

Three-pole Earthing and Short-Circuiting Kit TI

Safety Equipment

Kit for low-voltage installations, partly insulated type TI

Equipment for Voltages up to 1000 V



Attaching a partly insulated earthing and short-circuiting device using an earthing handle of type TI

General Information:

Standard EN/IEC 61230 (DIN VDE 0683 Part 100)

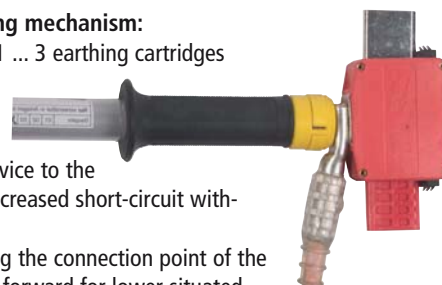
Temperature range - 25 °C ... + 55 °C

- Fully equipped kit for cable distribution cabinets
- Safe operation with insulated earthing handle of type TI (with dual function), suitable both for installing and removing earthing cartridges with M10 connection as well as for attaching earthing and short-circuiting devices (EaS devices)
- Waterproof, plastic-sheathed cable entry and node unit, additionally protected against twisting
- Other cable lengths can be selected online via the earthing and short-circuiting configurator

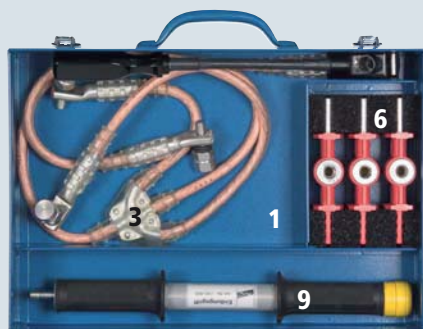
Additional locking mechanism:

The claws of size 1 ... 3 earthing cartridges spread out when attaching the earthing and short-circuiting device to the NH fuse holder (increased short-circuit withstand capability).

Adapter for moving the connection point of the earthing cartridge forward for lower situated NH fuse holders is available on request.



Kit I in Sheet Metal Case



Type EKS TI KVS SBK

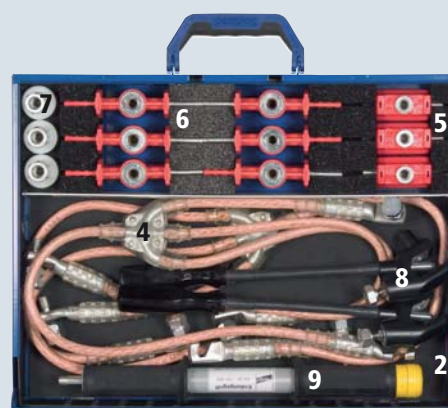
Part No. 766 302

Variant No. of the earthing and short-circuiting device VSUN6NV

Dimensions 380 x 260 x 80 mm

Note: When ordering please specify the Variant No.

Kit II in Sheet Metal Case



Type EKS TI 2F KVS SBK

Part No. 745 500

Variant No. of the earthing and short-circuiting device VUKMT58

Dimensions 440 x 330 x 66 mm

Note: When ordering please specify the Variant No.

Safety Equipment

Equipment for Voltages up to 1000 V

Sheet Metal Case, empty

Type	SBKL EKS TI KVS
Part No.	766 300
Colour	Blue
Dimensions	380 x 260 x 80 mm



Earthing and Short-Circuiting Device TI, Earth Clamp with flexible adjustable Handle

Adjustable handle with two positions, clamping range up to 20 mm, for cable distribution cabinets

Type	EKV3 25TI DG	EKV3 35TI DG
Part No.	745 345	745 346
Variant No.	VSUN6NV	VSHDQZB
Cable cross-section	25/25 mm ²	35/35 mm ²
Max. short-circuit current I _k 0.5 s	7.0 kA	10.0 kA
Max. short-circuit current I _k 1 s	4.9 kA	6.9 kA

Note: When ordering please specify the Variant No.

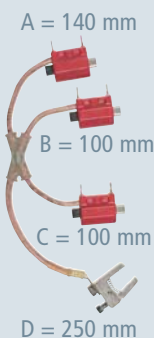


Earthing and Short-Circuiting Device TI, spring-loaded Earth Clamp

Clamping range up to 24 mm and fixation via adjustable handle (Part No. 745 921), fixed earthing cartridges of size 00 on the phase cable end, for service entrance boxes

Type	EKV3 NH00 TI
Part No.	745 365
Variant No.	V1RC3P2
Cable cross-section	16/16 mm ²
Max. short-circuit current I _k 0.5 s	4.5 kA
Max. short-circuit current I _k 1 s	3.2 kA

Note: When ordering please specify the Variant No.



NH 00 Earthing Cartridges

With M10 connection for insertion into NH fuse holders and blocks of size NH 00

For use with TI earthing handle

Type	EP NH00 TI M10
Part No.	745 302
Size	00
Max. cable cross-section	35 mm ²
Max. short-circuit current I _k 0.5 s	10.0 kA
Max. short-circuit current I _k 1 s	6.9 kA



NH 4a Earthing Cartridges

With M10 connection for insertion into NH fuse holders and blocks of size NH 4a

For use with TI earthing handle (Part No. 745 400/S03)

Type	EP NH4A TI M10
Part No.	745 016
Size	4a
Max. cable cross-section	35 mm ²
Max. short-circuit current I _k 0.5 s	10.0 kA
Max. short-circuit current I _k 1 s	6.9 kA



Three-pole Earthing and Short-Circuiting Kit TI

Kit Parts

Sheet Metal Case, empty

With foam padding

Type	SBKL EKS TI KVS 2F
Part No.	766 298
Colour	Blue
Dimensions	440 x 330 x 66 mm

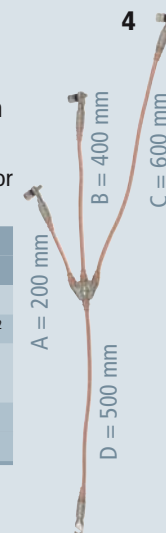


Earthing and Short-Circuiting Device TI with hook-shaped Cable Lug on the Earth Cable End

For installation of earth clamps Part No. 745 602 or 745 502, for cable distribution cabinets

Typ EKV3 ...	16TI HK	25TI HK	35TI HK
Part No.	745 358	745 359	745 360
Variant No.	V3RQASE	VUKMT58	VDZ2VDX
Cable cross-section	16/16 mm ²	25/25 mm ²	35/35 mm ²
Max. short-circuit current I _k 0.5 s	4.5 kA	7.0 kA	10.0 kA
Max. short-circuit current I _k 1 s	3.2 kA	4.9 kA	6.9 kA

Note: When ordering please specify the Variant No.

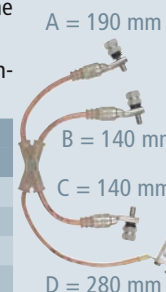


Earthing and Short-Circuiting Device TI, spring-loaded Earth Clamp

Clamping range up to 24 mm and fixation via adjustable handle (Part No. 745 921), screw-on cable lugs with M10 hexagon pin on the phase cable end, to be screwed onto earthing cartridges with M10 connection of service entrance boxes

Type	EKV3 16TI EK
Part No.	745 363
Variant No.	VS29AH
Cable cross-section	16/16 mm ²
Max. short-circuit current I _k 0.5 s	4.5 kA
Max. short-circuit current I _k 1 s	3.2 kA

Note: When ordering please specify the Variant No.



NH 1 ... 3 Earthing Cartridges

With M10 connection for insertion into NH fuse holders and blocks of size NH 1 ... 3

For use with TI earthing handle

Type	EP NH1 3 TI M10
Part No.	745 018
Size	1 ... 3
Max. cable cross-section	35 mm ²
Max. short-circuit current I _k 0.5 s	10.0 kA
Max. short-circuit current I _k 1 s	6.9 kA



NH 1 ... 3 Earthing Cartridges with Grip Lugs

With M10 connection for use with TI earthing handle or NH fuse handle with sleeve (Part No. 785 645)

Type	EP NH1 3 TI GL M10
Part No.	745 017
Size	1 ... 3
Max. cable cross-section	35 mm ²
Max. short-circuit current I _k 0.5 s	10.0 kA
Max. short-circuit current I _k 1 s	6.9 kA



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Kit Parts

Equipment for Voltages up to 1000 V

Screw-in Earthing Insert with M10 Connection, insulated

Insulated thread

To be screwed into E27 and E33 threaded fuse holders using a TI earthing handle

Type	ESE E27 TI M10	ESE E33 TI M10
Part No.	745 201	745 202
Size	E27	E33
Contact pin	Brass/gal CuSn	Brass/gal CuSn
Thread	Plastic	Plastic
Max. cable cross-section	25 mm ²	25 mm ²
Max. short-circuit current I_k 0.5 s	7.0 kA	7.0 kA
Max. short-circuit current I_k 1 s	4.9 kA	4.9 kA



Screw-in Earthing Insert with M10 Connection

Conductive thread

To be screwed into E27 and E33 threaded fuse holders using TI earthing handle

Type	ESE E27 KBI M10	ESE E33 KBI M10
Part No.	745 203	745 204
Size	E27	E33
Contact pin	Plastic	Plastic
Thread	Brass/gal CuSn	Brass/gal CuSn
Max. cable cross-section	25 mm ²	25 mm ²
Max. short-circuit current I_k 0.5 s	7.0 kA	7.0 kA
Max. short-circuit current I_k 1 s	4.9 kA	4.9 kA



Earth Clamp with flexible adjustable Handle and two Setting Positions

To be connected to the earth cable end of earthing and short-circuiting devices for cable distribution cabinets, with M8 terminal stud, protection against twisting and nut

Type	EK I FL20 DGF
Part No.	745 602
Clamping range	Up to 20 mm



Bare Earth Clamp with Wing Bolt

To be connected to the earth cable end of earthing and short-circuiting devices for cable distribution cabinets, with M8 bolt, protection against twisting and nut

Type	EK FL20 FS
Part No.	745 502
Clamping range	Up to 20 mm



TI Earthing Handle

With dual function

- For installing earthing cartridges or screw-in earthing inserts with M10 terminal
- For connecting TI earthing and short-circuiting devices to earthing cartridges (socket wrench insert size 19)

Type	EG TI EKV
Part No.	745 400
Length	355 mm



Adjustable Handle with flexible Shaft

With magnetic socket wrench insert

For connecting spring-loaded earth clamps

Type	DGF EKV VI
Part No.	745 921
Length	290 mm



Plastic Case, empty

With foam padding and hook-and-loop fastener

Type	KK 56 41 17 EK VI TI
Part No.	745 952
Dimensions	565 x 410 x 170 mm



Safety Equipment

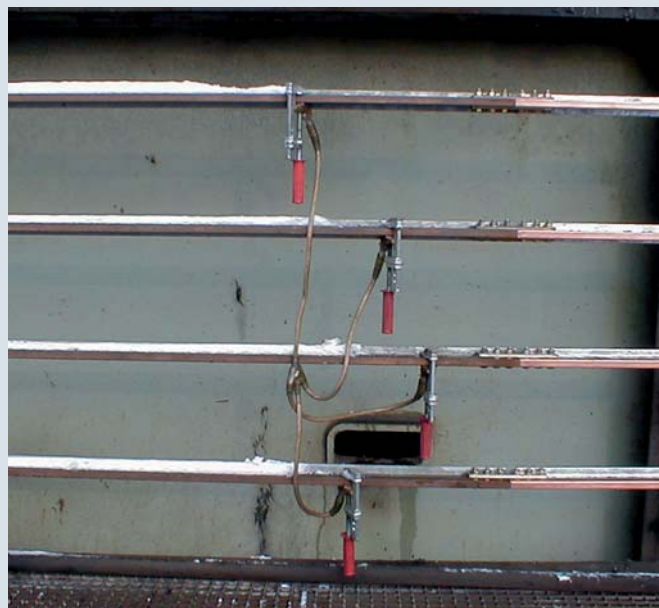
Three-pole Earthing and Short-Circuiting Devices

Equipment for Voltages up to 1000 V

- For insulated or uninsulated conductor bars of cranes and lifting equipment
- Allows to lock the clamping range of the clamps in several positions
- Waterproof, plastic-sheathed cable entries and node unit, with additional protection against twisting
- Other cable lengths can be selected online via the earthing and short-circuiting configurator



With clamps for crane conductor bars

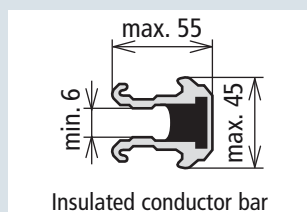
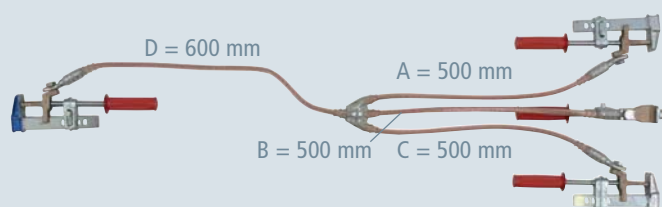


Three-pole earthing and short-circuiting device with clamps

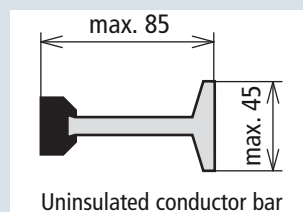
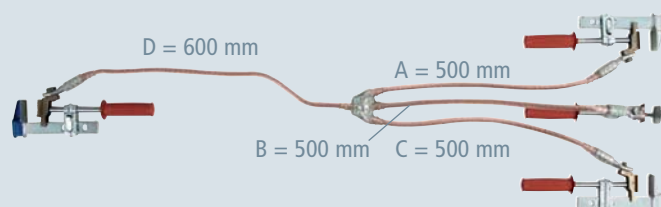
General Information:

Standard	EN/IEC 61230 (DIN VDE 0683 Part 100)
Temperature range	- 25 °C ... + 55 °C
Material (clamp body)	MCl/gal Zn
Material (pressure plates)	Copper alloy
Material (short-circuiting cables)	Highly flexible copper

With Clamps for insulated Conductor Bars



With Clamps for uninsulated Conductor Bars



Type	EKV3 25IS ZK	EKV3 35IS ZK	EKV3 50IS ZK
Part No.	745 370	745 371	745 372
Variant number	VH8QTCZ	VKB2Q6J	VP6YV4T
Clamping range	55 mm	55 mm	55 mm
Cable cross-section	25/25 mm ²	35/35 mm ²	50/50 mm ²
Max. short-circuit current I _k 0.5 s	7.0 kA	10.0 kA	14.0 kA
Max. short-circuit current I _k 1 s	4.9 kA	6.9 kA	9.9 kA

Note: When ordering please specify the Variant No.

Type	EKV3 25BS ZK	EKV3 35BS ZK
Part No.	745 375	745 376
Variant number	VQTK4T	VN63A91
Clamping range	85 mm	85 mm
Cable cross-section	25/25 mm ²	35/35 mm ²
Max. short-circuit current I _k 0.5 s	7.0 kA	10.0 kA
Max. short-circuit current I _k 1 s	4.9 kA	6.9 kA

Note: When ordering please specify the Variant No.

The clamp for the PEN conductor is marked in blue.