

Terminal blocks



Terminal blocks with screw connections

- ➔ Description page 702
- ➔ Feed-through terminals page 706
- ➔ Disconnecting terminals page 710
- ➔ Combined terminals page 712
- ➔ Initiator terminals page 713
- ➔ Distribution terminals page 713
- ➔ Fuse terminals page 715
- ➔ Earth conductor terminals page 717
- ➔ Pick-a-back terminals page 719
- ➔ Railless feed-through terminals page 720
- ➔ Accessories page 722

Description

screw connections



MADE IN GERMANY

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Terminal blocks with screw connections

Summary information

Schlegel terminal blocks are standard terminals for industrial applications, especially for electrical machine controls, for switching, distribution and measuring systems and for the lift and apparatus construction. The terminal blocks are suitable for high and low current, as well as for direct and alternating current. They are featuring by a short assembly time and their small dimensions. With a complete documentation of the production process according

to ISO 9001, we guarantee the highest quality standards. Precise mold construction is an important prerequisite for the production of high quality terminal blocks. That is why we are manufacturing our production tools ourselves since many years in order to retain control on one of the most important quality criteria.

Conductivity

To ensure a tight contact between conductor and metal (clamping) body with the lowest possible contact resistance, several factors are playing an important role. That includes the use of solid, drawn or bent metal (clamping) bodies and corrosion-proof materials, such as e.g. nickel-plated copper alloys, and soft surface coatings as e.g. tin in which the conductors can "embed". Even the wire protection bracket, preventing the wire from screw damage, provides a high contact pressure. The relatively large conductor cross-sections of the terminals reduce voltage drop to a minimum.

Schlegel also uses zinc-plated steel for the foot of the earth terminal where a safe contact to the support rail (= earthing) is extremely important.

On screw-type terminals the quality of the screws dictates the quality of the terminal connection. Even when applying high tightening torques, the screws must not break nor melt with the female thread. For this reason, Schlegel terminal blocks are using rolled steel screws with a good galvanic surface coating with passivated zinc. The structure of rolled screws is compressed and strengthened, contrary to turned screws which have damaged fibres. The combination of steel screws and female threads made of copper alloy or steel successfully avoids melting, as can happen with brass-brass combinations.

Insulation

Insulating casings (insulating bodies) ensure the insulation from the surrounding area and the adjacent terminals. They must comply with the national and international specifications with regard to the creepage distance (transmission along the surface) and clearance distance (transmission through the air). This is achieved both by using high-quality polyamide 6.6 and by the specific construction of Schlegel terminal blocks (cavities in the casings extending the creepage distance).

The variety of approvals which Schlegel terminal blocks have

obtained worldwide are assured by utilising top-quality raw materials. The exclusive use of such materials is monitored by regular follow-up inspections carried through by the approval authorities.

The higher the quality of the insulating material, the smaller can be the creepage distance. As a matter of fact, using high-quality plastics exerts direct influence on the external dimensions of a terminal block: The better the material, the smaller the terminal!

Installation

Considering the respective connection diameter, Schlegel screw-type terminals are the smallest terminals in the market with regard to their

height, length (across the support rail) and width (in line with the rail). At the same time they have a relatively large clamping space compared to competitors' products.

Wire insertion

For screw-type terminals the conductor must be stripped before wiring. The optimal insulation stripping length must be observed as defined in the description of the relative terminals.

Basically, the Schlegel terminal blocks securely accept all wire types (solid, multiple and fine-stranded) even without wire end ferrules. Soldering of fine-stranded conductors is prohibited, because the tin-solder tends to creep.

The grading system of the available rated cross-sections is standardised (1.5/2.5/4/6/... mm²) and defined in a way to enable the trouble-free connection of conductors with ferrules or solid conductors to the cross-section next in size without having to use the next larger terminal size (this does not apply to multiple or

fine-stranded conductors!).

The Schlegel product portfolio offers terminals for the most popular rated cross-sections. With the 4mm² screw-type terminal Schlegel offers the cheapest terminal in this most frequently demanded range. Also, it should be pointed out that Schlegel terminals for 4mm² rated cross-section accept conductors down to 0.2mm in diameter. In case of screw-type terminals with very large rated cross-sections (IK120 and IK240) the conductors are connected using cable lugs. It should be taken care to use wide partition walls between two such terminals sizes in order to insulate the blank cable lugs against each other.

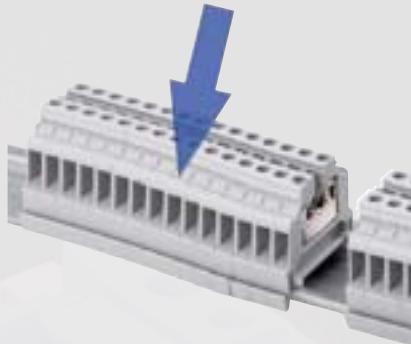
Assembly

The screws of Schlegel terminals are tightened or loosened by means of a slotted-screw driver or a customary hexagonal screwdriver (for the large-sized terminals). The interlocking insulating bodies of the Schlegel terminals facilitate the assembly work. Due to this interlocking feature it is also possible to snap on the terminals as pre-assembled blocks. Another advantage of this interlocking system is the straight alignment of all terminals, even in case of different tractive forces of the wires or a slightly bent support rail.

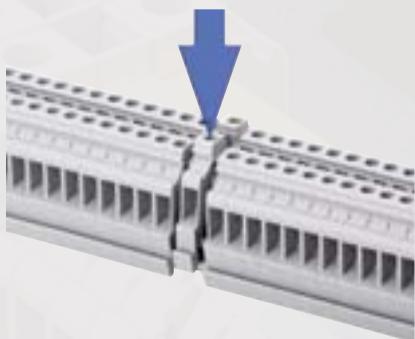


1. Slide-fitting of pre-assembled terminal blocks

Moreover, once snapped onto the rail, the terminal feet are relieved from stress which prevents material fatigue. However, if individual terminals have to be exchanged, the end clamp bracket must be loosened and the adjacent terminals must be shifted slightly. But this disadvantage takes only effect on the small number of exchanged terminals whereas the specified advantages become effective in general.



2. Snap fitting of pre-assembled terminal blocks
Important:
Once the terminals are mounted onto the rail, the snap-fit terminal feet are relieved from stress preventing the plastics from material fatigue.



3. Snap or slide fitting of individual terminals



4. Replacement of individual terminals: Once the terminal to be replaced has been set free by slightly shifting the adjacent terminals aside (each by approx. 3mm), it can be easily levered out by applying a screwdriver to the terminal foot.

Mounting on support rail N35

Schlegel terminal blocks have feet that simply snap onto the terminal rail from both sides and can be easily levered out with a screwdriver. Also, the terminals can be easily滑 on the mounting rail from the side.

Rail-less mounting

The terminals FK5 (for a rated cross-section of 4mm²) and FK16 (for a rated cross-section of 16mm²) are directly mounted e.g. on a switch cabinet. Since the terminals interlock securely into one another, only every 10th terminal has to be tightened by a screw. Attention should be paid to the fact that the FK5 and FK16 have different interlocking pins. Therefore, they cannot be mixed up when mounted.

PCB-mounting

The 1.5mm² terminals with screw connection (type ref.: GKL3) are directly soldered onto a PCB. Two soldering pins keep the terminals in place even when tightening the screw strongly (protection of the solder connections). Moreover, the wire inserts of the terminals face upwards inclining by 30° from the horizontal in order to facilitate wire insertion. The galvanic tin-plating on a nickel diffusion barrier ensures excellent solderability.

Description

screw connections

MADE IN GERMANY

SCHLEGEL®
ELEKTROKONTAKT

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

"OSK - original Schlegel clamping system"

On the screw-type terminals with wire protection bracket the conductors are pressed onto the basis of the conductive clamping body by the lower foot of the wire protection bracket which is fastened by a screw. This system is called the "OSK" system



Secure wire insertion due to:

1. insulating walls next to wire insertion opening of the metal body,
2. reliable opening of the clamp when loosening the screws (because wire protection bracket snap-fits below screw head) and
3. limitation of clamping space by the lower arm of the wire protection bracket, thus no slipping of single wires or strands.



Direct clamping pressure transmission onto the wire at full bearing of the screw and protection of the wire (no damaging or piercing by the screw)

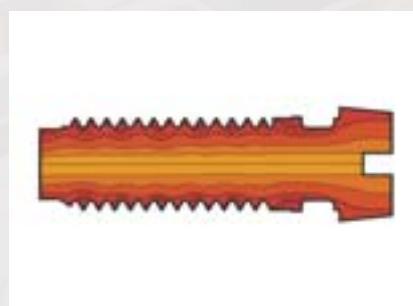


Security against tilting of the clamp (the solid metal clamping body prevents the connection "cages" from tilting when using thin wires)

(original Schlegel clamping system), because it is unique in the terminal market. This construction ensures the so-called "Six securities" :



Security against screw loosening under vibration by the resilient wire protection bracket that presses against the screw head (this makes the screws captive).



High tightening torque:

The Schlegel terminals have rolled screws which, contrary to turned screws, feature a high-compressed structure with unbroken fibres in the thread area. The very high mechanical strength properties are achieved by thread rolling and assure high tightening torques



Security against wire loosening thanks to resilient wire protection brackets and elastic deformation properties of the clamping body

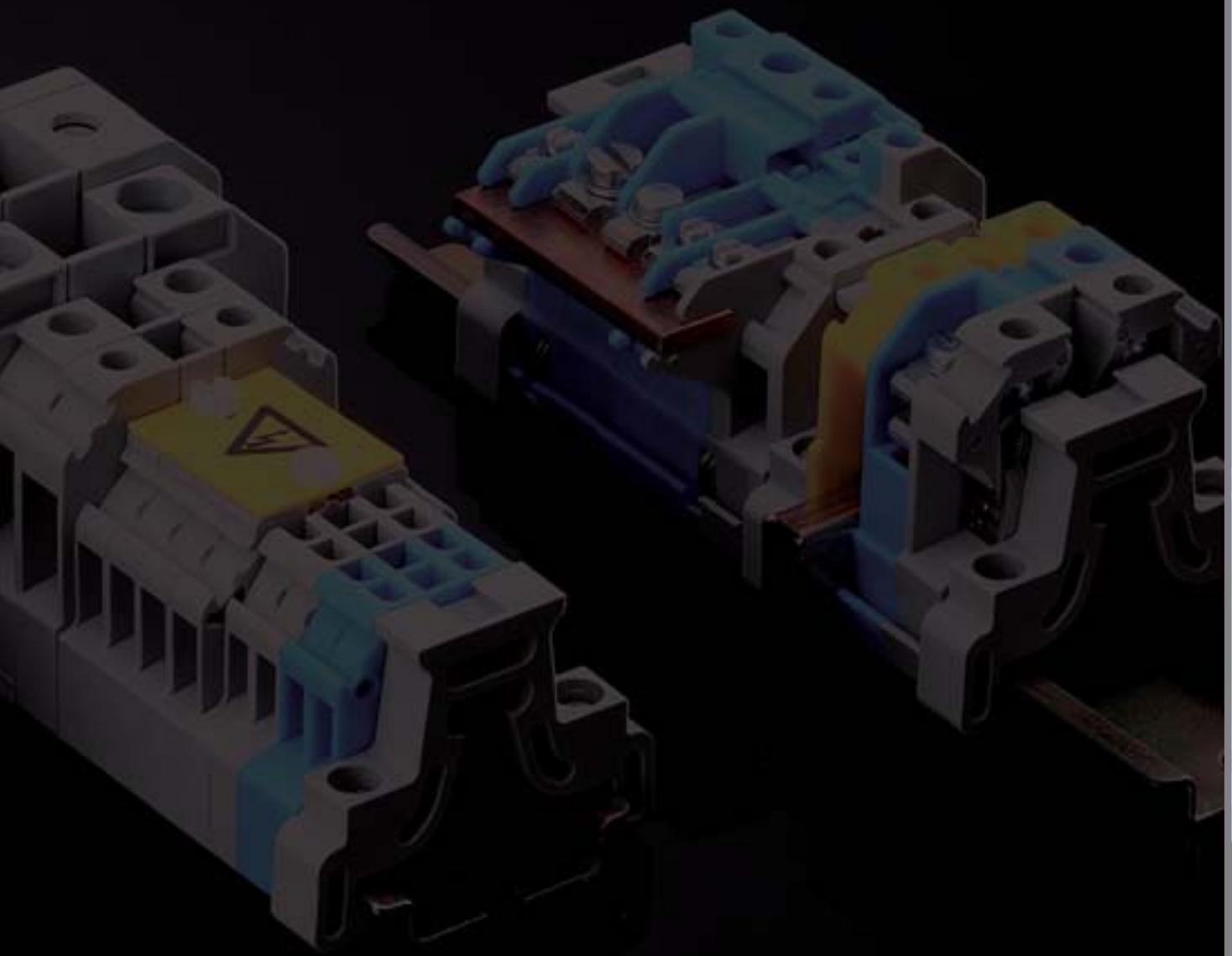
Miniature terminals

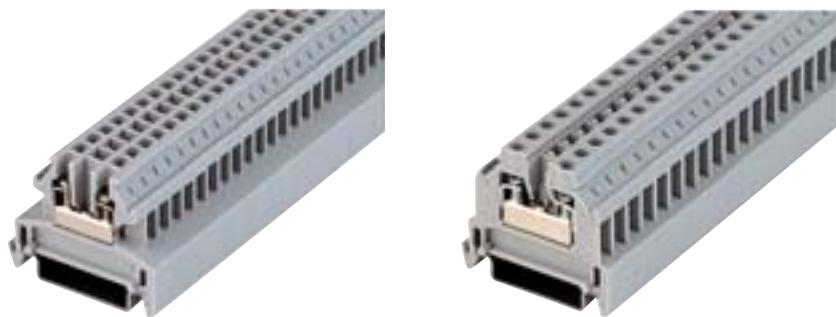
The miniature screw-type terminals for 2.5mm² (type ref. HK3) are normal feed-through terminals (same as IK3), which does not fit the top-hat rail N35 but snaps on its smaller variant N15. Accordingly, they are smaller in dimension, apart from their width.

Terminal blocks with flat-plug connections

Brief description

Particularly for the automotive industry, Schlegel also offer 4mm²-terminals with 2 x 2 flat plug connections for 6.3mm insulating sleeves (type ref. IZZ4). This connection system features very quick and easy connection of the conductors, keeping them well in place.

[About Us](#)[Pushbuttons/Switches](#)[Panel Mount Jacks](#)[Emergency/Stop Buttons](#)[Bus Technology](#)[RFID](#)[Enclosures](#)[Pedal Switches](#)[→ Terminal Blocks](#)[Type Index](#)



Quick-assembly terminal blocks

2.5 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

Top hat rail N35, EN60715 TH35

5.1 mm



Quick-assembly terminal blocks

4 mm²

0.5 ... 6 mm²

0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

rated cross section

solid

multiple wire

mounting method

terminal width

tightening torque

rated voltage

rated current

operating temperature

data acc. to IEC 60947-7-1

flammability rating acc. to UL94

pollution degree

overvoltage category

material group

rated impulse voltage

stripping length

data acc. to UL1059

tightening torque

connection range (solid wire)

rated voltage

rated current

data acc. to CSA C22.2 No 158-1987, ECN 548B

tightening torque

connection range (solid wire)

rated voltage

rated current

identification labels

end sections

jumpers

0.5 Nm

750 V

25 A

-30°C ... 40°C

V2

3

III

II

8 mm

0.8 Nm

750 V

32 A

-30°C ... 40°C

V2

3

III

I

9 mm

9...13 lb in

10-22 AWG

600 V

30 A

20-10 AWG

600 V

40 A

HSKM50...

IW2, IW4

VB2-12, VB2-2

HSKM60...

IW16, IW4

VB4-12, VB4-2

Type

light-grey

IK3

light-grey

IK5

blue

IK3BL

blue

IK5BL

**Quick-assembly terminal blocks****10 mm²**0.5 ... 10 mm²0.5 ... 10 mm²

Top hat rail N35, EN 60715 TH35

8 mm

0.8 Nm

830V/1000V (-> Hinweis!)

57 A

-30°C ... 40°C (bei 57A)

V2

3

III

I

11 mm

**Quick-assembly terminal blocks****16 mm²**0.5 ... 16 mm²0.5 ... 16 mm²

Top hat rail N35, EN 60715 TH35

10 mm

1.2 Nm

1000 V

76 A

-30°C ... 40°C

V2

3

III

I

11 mm

**Quick-assembly terminal blocks****25 mm²**10 ... 25 mm²10 ... 25 mm²

Top hat rail N35, EN 60715 TH35

12 mm

2.5 Nm

1000 V

101 A

-30°C ... 40°C

V2

3

III

I

16 mm

18 lb In

6-22 AWG

600 V

65 A

2 Nm

20-6 AWG

600 V

68 A

27 lb In

4-8 AWG Str

600 V

85 A

24-8 AWG

600 V

50 A

10-4 AWG

600 V

70 A

HSMK80...

IW16, IW50

VB6-12, VB6-2

HSMK100...

IW16, IW50

VB16-12, VB16-2

HSMK60...

IW50, IW70

VB25, VBU35

light-grey

IK10

blue

IK10BL

light-grey

IK16

blue

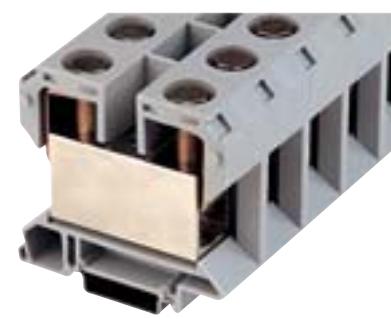
IK16BL

light-grey

IK25

blue

IK25BL1000 V max. when using a partition wall
IW16 between the terminals

**Quick-assembly terminal blocks****50 mm²**2x16/1x16 ... 50 mm²2x16/1x16 ... 50 mm²

Top hat rail N35, EN 60715 TH35

16 mm

**Quick-assembly terminal blocks****70 mm²**25 ... 70 mm²25 ... 70 mm²

Top hat rail N35, EN 60715 TH35

23 mm

rated cross section

solid

multiple wire

mounting method

terminal width

tightening torque

rated voltage

rated current

operating temperature

data acc. to IEC 60947-7-1

flammability rating acc. to UL94

pollution degree

overvoltage category

material group

rated impulse voltage

stripping length

data acc. to UL1059

tightening torque

connection range (solid wire)

rated voltage

rated current

data acc. to CSA C22.2 No 158-1987, ECN 548B

tightening torque

connection range (solid wire)

rated voltage

rated current

identification labels

end sections

jumpers

5,6 Nm

1/0-6 AWG

600 V

150 A

123 Lb In

4/0-2 AWG

600 V

250 A

20 Nm

2-0000 AWG

600 V

200 A

HSKM60...

IW70

VB70, VBU35

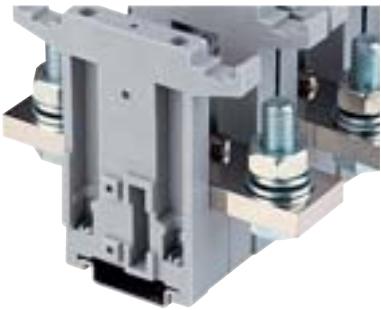
light-grey

blue

IK51**IK51BL**

light-grey

IK70

**Quick-assembly terminal blocks****120 mm²**120 mm²120mm²

Top hat rail N35, EN 60715 TH35

48 mm

**Quick-assembly terminal blocks****240 mm²**240 mm²240mm²

Top hat rail N35, EN 60715 TH35

58 mm

Quick-assembly terminal blocks**4 mm²**

Top hat rail N35, EN 60715 TH35

6.1 mm

10 Nm

750 V

269 A

-30°C ... 40°C

V2

3

III

II

360 Lb In

3/0 AWG

600 V

200 A

0-0000 AWG

600 V

280 A

HSKM100...

IW120

14 Nm

750 V

415 A

-30°C ... 40°C

V2

3

III

II

480 Lb In

300 MCM

600 V

285 A

000 AWG-350 MCM

600 V

380 A

HSKM100...

750 V

32 A

-30°C ... 40°C

V2

3

III

II

HSKM60...

VB4-12, VB4-2

light-grey

IK120

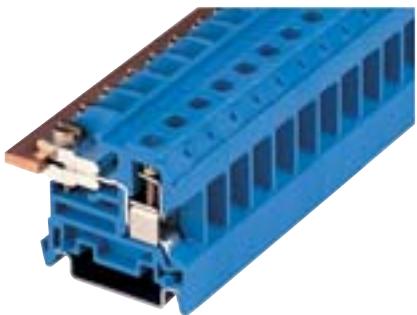
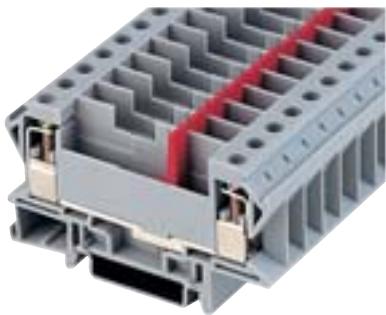
light-grey

IK240

light-grey

IZZ4

		 
rated cross section	Separator terminals	Separator terminals
solid	4 mm²	4 mm²
multiple wire	0.5 ... 4 mm ²	0.5 ... 4 mm ²
mounting method	Top hat rail N35, EN 60715 TH35	Top hat rail N35, EN 60715 TH35
terminal width	6 mm	6 mm
tightening torque	0.8 Nm	0.8 Nm
rated voltage	500 V	500 V
rated current	16 A	16 A
operating temperature	-30°C ... 40°C	-30°C ... 40°C
data acc. to IEC 60947-7-1		
flammability rating acc. to UL94	V2	V2
pollution degree	3	3
overvoltage category	III	III
material group	II	II
rated impulse voltage		
stripping length	7 mm	7 mm
data acc. to UL1059		
tightening torque		
connection range (solid wire)		
rated voltage		
rated current		
data acc. to CSA C22.2 No 158-1987, ECN 548B		
tightening torque		
connection range (solid wire)	22-12 AWG	
rated voltage	300 V	
rated current	20 A	
identification labels	HSKM60...	HSKM60...
end sections	IW16, IW4	IW16, IW4
jumpers		
Type	light-grey	light-grey
	IKT4	IKT4
	IKT4RT	
	IKT4BL	
		Separator terminal + disconnecting plug (captive)
	Separator terminal without disconnecting plug	

**Separator terminals with disconnect slider****10 mm²**0.5 ... 10 mm²0.5 ... 10 mm²

Top hat rail N35, EN 60715 TH35

8 mm

0.8 Nm

500 V

57 A

-30°C ... 40°C

V2

3

III

II

6 kV

9 mm

Neutral wire separator terminals**4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.5 Nm

500 V

32 A

-30°C ... 40°C

V2

3

III

II

8 mm

Neutral wire separator terminals**10 mm²**0.5 ... 10 mm²0.5 ... 10 mm²

Top hat rail N35, EN 60715 TH35

8 mm

0.8 Nm

500 V

57 A

-30°C ... 40°C

V2

3

III

II

10 mm

HSKM80...

IWT10, IWTT10

VBL10, VBT10-4

HSKM60...

IWTR4

HSKM80...

IWTR4

light-grey

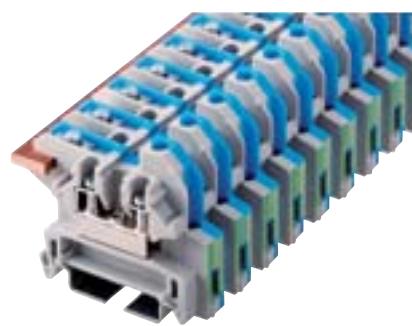
IKT10

blue

IKTR4

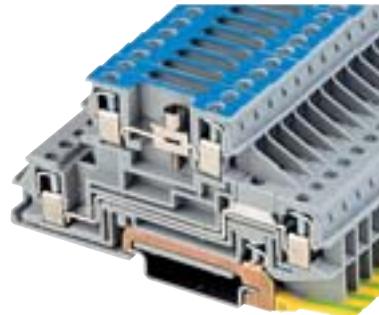
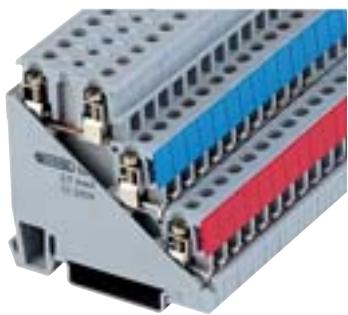
blue

IKTR10



rated cross section	Neutral wire separator terminals 16 mm²	PE/N combined three-wire terminals 4 mm²
solid	0.5 ... 16 mm ²	0.5 ... 6 mm ²
multiple wire	0.5 ... 16 mm ²	0.5 ... 4 mm ²
mounting method	Top hat rail N35, EN 60715 TH35	Top hat rail N35, EN 60715 TH35
terminal width	10 mm	12 mm
tightening torque	1.2 Nm	0.5 Nm
rated voltage	500 V	500 V
rated current	76 A	32 A
operating temperature	-30°C ... 40°C	-30°C ... 40°C
data acc. to IEC 60947-7-1		
flammability rating acc. to UL94	V2	V2
pollution degree	3	3
overvoltage category	III	III
material group	II	II
rated impulse voltage		
stripping length	10 mm	Earth connection terminal 10 mm, separator terminal 7 mm, feed-through terminal 9 mm
data acc. to UL1059		
tightening torque		
connection range (solid wire)		
rated voltage		
rated current		
data acc. to CSA C22.2 No 158-1987, ECN 548B		
tightening torque		
connection range (solid wire)		
rated voltage		
rated current		
identification labels	HSKM100...	HSKM50...
end sections	IWTR4	IW2
jumpers		
Type	blue	IKTR16
Type	blue/light-grey	IKTRED

Combined three-wire terminal for the neutral, for the phase and for the PE conductor (with green/yellow marking)

**Initiator terminals****2.5 mm²**0.5 ... 2.5 mm²0.5 ... 2.5 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.5 Nm

24 A

-30°C ... 40°C

V2

3

III

II

Feed-through terminal 7 mm,
connecting rail connectors 8 mm**Distribution terminals****4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.8 Nm

380 V

32 A

-30°C ... 40°C

V2

3

III

II

7 mm / earth connection terminal 10 mm

Distribution terminals**4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.8 Nm

380 V

32 A

-30°C ... 40°C

V2

3

III

II

7 mm / earth connection terminal 10 mm

HSKM60...

HSKM60...

HSKM60...

IWEPTR

IWEPTR

VB4-12, VB4-2

VB4-12, VB4-2

light-grey

IKI4

light-grey

IKEPTR

light-grey

IKEPT

PE conductor on support rail, neutral wire
isolation on busbarPE conductor on support rail, neutral wire
isolation



rated cross section	Distribution terminals 4 mm²		Distribution terminals 4 mm²	
solid	0.5 ... 6 mm ²		0.5 ... 6 mm ²	
multiple wire	0.5 ... 4 mm ²		0.5 ... 4 mm ²	
mounting method	Top hat rail N35, EN 60715 TH35		Top hat rail N35, EN 60715 TH35	
terminal width	6 mm		6 mm	
tightening torque	0.8 Nm		0.8 Nm	
rated voltage	380 V		380 V	
rated current	32 A		32 A	
operating temperature	-30°C ... 40°C		-30°C ... 40°C	
data acc. to IEC 60947-7-1				
flammability rating acc. to UL94	V2		V2	
pollution degree	3		3	
overvoltage category	III		III	
material group	II		II	
rated impulse voltage	Earth connection terminal 10 mm, neutral wire 9 mm, feed-through terminal 7 mm			
stripping length	9 / 7 mm			
data acc. to UL1059				
tightening torque				
connection range (solid wire)				
rated voltage				
rated current				
data acc. to CSA C22.2 No 158-1987, ECN 548B				
tightening torque				
connection range (solid wire)				
rated voltage				
rated current				
identification labels	HSKM60...		HSKM60...	
end sections	IWEPTR		IWEPTR	
jumpers	VB4-12, VB4-2		VB4-12, VB4-2	
Type	light-grey	IKEPN	light-grey	IKPP
	PE conductor on support rail, continuous neutral wire		2-pole feed-through terminal	

**Distribution terminals****4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.8 Nm

380 V

32 A

-30°C ... 40°C

V2

3

III

II

Earth connection terminal 10 mm, feed-through terminal 7 / 9 mm

Fuse terminals**4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

10 mm

0.8 Nm

500 V

6.3 A

-30°C ... 40°C

V2

3

III

II

7 mm

**Fuse terminals****4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

8.1 mm

0.5 Nm

250 V

6.3 A

-30°C ... 40°C

V2

3

III

II

4 kV

7 mm

10 Lb In

14-22 AWG

300 V

10 A

24-12 AWG

150 V

15 A

HSKM60...

IWEPTR

VB4-12, VB4-2

HSKM100...

HSKM80...

light-grey

IKEPP

light-grey

IKSI4

light-grey

IKSIS

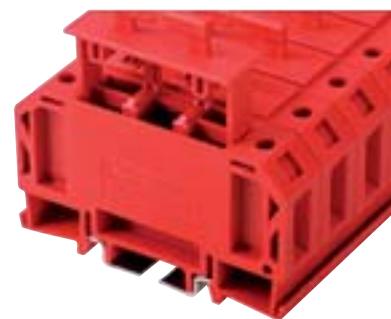
red

IKSISRT

2-pole, PE conductor on support rail

with fuseholder, fuse cartridge*) not included, please order separately *) fuse cartridges acc. to DIN 41571

for G-fuses 5x20 mm, with fuseholder, fuse cartridge*) not included, please order separately *) fuse cartridges acc. to DIN 41571



	Fuse terminals 4 mm²	Fuse terminals 6 mm²
rated cross section		
solid	0.5 ... 6 mm ²	0.5 ... 6 mm ²
multiple wire	0.5 ... 4 mm ²	0.5 ... 6 mm ²
mounting method	Top hat rail N35, EN 60715 TH35	Top hat rail N35, EN 60715 TH35
terminal width	8.1 mm	16 mm
tightening torque	0.8 Nm	0.8 Nm
rated voltage		850 V
rated current	20 A max.	13.5 A/20 A max. (composite/individual arrangement)
operating temperature	-30°C ... 40°C	-30°C ... 55°C
data acc. to IEC 60947-7-1		
flammability rating acc. to UL94	V2	V0
pollution degree	3	3
overvoltage category	III	III
material group	II	I
rated impulse voltage		
stripping length	7 mm	9 mm
data acc. to UL1059		
tightening torque		
connection range (solid wire)		8-22 AWG
rated voltage		600 V
rated current		20 A
data acc. to CSA C22.2 No 158-1987, ECN 548B		
tightening torque		
connection range (solid wire)		
rated voltage		
rated current		
identification labels	HSKM80...	
end sections		
jumpers		KVS10-8
Type	light-grey	IKFS15
	red	IKSI10
		IKSI10RT

For automotive fuse links, used e.g. in construction machinery and caravans.

for 10,3x38 mm fuses
incl. fuseholder but without cartridge fuses
(please order separately)

**Earth connection terminals****4 mm²**0.5 ... 4 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

7.5 mm

0.5 Nm

-30°C ... 40°C

V2

3

III

9 mm

8 Lb In

10-22 AWG

HSKM80...

yellow/green

IKE4**Earth connection terminals****10 mm²**4 ... 10 mm²4 ... 10 mm²

Top hat rail N35, EN 60715 TH35

8.5 mm

0.8 Nm

-30°C ... 40°C

V2

3

III

10 mm

13.3 Lb In

8 AWG, Str

HSKM80...

yellow/green

**Earth connection terminals****16 mm²**0.5 ... 16 mm²0.5 ... 16 mm²

Top hat rail N35, EN 60715 TH35

10.5 mm

1.2 Nm

-30°C ... 40°C

V2

3

III

11 mm

18 Lb In

6 AWG, Str

HSKM100...

yellow/green



About Us

Pushbuttons/Switches

Panel Mount Jacks

Emergency/Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

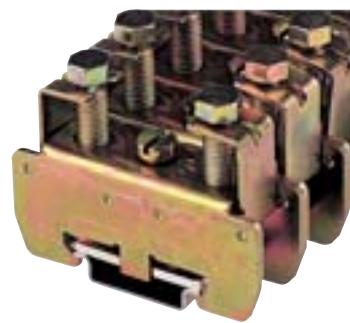
→ Terminal Blocks

Type Index

Please follow the instructions about the electrical short-term withstand current of top hat rails.

Please follow the instructions about the electrical short-term withstand current of top hat rails.

Please follow the instructions about the electrical short-term withstand current of top hat rails.



rated cross section

solid

multiple wire

mounting method

terminal width

Earth connection terminals

35 mm²

2x16/1x16 35 mm²

2x16/1x16 35 mm²

Top hat rail N35, EN 60715 TH35

19 mm

Earth connection terminals

70 mm²

16 70 mm²

16 70 mm²

Top hat rail N35, EN 60715 TH35

20 mm

tightening torque

5.6 Nm

6 Nm

rated voltage

rated current

operating temperature

-30°C ... 40°C

-30°C ... 40°C

data acc. to IEC 60947-7-1

flammability rating acc. to UL94

V2

pollution degree

3

3

overvoltage category

III

III

material group

II

rated impulse voltage

stripping length

13 mm

22 mm

data acc. to UL1059

tightening torque

connection range (solid wire)

rated voltage

rated current

data acc. to CSA C22.2 No 158-1987, ECN 548B

tightening torque

connection range (solid wire)

rated voltage

rated current

identification labels

HSKM100...

end sections

jumpers

Type

IKE51

IKE70

Please follow the instructions about the electrical short-term withstand current of top hat rails.

Please follow the instructions about the electrical short-term withstand current of top hat rails.

**Pickaback terminals****4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0.5 Nm

750 V

32 A

-30°C ... 40°C

V2

3

III

II

7 mm

9...13 Lb In

10-22 AWG

600 V

30 A

20-10 AWG

600 V

40 A

HSKM60...

IWH4

VB4-12, VB4-2

light-grey

IKH4

blue

IKH4BL**Double-level terminal****4 mm²**0.5 ... 6 mm²0.5 ... 4 mm²

Top hat rail N35, EN 60715 TH35

6 mm

0,5...0,8 Nm

750 V

32 A

-30°C ... 40°C

V2

3

III

I

top level 9 mm, bottom level 7 mm

9...13 Lb In

10-22 AWG

600 V

30 A

18-12 AWG

300 V

25 A

HSKM60...

HSKM60_1-100, IWD5

VB4-12, VB4-2

**Miniature terminals****2.5 mm²**0.5 ... 4 mm²0.5 ... 2.5 mm²

Top hat rail N 15

5.1 mm

0.5 Nm

500 V

25 A

-30°C ... 40°C

V2

3

III

II

8 mm

5 Lb In

22-12 AWG

300 V

20 A

HSKM50...

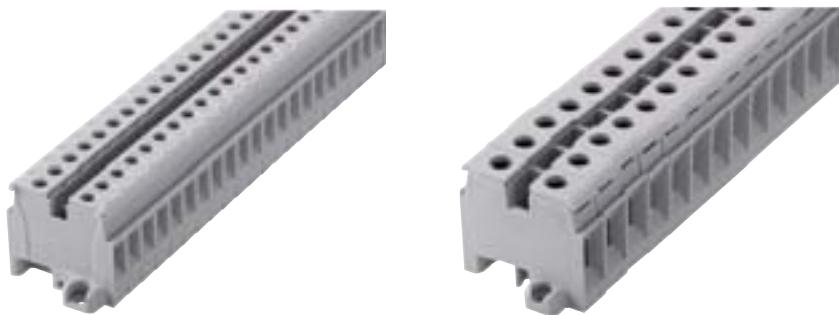
EH2

VB2-12, VB2-2

light-grey

HK3

Terminal types that fit on the second level:
IK3 up to IK16, IKS14, IKT4, IKTR4, IKTR16



Rail-less terminal blocks

4 mm²

0.5 ... 6 mm²

0.5 ... 4 mm²

screw fastening

6.9 mm

Rail-less terminal blocks

16 mm²

0.5 ... 16 mm²

0.5 ... 16 mm²

screw fastening

10 mm

rated cross section

solid

multiple wire

mounting method

terminal width

tightening torque

rated voltage

rated current

operating temperature

data acc. to IEC 60947-7-1

flammability rating acc. to UL94

pollution degree

overvoltage category

material group

rated impulse voltage

stripping length

data acc. to UL1059

tightening torque

connection range (solid wire)

rated voltage

rated current

data acc. to CSA C22.2 No 158-1987, ECN 548B

tightening torque

connection range (solid wire)

rated voltage

rated current

identification labels

end sections

jumpers

0.8 Nm

750 V

32 A

-30°C ... 40°C

1.2 Nm

750 V

76 A

-30°C ... 40°C

V2

3

III

II

11 mm

18 lb in

6-22 AWG

600 V

65 A

6 AWG

600 V

80 A

HSKM60...

HSKM100...

VBS4-2, VBS4-3

VB16-2

Type

light-grey

FK5

light-grey

FK16

Easy and simple mounting. Screw every tenth terminal to secure the interlocking of the terminal row.

Easy and simple mounting. Screw every tenth terminal to secure the interlocking of the terminal row.

**Rail-less terminal blocks****1.5 mm²**0.15 ... 1.5 mm²0.15 ... 1.5 mm²

PCB-mount terminals

5mm

0.5 Nm

250 V

-30°C ... 40°C

V2

7 mm

HSKM50...

GWL3

light-grey

GKL3Fixation on PCB: 2 soldering pins for PCB's
with 1.3 mm holesWire insertion: at an angle of 30° upward
from the horizontal line

About Us

Pushbuttons/Switches

Panel Mount Jacks

Emergency/Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

Type Index

→ Terminal Blocks

Accessories

MADE IN GERMANY

SCHLEGEL
ELEKTROKONTAKT

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

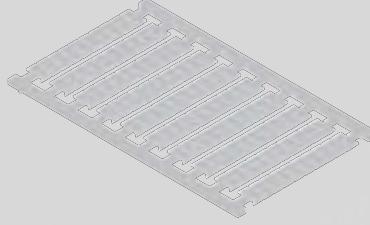
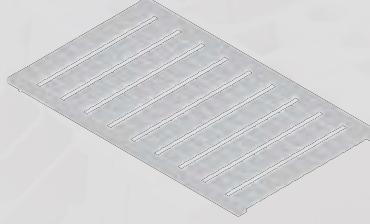
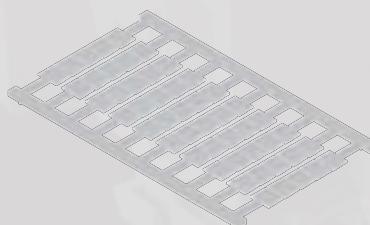
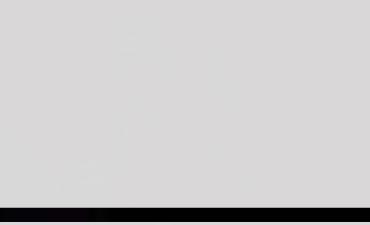
RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

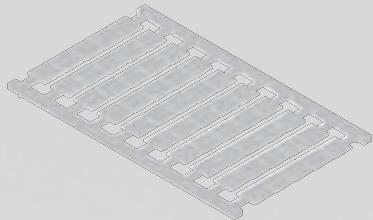
Illustration	Dimensions	Description	Type
Accessories			
		Identification labels, blank 100-piece sheet suitable for GKL3, HK3, IK3, IKTRED, IK3BL	HSKM50U
		Identification labels, printed 100-piece sheet printed from 1 ... 100 other imprints on request suitable for GKL3, HK3, IK3, IKTRED, IK3BL	HSKM50_1-100
		Identification labels, blank 100-piece sheet suitable for FK5, IK25, IK5, IK51, IK70, IKEPN, IKEPP, IKEPT, IKEPTR, IKH4, IKI4, IKPP, IKT4, IKTR4, IKTS4, IZZ4, IK5BL, IK25BL, IK51BL, IKT4RT, IKT4BL, IKH4BL, IKD5	HSKM60U
		Identification labels, printed 100-piece sheet printed from 1 ... 100 other imprints on request suitable for FK5, IK25, IK5, IK51, IK70, IKEPN, IKEPP, IKEPT, IKEPTR, IKH4, IKI4, IKPP, IKT4, IKTR4, IKTS4, IZZ4, IK5BL, IK25BL, IK51BL, IKT4RT, IKT4BL, IKH4BL, IKD5	HSKM60_1-100
		Identification labels, blank 50-piece sheet suitable for IK10, IKE10, IKE4, IKFSI5, IKS15, IKT10, IKTR10, IK10BL	HSKM80U
		Identification labels, printed 50-piece sheet printed from 1 ... 50 other imprints on request suitable for IK10, IKE10, IKE4, IKFSI5, IKS15, IKT10, IKTR10, IK10BL	HSKM80_1-50
		Identification labels, printed 50-piece sheet printed from 51 ... 100 other imprints on request suitable for IK10, IKE10, IKE4, IKFSI5, IKS15, IKT10, IKTR10, IK10BL	HSKM80_51-100

Illustration

Dimensions

Description

Type


**Identification labels, blank
50-piece sheet**

suitable for

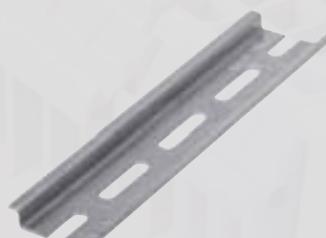
FK16, IK120, IK16, IK240, IKE16, IKE51, IKSI4, IKTR16, IK16BL

HSKM100U
**Identification labels, printed
50-piece sheet**

printed from 1 ... 50

other imprints on request
suitable for

FK16, IK120, IK16, IK240, IKE16, IKE51, IKSI4, IKTR16, IK16BL

HSKM100_1-50
Top-hat rail N35-7.5 mm

The rails are made of rolled sheet steel, galvanised and passivated.
Short-time current resistance: 1.92kA
2 m long

N35-2
Top-hat rail N35-7.5 mm, punched

The rails are made of rolled sheet steel, galvanised and passivated.
Short-time current resistance: 1.92kA
2 m long

N35L-2
Top-hat rail N35-15 mm, punched

The rails are made of rolled sheet steel, galvanised and passivated.
Short-time current resistance: 6kA
2 m long

N35L-2_15MM
End clamp bracket

used as a fixing bracket at the end of a row of terminal blocks
fits on N35-2, N35L-2, N35L-2_15MM rails

SK35

About Us

Pushbuttons/Switches

Panel Mount Jacks

Emergency/Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Accessories

MADE IN GERMANY

SCHLEGEL
ELEKTROKONTAKT

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Illustration	Dimensions	Description	Type
--------------	------------	-------------	------



End clamp bracket, reinforced version

used as a fixing bracket at the end of a row of terminal blocks, for terminal blocks from 50 mm² up the reinforced version is recommended,
fits on N35-2, N35L-2, N35-2_15MM rails

SKS35



End clamp bracket

used as a fixing bracket at the end of a row of terminal blocks
fits on N15-2 rails

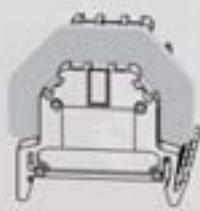
SK15



Insulated end section

The end section of each terminal size is designed in a way that it can be used as partition for the next smallest terminal size,
fits on

IK3, IKTRED, IK3BL	IW2
IK3, IK5, IKT4, IKTS4, IK3BL, IK5BL, IKT4RT, IKT4BL	IW4
IKD5	IWD5
IK5, IK10, IK16, IK5BL, IK10BL, IK16BL, IKT4, IKT4RT, IKT4BL, IKTS4	IW16
IK10, IK16, IK25, IK10BL, IK16BL, IK25BL	IW50
IK51, IK51BL	IW51
IK25, IK51, IK70, IK25BL, IK51BL	IW70
IKEPTR, IKEPT, IKEPN, IKPP, IKEPP	IWEPTR
IKT10	IWT10
IKTR4, IKTR10, IKTR16	IWTR4
IZZ4	IWZZ4
HK3	EH2
GKL3	GWL3



Insulating partition, large size

fits on
IK3, IK5, IK3BL, IK5BL

ITW4

Insulating partition

fits on
IKT10
IK120, IK240

IWT10
TW240

Illustration

Dimensions

Description

Type

**Jumper, 2 poles**

to connect adjacent terminals

max. current load:

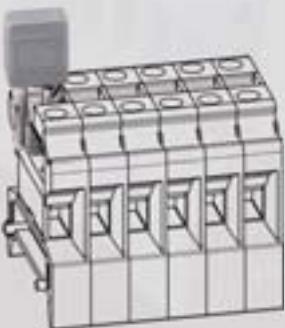
the permissible total current running through the jumper must not exceed the rated current of the respective terminal blocks

2 poles, suitable for

IK3, HK3, IK3BL	VB2-2
IK3, HK3, IK3BL	VB2-12
IK5, IZZ4, IKH4, IKEPTR, IKEPT, IKEPN, IKPP, IKEPP, IK5BL, IKH4BL, IKD5	VB4-2
IK5, IZZ4, IKEPTR, IKEPT, IKEPN, IKPP, IKEPP, IKH4, IK5BL, IKH4BL, IKD5	VB4-12
FK5	VBS4-2
FK5	VBS4-3
IK10, IK10BL	VB6-2
IK10, IK10BL	VB6-12
IK16, FK16, IK16BL	VB16-2
IK16, IK16BL	VB16-12
IK25, IK25BL	VB25
IK51, IK51BL	VB35
IK70	VB70

**Connecting Strap**to connect adjacent 2 jumpers,
suitable for

IK3, HK3, IK3BL	VL2-2
IK5, IKH4, FK5, IKEPN, IKPP, IKEPP, IK5BL, IKH4BL	VL4-2
IK10, IK10BL	VL6-2
IK16, FK16, IK16BL	VL16-2
IK25, IK25BL	VL25
IK25, IK25BL	VL25-3
IK51, IK51BL	VL35-3
IK70	VL70
IK70	VL70-3

**Connecting plug**for bridging two terminals
suitable for

IKT10	VST10
-------	--------------

Accessories

MADE IN GERMANY

SCHLEGEL
ELEKTROKONTAKT

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

RFID

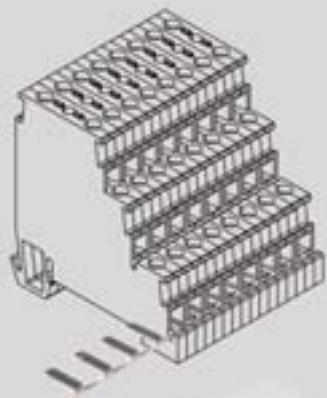
Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Illustration	Dimensions	Description	Type
--------------	------------	-------------	------



Comb-type jumper

fits on

IKFSI5

IKI4

KVFI4-12

KVI4-12

IKSI10RT, IKSI10

KVS10-8

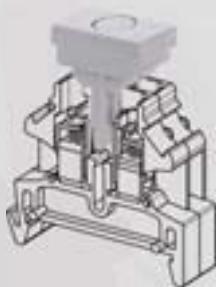


Disconnecting plug

suitable for

IKT4, IKT4RT, IKT4BL

TS4



Quenching diode plug

with diode up to 400V / 1A, the diode plugs have reverse polarity protection,

suitable for

IKT4, IKT4RT, IKT4BL

DSL



Diode plug, blue

with diode up to 400V / 1A, the diode plugs have reverse polarity protection,

suitable for

IKT4, IKT4RT, IKT4BL

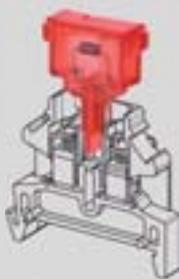
DS_BL

Illustration

Dimensions

Description

Type

**Diode plug, red**

with diode up to 400V / 1A, the diode plugs have reverse polarity protection,
suitable for

IKT4, IKT4RT, IKT4BL

DS_RT

**Fuseholder**

suitable for

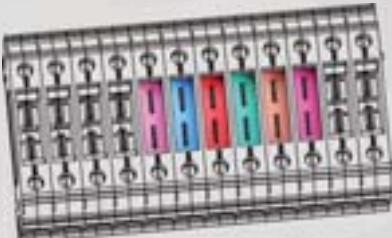
IKSI4

SH20

**Cartridge fuse DIN 41571**

0.125A, suitable for

SP20-0,125
SP20-0,2
SP20-0,5
SP20-0,8
SP20-1,0
SP20-1,6
SP20-2,0
SP20-4,0
SP20-6,3

**Colour identification plate**

suitable for IKFSI5

colour: violet

EP3
EP4
EP5
EP7,5
EP10
EP15
EP20
EP25
EP30

**Test plug**

test plug for plug socket STB2

2 mm

suitable for

IK5, IKH4, FK5, IK5BL, IKH4BL

IK16, IK25, IK51, IK70, IKT10, FK16, IK16BL, IK25BL, IK51BL

PST2
PST4

About Us

Pushbuttons/Switches

Panel Mount Jacks

Emergency/Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Accessories

MADE IN GERMANY

SCHLEGEL®
ELEKTROKONTAKT

About Us

Pushbuttons / Switches

Panel Mount Locks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

→ Terminal Blocks

Type Index

Illustration

Dimensions

Description

Type

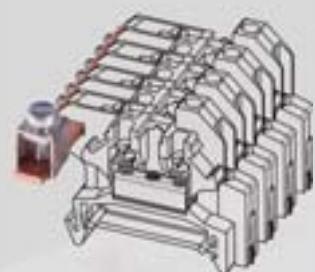


Neutral busbar

10x3mm, 1 m long, bare copper
suitable for

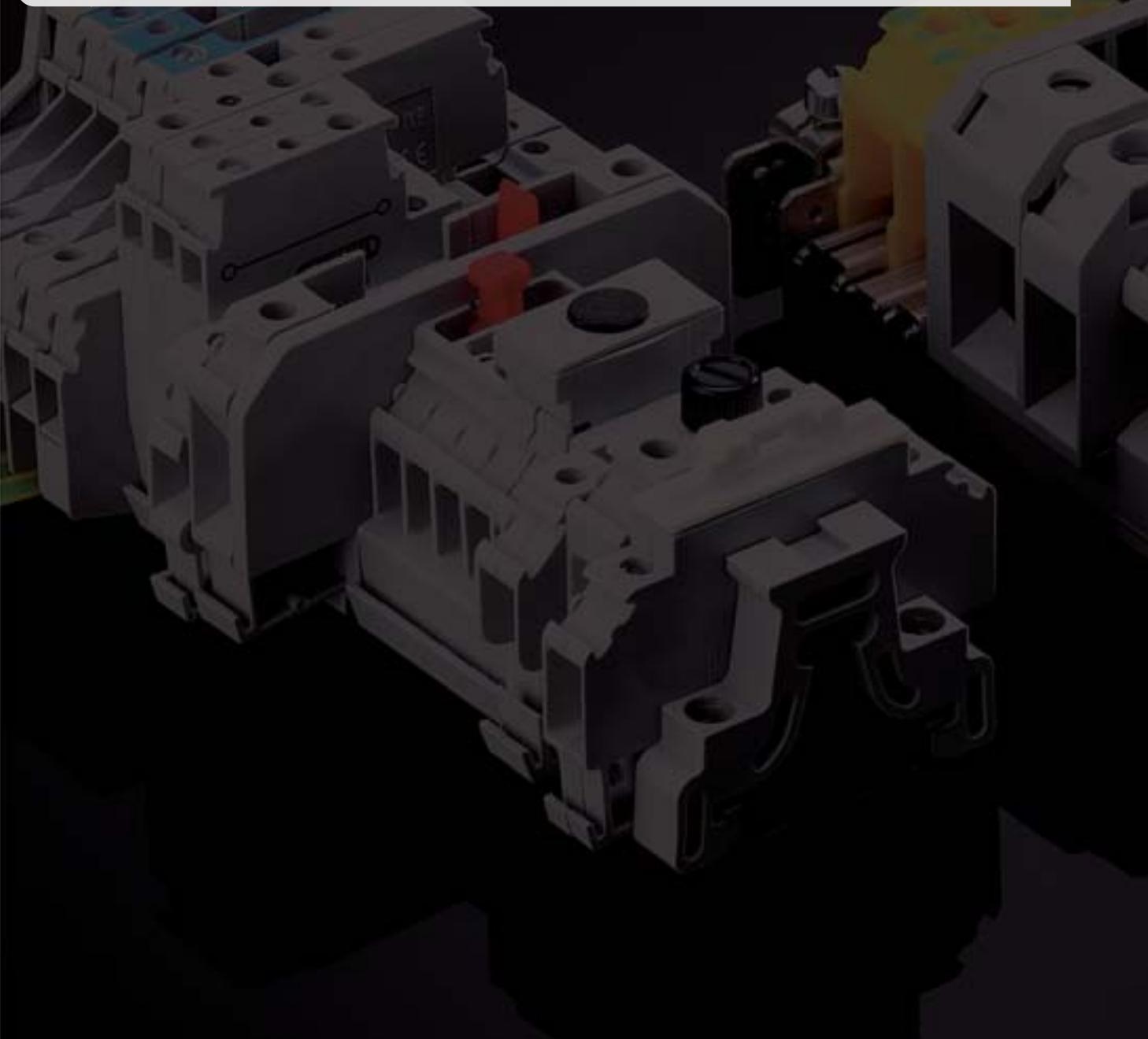
IKTR4, IKTR10, IKTR16, IKTRED, IKEPTR

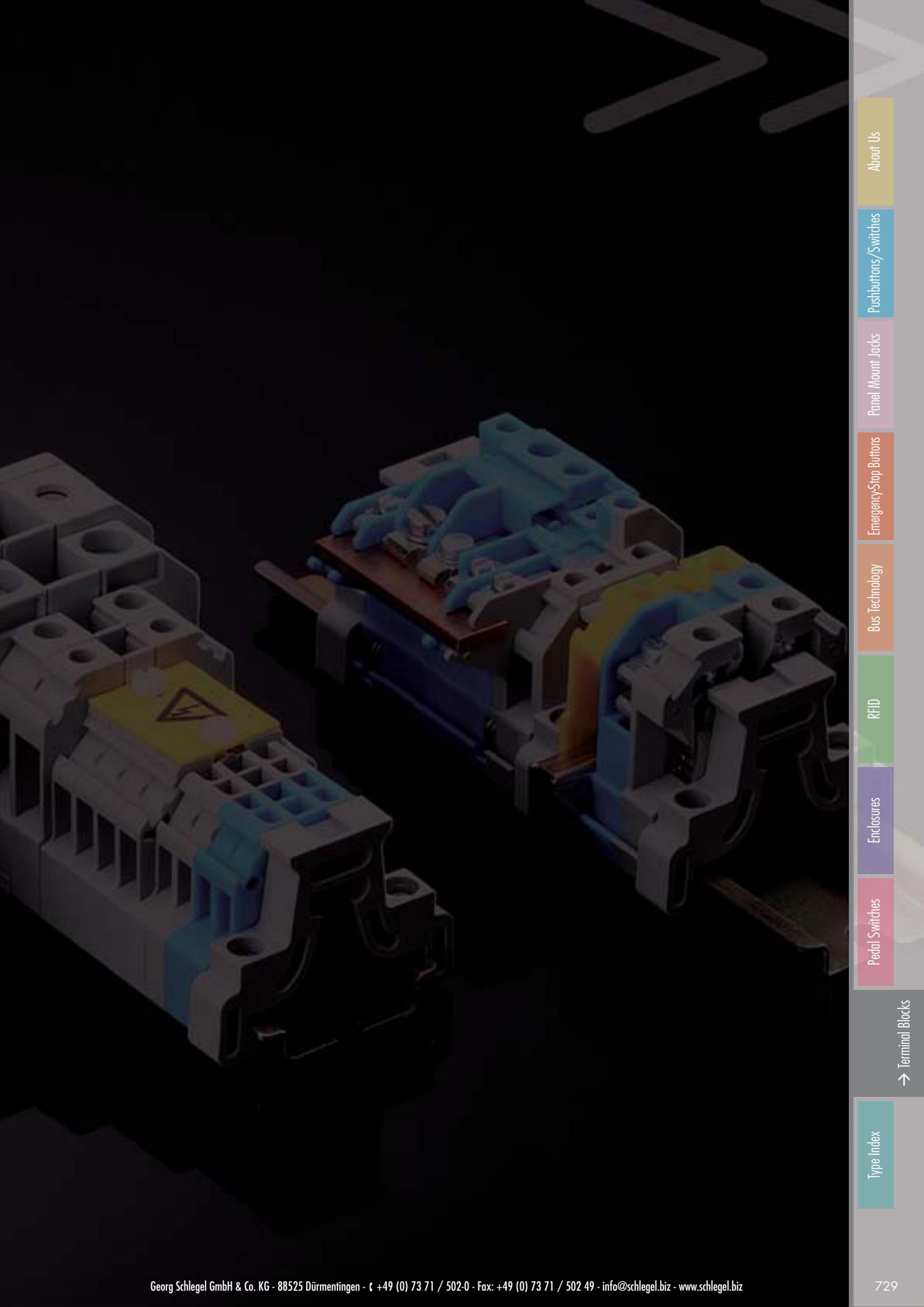
S10X3



Connecting Clamp

to connect the supply line to the neutral busbar
suitable for





Type Index

→ Terminal Blocks

RFID

Enclosures

Pedal Switches

Bus Technology

Emergency Stop Buttons

Pushbuttons/Switches

About Us