

2980319

https://www.phoenixcontact.com/us/products/2980319

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6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

Your advantages

- · Resistant to interference currents
- · High relay release voltage



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Commercial Data

Item number	2980319
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	C05
Product Key	CK6211
Catalog Page	Page 388 (C-5-2019)
GTIN	4017918895709
Weight per Piece (including packing)	36.6 g
Weight per Piece (excluding packing)	30.2 g
Customs tariff number	85366990
Country of origin	DE



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Technical Data

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the download area
duct properties	
Product type	Relay socket
Application	Filter to prevent interference
Operating mode	100% operating factor
Compatible components	Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1
sulation characteristics	
Pollution degree	3
ectrical properties	
Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter
ut data	
	120 V AC
Nominal input voltage U _N	110 V DC
	110 V DO
Relay assembly	
Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range in reference to U_N	0.8 1.4
Typical input current at U _N	7 mA (50 Hz)
	8 mA (60 Hz)
Typical response time	7 ms
Typical release time	20 ms
Typical release voltage	50 V AC
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter
Optocoupler assembly	
Nominal input voltage U _N	120 V AC
	110 V DC
Input voltage range in reference to U _N	0.85 1.1
Typical input current at U _N	7 mA (50 Hz)
	8 mA (60 Hz)



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Switching threshold "0" signal in reference to U_N	≤ 0.4
Typical response time	6 ms
Typical release time	10 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter

Output data

Compatible components	Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Maximum switching voltage	30 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Voltage drop at max. limiting continuous current	< 200 mV
Maximum inrush current	15 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Voltage drop at max. limiting continuous current	< 1 V
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
Leakage current	< 1 mA
Phase angle cos phi min	0.5
Max. load value	$4.5 \text{ A}^2 \text{s}$

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² 2.5 mm²
	0.14 mm² 2.5 mm²



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Conductor cross section flexible	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm² 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 14
Torque	0.6 Nm 0.8 Nm
LED signaling	
Status display	LED
Dimensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
Material specifications	
Flammability rating according to UL 94	V0 (Housing)
Environmental and real-life conditions Ambient conditions	
Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Approval data	
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Mounting	
Mounting type	DIN rail mounting

in rows with zero spacing

any

Assembly instructions

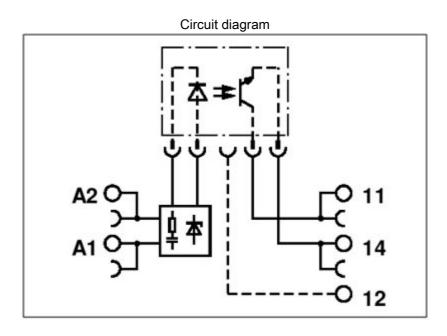
Mounting position



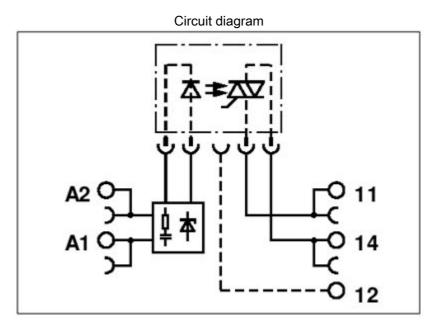
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Drawings



DC output

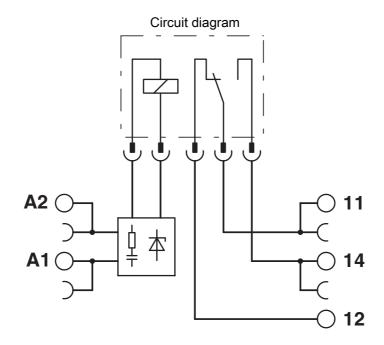


AC output

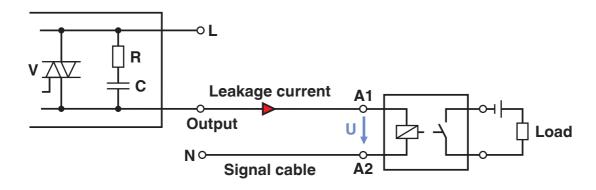


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Application drawing



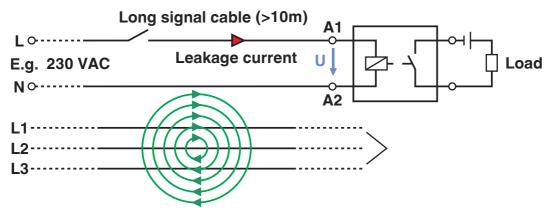
Occurrence of interference signals Scenario 1: controller - AC output card



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Application drawing



Parallel signal cables or load cables

Occurrence of interference signals Scenario 2: long signal cables



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Approvals



cUL Recognized

Approval ID: FILE E 238705



UL Recognized

Approval ID: FILE E 238705



EAC

Approval ID: RU D-DE.B*00573/18



DNV GL

Approval ID: TAE0000196

Nominal Voltage U_N Nominal Current I_N Cross Section AWG Cross Section mm²



PRS

Approval ID: TE/2109/880590/16

cULus Recognized



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Classifications

ECLASS

ECLASS-9.0	27371603
ECLASS-10.0.1	27371603
ECLASS-11.0	27371603
ETIM	
ETIM 8.0	EC001456
UNSPSC	

UNSPSC 21.0	39122300



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years



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Mandatory Accessories

Single relay

Single relay - REL-MR- 60DC/21AU - 2961134

https://www.phoenixcontact.com/us/products/2961134



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 60 V DC

Single relay

Single relay - REL-MR- 60DC/21 - 2961118

https://www.phoenixcontact.com/us/products/2961118



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage $60\ V\ DC$



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Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621 https://www.phoenixcontact.com/us/products/2966621



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/ 24DC/ 2 - 2966605 https://www.phoenixcontact.com/us/products/2966605



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: $60\ V\ DC$, output: $3\dots33\ V\ DC/3\ A$



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Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/230AC/ 1 - 2967963 https://www.phoenixcontact.com/us/products/2967963



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 24 - 253 V AC/0.75 A

Accessories



Note: Applying some accessories below might limit this product.

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786 https://www.phoenixcontact.com/us/products/2966786



Continuous plug-in bridge, color: red

1 Max. current carrying capacity: 32 A



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Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC BU - 2966692 https://www.phoenixcontact.com/us/products/2966692



Continuous plug-in bridge, color: blue

Max. current carrying capacity: 32 A

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC GY - 2966838 https://www.phoenixcontact.com/us/products/2966838



Continuous plug-in bridge, color: gray

1 Max. current carrying capacity: 32 A



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Single plug-in bridge

Single plug-in bridge - FBST 6-PLC RD - 2966236 https://www.phoenixcontact.com/us/products/2966236

Single plug-in bridge, color: red



1 Max. current carrying capacity: 6 A

Single plug-in bridge

Single plug-in bridge - FBST 6-PLC BU - 2966812 https://www.phoenixcontact.com/us/products/2966812

Single plug-in bridge, color: blue



Max. current carrying capacity: 6 A



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Single plug-in bridge

Single plug-in bridge - FBST 6-PLC GY - 2966825 https://www.phoenixcontact.com/us/products/2966825

Single plug-in bridge, color: gray



Max. current carrying capacity: 6 A

Single plug-in bridge

Single plug-in bridge - FBST 8-PLC GY - 2967688 https://www.phoenixcontact.com/us/products/2967688

Single plug-in bridge, color: gray



1 Max. current carrying capacity: 6 A



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Separating plate

Separating plate - PLC-ATP BK - 2966841

https://www.phoenixcontact.com/us/products/2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

Zack marker strip

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003 https://www.phoenixcontact.com/us/products/1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10



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Power terminal block

Power terminal block - PLC-ESK GY - 2966508 https://www.phoenixcontact.com/us/products/2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

Zack marker strip

Zack marker strip - ZB 6 CUS - 0824992 https://www.phoenixcontact.com/us/products/0824992



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10



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Screwdriver

Screwdriver - SZF 1-0,6X3,5 - 1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

Zack marker strip

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016 https://www.phoenixcontact.com/us/products/1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10



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System connection

System connection - PLC-V8/FLK14/IN - 2296553 https://www.phoenixcontact.com/us/products/2296553



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: Screw connection 1x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

Zack marker strip

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029 https://www.phoenixcontact.com/us/products/1051029



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 491 \dots 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10



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https://www.phoenixcontact.com/us/products/2980319

System connection

System connection - PLC-V8/FLK14/IN/M - 2304115 https://www.phoenixcontact.com/us/products/2304115



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: Screw connection 1x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: minusschaltend

Zack marker strip

Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032 https://www.phoenixcontact.com/us/products/1051032



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10



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System connection

System connection - PLC-V8/D15S/IN - 2296074 https://www.phoenixcontact.com/us/products/2296074



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: Screw connection 1x, connection 2: D-SUB pin strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414 https://www.phoenixcontact.com/us/products/1051414



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: snapped, for terminal block width: 6.2 mm, lettering field size: $6.15 \times 10.5 \text{ mm}$, Number of individual labels: 10



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https://www.phoenixcontact.com/us/products/2980319

System connection

System connection - PLC-V8/D15B/IN - 2296087 https://www.phoenixcontact.com/us/products/2296087



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: Screw connection 1x, connection 2: D-SUB socket strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430 https://www.phoenixcontact.com/us/products/1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15×10.5 mm, Number of individual labels: 10



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Fuse adapter

Fuse adapter - PLC-FA-5X20 - 1186510

https://www.phoenixcontact.com/us/products/1186510



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5×20 mm fuses. Operating voltage: Universal. Without fuse failure indication.

Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 - 0818085 https://www.phoenixcontact.com/us/products/0818085



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6×10.5 mm, Number of individual labels: 80



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Fuse adapter

Fuse adapter - PLC-FA-I-5X20-12-24UC - 1186499 https://www.phoenixcontact.com/us/products/1186499



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5×20 mm fuses. Operating voltage: 12 ... 24 V AC/DC. With LED for fuse failure indication

Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 CUS - 0824589 https://www.phoenixcontact.com/us/products/0824589



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80



2980319

https://www.phoenixcontact.com/us/products/2980319

Fuse adapter

Fuse adapter - PLC-FA-I-5X20-120-230UC - 1186508 https://www.phoenixcontact.com/us/products/1186508



Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5×20 mm fuses. Operating voltage: 120 ... 230 V AC/DC. With LED for fuse failure indication.

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736 https://www.phoenixcontact.com/us/products/0828736



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: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60



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Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 CUS - 0829602 https://www.phoenixcontact.com/us/products/0829602



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

DIN rail perforated

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733 https://www.phoenixcontact.com/us/products/0801733



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681 https://www.phoenixcontact.com/us/products/0801681



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail perforated

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119 https://www.phoenixcontact.com/us/products/1204119



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - 1204122 $\label{eq:https://www.phoenixcontact.com/us/products/1204122}$



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704 https://www.phoenixcontact.com/us/products/0801704



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail perforated

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421 https://www.phoenixcontact.com/us/products/1206421



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434 https://www.phoenixcontact.com/us/products/1206434



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - 0801762 https://www.phoenixcontact.com/us/products/0801762



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

End cap

End cap - NS 35/7,5 CAP - 1206560

https://www.phoenixcontact.com/us/products/1206560

DIN rail end piece, for DIN rail NS 35/7.5





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DIN rail perforated

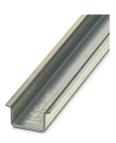
DIN rail perforated - NS 35/15 PERF 2000MM - 1201730 https://www.phoenixcontact.com/us/products/1201730



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714 https://www.phoenixcontact.com/us/products/1201714



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail perforated

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602 https://www.phoenixcontact.com/us/products/0806602



DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white, Pack of 25 (50 m) $^{\circ}$

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM-VPE 10 - 1204135 https://www.phoenixcontact.com/us/products/1204135



DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)



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DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756 https://www.phoenixcontact.com/us/products/1201756



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

DIN rail perforated

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599 https://www.phoenixcontact.com/us/products/1206599



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)



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DIN rail, unperforated

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586 https://www.phoenixcontact.com/us/products/1206586



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM-VPE 10 - 1201895 https://www.phoenixcontact.com/us/products/1201895



DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)



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End cap

End cap - NS 35/15 CAP - 1206573 https://www.phoenixcontact.com/us/products/1206573

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



DIN rail, unperforated

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM-VPE 10 - 1201798 https://www.phoenixcontact.com/us/products/1201798



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com