

# High-current terminal block - PTPOWER 185 - 1054722

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High-current terminal block, nom. voltage: 1000 V AC / 1500 V DC, nominal current: 309 A, connection method: Power-Turn connection, number of connections: 2, number of positions: 1, cross section: 95 mm<sup>2</sup> - 185 mm<sup>2</sup>, AWG: 310 - 3/0, width: 31 mm, color: gray, mounting type: NS 35/15

## Your advantages

- ✔ Quick and easy connection is now also possible for large conductors with the high-current terminal block
- ✔ The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✔ In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- ✔ The compact design enables wiring in a confined space



## Key Commercial Data

Packing unit	3 pc
Minimum order quantity	3 pc
GTIN	
GTIN	4055626689661

## Technical data

### General

Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	150 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3

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## Technical data

### General

Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	11.21 W
Maximum load current	309 A (with 185 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	309 A
Nominal voltage U <sub>N</sub>	1000 V AC
	1500 V DC
Open side panel	No
Ambient temperature (operation)	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Result of surge voltage test	Test passed
Result of power-frequency withstand voltage test	Test passed
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test conductor cross section/weight	95 mm <sup>2</sup> /14 kg
	150 mm <sup>2</sup> / 15 kg
	185 mm <sup>2</sup> /16.8 kg
Tensile test result	Test passed
Conductor cross section tensile test	95 mm <sup>2</sup>
Tractive force setpoint	351 N
Conductor cross section tensile test	150 mm <sup>2</sup>
Tractive force setpoint	427 N
Conductor cross section tensile test	185 mm <sup>2</sup>
Tractive force setpoint	503 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/15
Setpoint	15 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short circuit stability result	Test passed
Conductor cross section short circuit testing	150 mm <sup>2</sup>
Short-time current	18 kA
Result of thermal test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192

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## Technical data

### General

Proof of thermal characteristics (needle flame) effective duration	10 s
Result of aging test	Test passed
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2018-05
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2018-05
Shock form	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

### Dimensions

Width	31 mm
Length	116.4 mm
Height NS 35/15	116.5 mm

### Connection data

Connection	1 level
Connection method	Power-Turn connection
Stripping length	40 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	95 mm <sup>2</sup>
Conductor cross section solid max.	185 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section AWG min.	310
Conductor cross section AWG max.	3/0
Conductor cross section flexible min.	95 mm <sup>2</sup>
Conductor cross section flexible max.	185 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	3/0
Max. AWG conductor cross section, flexible	350 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm <sup>2</sup>
Cross section with insertion bridge solid min.	95 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	150 mm <sup>2</sup>
Cross section with insertion bridge stranded min.	95 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	150 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	120 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	120 mm <sup>2</sup>
Connection cross sections directly pluggable	95 mm <sup>2</sup> 185 mm <sup>2</sup>
Conductor cross section solid min.	95 mm <sup>2</sup>
Conductor cross section solid max.	185 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm <sup>2</sup>
Internal cylindrical gage	B14

### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Environmental Product Compliance


China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

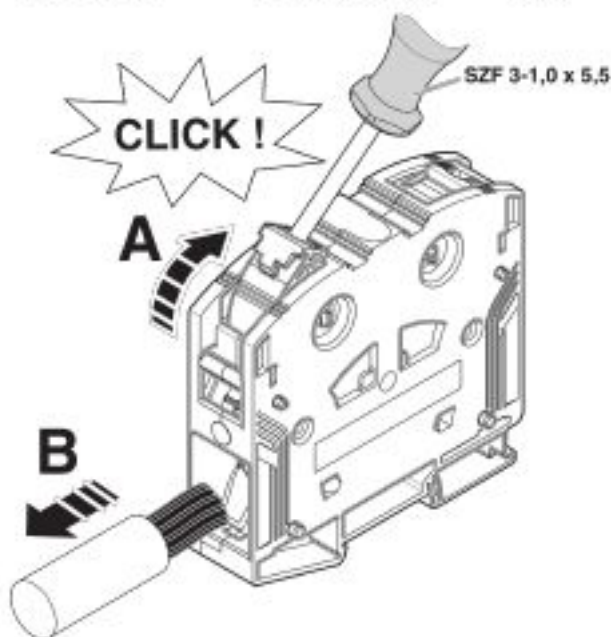
# High-current terminal block - PTPOWER 185 - 1054722

Schematic diagram

**PTPOWER**



AGK 10-PTPOWER	0,5 mm <sup>2</sup> ... 16 mm <sup>2</sup>	18 mm
PTPOWER 35	2,5 mm <sup>2</sup> ... 35 mm <sup>2</sup>	25 mm
PTPOWER 50	0,5 mm <sup>2</sup> ... 50 mm <sup>2</sup>	32 mm
PTPOWER 95	0,5 mm <sup>2</sup> ... 95 mm <sup>2</sup>	40 mm
PTPOWER 185	0,5 mm <sup>2</sup> ... 185 mm <sup>2</sup>	40 mm



Circuit diagram



## Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120

# High-current terminal block - PTPOWER 185 - 1054722

## Classifications

### eCl@ss

eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

### ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals


### Approvals

#### Approvals

KEMA-KEUR / IEC60384-1 / EAC / UL Recognized / EAC / DNV GL

#### Ex Approvals

### Approval details

KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	71-106056
Nominal current I <sub>N</sub>	309 A		
mm <sup>2</sup> /AWG/kcmil	95-185		

# High-current terminal block - PTPOWER 185 - 1054722

## Approvals

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-54954
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EAC			RU C- DE.AI30.B.01102
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UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
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EAC			RU C- DE.BL08.B.00644
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DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE0000029
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## Accessories

### Accessories

#### Cable end sleeve

Ferrule - A 95 -40 - 3241242



Ferrule, length: 40 mm, color: silver

Ferrule - A 120 -40 - 1090640



Ferrule, length: 40 mm, color: silver

#### Crimping tool

## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

Crimping pliers - CRIMPFOX 50R - 1212041



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 35 mm<sup>2</sup> ... 50 mm<sup>2</sup>, lateral entry, WM crimp

Crimping pliers - CRIMPFOX-M - 1212072



Basic pliers, for accommodating dies for a wide range of type of contacts

Crimping pliers - CRIMPFOX-C120 - 1212318



Basic pliers, for accommodating dies for a wide range of type of contacts up to 120 mm<sup>2</sup>

DIN rail

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver



## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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# High-current terminal block - PTPOWER 185 - 1054722

## Accessories

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

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End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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## Documentation

Mounting material - PTPOWER-IL - 1180891



Operating decal for the PTPOWER

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## End block

End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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## Insertion bridge

Insertion bridge - EB 2-31/PT - 3215057



Insertion bridge, pitch: 31 mm, length: 78.4 mm, width: 54.7 mm, number of positions: 2, color: red

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## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

Insertion bridge - EB 3-31/PT - 3215058



Insertion bridge, pitch: 31 mm, length: 78.4 mm, width: 85.7 mm, number of positions: 3, color: red

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### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



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Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



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Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



### Labeled terminal marker

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

#### Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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#### Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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#### Marker for terminal blocks - ZB10,LGS:U-N - 1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

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#### Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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#### Marker for terminal blocks - UCT-TM 10 CUS - 0829623



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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#### Pick-off terminal block

## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

#### Pick-off terminal block - AGK 10-PTPOWER - 3260145



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: gray, mounting type: on base element

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#### Pick-off terminal block - AGK 10-PTPOWER BU - 3260148



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: blue, mounting type: on base element

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#### Pick-off terminal block - AGK 10-PTPOWER GN/YE - 3260151



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: green/yellow, mounting type: on base element

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#### Pick-off terminal block - AGK 10-PTPOWER BK/YE - 3260154



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: black/yellow, mounting type: on base element

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### Planning and marking software

#### Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

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### Screwdriver tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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### Terminal marking

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

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Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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### Test plug terminal block

## High-current terminal block - PTPOWER 185 - 1054722

### Accessories

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

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Warning label printed

Cover - CEC PTPOWER 95/185 - 1056087



Cover, yellow, labeled: Lightning flash, mounting type: plug in

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