding lock on both sides: can be attached to TS 35 DIN rail
- Direct mount possible using the integrated slots in the housing base



**Connecting the wire**



**Additional bolting options**



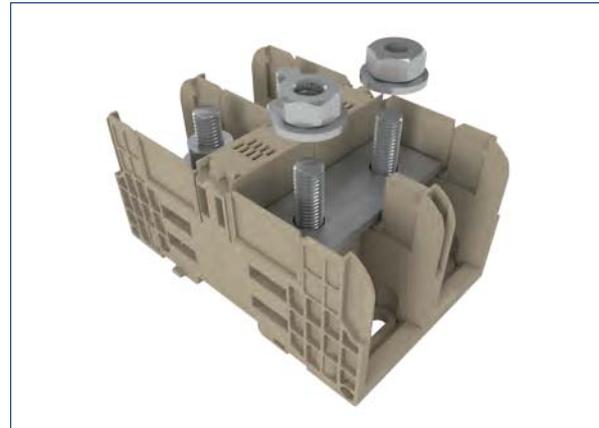
**TS mount / direct mount**

# Stud connection system HSKG

## Handling and accessories

### Cross-connections

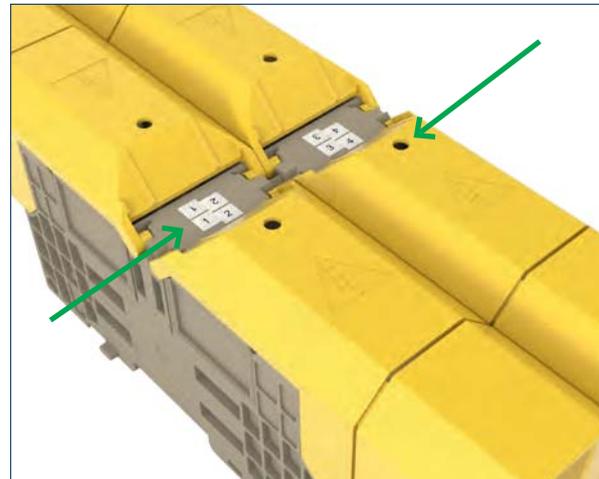
- 2 -pole and 3-pole version
- Possible to distribute potentials between the different sizes
- Designed for the rated current of the corresponding stud terminal
- Speedy distribution of potentials helps save time



Attaching the cross-connections

### Labelling and testing

- Receptacles for standard markers
- Openings in the **ADH** covers for measuring voltage



Marking options with the PMC and voltage measurement opening

### Using the ADH covers

Individual **AH...** covers are available for each width of stud terminal. They are designed for the different sizes and the corresponding clearance and creepage distances. It is also possible to shorten the covers along pre-created breakage points. The **ADH** cover is attached by pressing the cover down onto the base terminal so that the cover snaps onto the terminal.



ADH open



ADH closed

# High-power stud terminals HSKG

## Stud connection system



- Foot can be snapped on TS 35 DIN rail
- Direct mount
- Stud connection
- Housing made from polyamide 6.6 UL 94 V-0

## Connection diagram

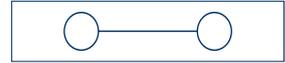
### HSKG 35/M6/B/B



### HSKG 70/M8/B/B



### HSKG 120/M10/B/B



## Connection type

Size (L x W x H) with TS 35 x 7.5  
 Size (L x W x H) with TS 35 x 7.5, including ADH on both sides

## TYPE

Type Colour  
**Cat. no.**

## Stud connection

107 x 27 x 51  
 131 x 27 x 60

## Stud connection

132 x 32 x 61  
 180 x 32 x 70

## Stud connection

133 x 42 x 72  
 226 x 42 x 80

Colours available

## Ratings

Rated voltage, V  
 Rated current, A  
 Rated cross-section, mm<sup>2</sup> | AWG  
 Rated impulse voltage, kV | Contamination degree  
 Flamm. class acc. to UL 94

## Connection data

Clamping area, mm<sup>2</sup>  
 Stud size

## Clampable cable lug

DIN 46234 / 1 cable lug per side, mm<sup>2</sup>  
 DIN 46234 / 2 cable lugs per side, mm<sup>2</sup>  
 DIN 46235 / 1 cable lug per side, mm<sup>2</sup>  
 DIN 46235 / 2 cable lugs per side, mm<sup>2</sup>  
 Torque, Nm

## Features

Material of insulated housing | Temperature range

## Accessories

Cover profile ADH  
**Cat. no.**  
 Cover profile ADH  
**Cat. no.**  
 Cover profile ADH  
**Cat. no.**  
 QS cross-connection rail  
**Cat. no.**  
 QS cross-connection rail  
**Cat. no.**  
 End stop ES  
**Cat. no.**  
 Quick marking PMC SB  
**Cat. no.**

②

**IEC** **UL** **cUL**  
 1000 1000 600  
 125 115 130

35 | 14-2  
 8 | 3  
 V-0

2.5 - 50  
 M6

2.5 - 50

6 - 25

3 - 6

PA 6.6 | -40 to +120°C

**Qty.**  
 ADH 35 BG  
**17275.2** 20

ADH 35 BU  
**17275.5** 20

ADH 35 YE  
**17275.8** 20

QS 2/35/6  
**17276.0** 10

QS 3/35/6  
**17277.0** 10

ES 35/K/ST BG  
**2828.0** 50

PMC SB 6/50 WH  
**4702.7** 500

②

**IEC** **UL** **cUL**  
 1000 1000 600  
 192 175 170

70 | 14-00  
 8 | 3  
 V-0

2.5 - 95  
 M8

2.5 - 95

16 - 70

6 - 12

PA 6.6 | -40 to +120°C

**Qty.**  
 ADH 70 BG  
**17268.2** 20

ADH 70 BU  
**17268.5** 20

ADH 70 YE  
**17268.8** 20

QS 2/70/8  
**17269.0** 10

QS 3/70/8  
**17270.0** 10

ES 35/K/ST BG  
**2828.0** 50

PMC SB 6/50 WH  
**4702.7** 500

②

**IEC** **UL** **cUL**  
 1000 1000 600  
 269 310 310

120 | 10-Kcmil 250  
 8 | 3  
 V-0

≤ 120  
 M10

6 - 150

6 - 120

16 - 150

16 - 120

10 - 20

PA 6.6 | -40 to +120°C

**Qty.**  
 ADH 120 BG  
**17025.2** 10

ADH 120 BU  
**17025.5** 10

ADH 120 YE  
**17025.8** 10

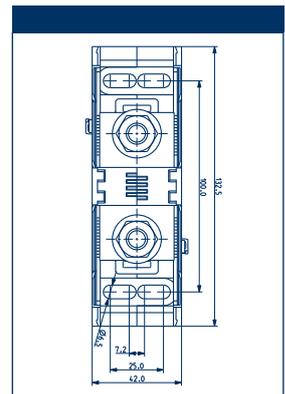
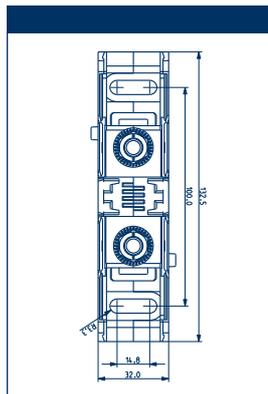
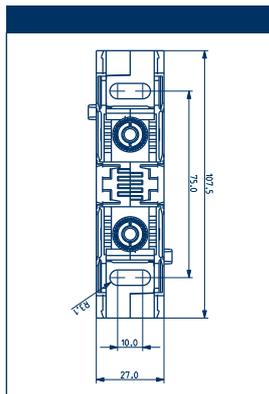
QS 2/120/10  
**17241.0** 10

QS 3/120/10  
**17242.0** 10

ES 35/K/ST BG  
**2828.0** 50

PMC SB 6/50 WH  
**4702.7** 500

## Dimension diagram



# High-power stud terminals HSKG



**Stud connection**  
164 x 55 x 78  
288 x 55 x 90

**Stud connection**  
164 x 55 x 86  
288 x 55 x 90

**Qty.**  
HSKG 185/M12/B/B BG  
**17024.2** 5

**Qty.**  
HSKG 300/M16/B/B BG  
**17027.2** 5

②		
IEC	UL	cUL
1000	1000	600
353	380	360
185   10-Kcmil 500		
8   3		
V-0		
≤ 185		
M12		
10 - 240		
10 - 185		
25 - 240		
25 - 185		
14 - 31		

②		
IEC	UL	cUL
1000	1000	600
520	500	510
300   10-Kcmil 600		
8   3		
V-0		
≤ 300		
M16		
25 - 240		
50 - 240		
50 - 300		
50 - 240		
25 - 60		

PA 6.6 | -40 to +120°C

PA 6.6 | -40 to +120°C

Qty.	
ADH 185/300 BG <b>17123.2</b>	10
ADH 185/300 BU <b>17123.5</b>	10
ADH 185/300 YE <b>17123.8</b>	10
QS 2/185/12 <b>17243.0</b>	10
QS 3/185/12 <b>17244.0</b>	10
ES 35/K/ST BG <b>2828.0</b>	50
PMC SB 6/50 WH <b>4702.7</b>	500

Qty.	
ADH 185/300 BG <b>17123.2</b>	10
ADH 185/300 BU <b>17123.5</b>	10
ADH 185/300 YE <b>17123.8</b>	10
QS 2/300/16 <b>17245.0</b>	10
QS 3/300/16 <b>17246.0</b>	10
ES 35/K/ST BG <b>2828.0</b>	50
PMC SB 6/50 WH <b>4702.7</b>	500

