

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 mm² - 185 mm², AWG: 3/0 - 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

RoHS

COMPLETE

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	3 pc
GTIN	 4 055626 689661
GTIN	4055626689661
Weight per Piece (excluding packing)	353.330 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1

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Technical data

General

Nominal cross section	150 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	11.21 W
Maximum load current	309 A (with 185 mm ² conductor cross section)
Nominal current I _N	309 A
Nominal voltage U _N	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 ² /14 kg
	150 mm ² / 15 kg
	185 mm ² /16.8 kg
Tensile test result	Test passed
Conductor cross section tensile test	95 mm ²
Tractive force setpoint	351 N
Conductor cross section tensile test	150 mm ²
Tractive force setpoint	427 N
Conductor cross section tensile test	185 mm ²
Tractive force setpoint	503 N
Result of tight fit on support	Test passed

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General

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 ²
Short-time current	18 kA
Result of thermal test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
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	$f_1 = 5$ Hz to $f_2 = 250$ Hz
ASD level	0.964 (m/s ²) ² /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

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Technical data

General

Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
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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 ²
Conductor cross section solid max.	185 mm ²
Conductor cross section AWG min.	3/0
Conductor cross section AWG max.	3/0
Conductor cross section flexible min.	95 mm ²
Conductor cross section flexible max.	185 mm ²
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 ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm ²
Cross section with insertion bridge solid min.	95 mm ²
Cross section with insertion bridge, solid max.	150 mm ²
Cross section with insertion bridge stranded min.	95 mm ²
Cross section with insertion bridge, stranded max.	150 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	120 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm ²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	120 mm ²
Connection cross sections directly pluggable	95 mm ² 185 mm ²
Conductor cross section solid min.	95 mm ²
Conductor cross section solid max.	185 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	95 mm ²

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Technical data

Connection data

Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm ²
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

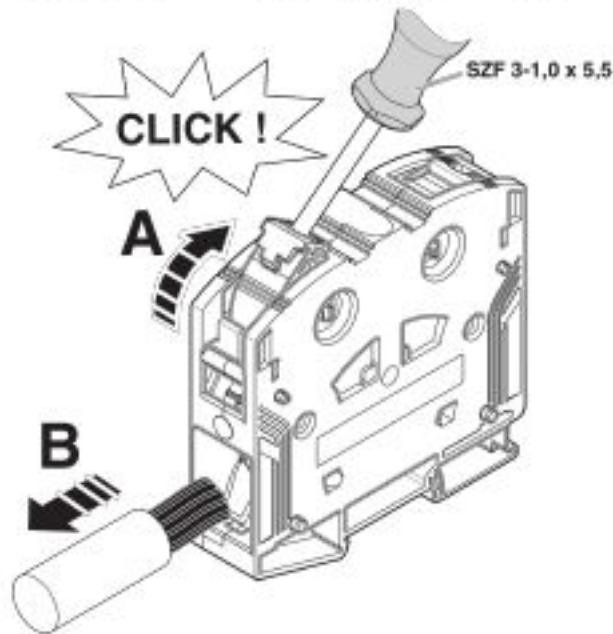
High-current terminal block - PTPOWER 185 - 1054722

Schematic diagram

PTPOWER



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



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1

27141120

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Classifications

eCl@ss

eCl@ss 5.1	27141120
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
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 / IECCE CB Scheme / EAC / UL Recognized / EAC / DNV GL

Ex Approvals

Approval details

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Approvals

KEMA-KEUR		http://www.dekra-certification.com	71-106056
Nominal current I _N		309 A	
mm ² /AWG/kcmil		95-185	

IECEE CB Scheme		http://www.iecee.org/	NL-54954
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EAC			RU C- DE.AI30.B.01102
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
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EAC			RU C- DE.BL08.B.00644
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DNV GL		https://approvalfinder.dnvgl.com/	TAE00000Z9
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Accessories

Accessories

Cable end sleeve

Ferrule - A 95 -40 - 3241242



Ferrule, length: 40 mm, color: silver

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Accessories

Ferrule - A 120 -40 - 1090640



Ferrule, length: 40 mm, color: silver

Crimping tool

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 mm² ... 50 mm², 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 mm²

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

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Accessories

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

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

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

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

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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Accessories

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

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

End cap - NS 35/15 CAP - 1206573



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

Documentation

Mounting material - PTPOWER-IL - 1180891



Operating decal for the PTPOWER

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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Accessories

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



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



Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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

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Accessories

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

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

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

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

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

High-current terminal block - PTPOWER 185 - 1054722

Accessories

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

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

Zack marker strip - ZB 20,3 CUS - 0824948



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

Pick-off terminal block

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 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: gray, mounting type: on base element

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 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: blue, mounting type: on base element

High-current terminal block - PTPOWER 185 - 1054722

Accessories

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 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: green/yellow, mounting type: on base element

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 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: black/yellow, mounting type: on base element

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



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

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.

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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Accessories

Terminal marking

Marker for terminal blocks - TMT (EX9,5)R - 0828295



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snap into universal marker groove, snap into tall marker groove, for terminal block width: 50000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

Marker for terminal blocks - US-TM 100 - 0829255



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into universal marker groove, lettering field size: 104 x 9.8 mm, Number of individual labels: 13

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

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

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

High-current terminal block - PTPOWER 185 - 1054722

Accessories

Zack marker strip - ZB 20,3:UNPRINTED - 0820248



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: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Warning label printed

Cover - CEC PTPOWER 95/185 - 1056087



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