

2900345

https://www.phoenixcontact.com/gb/products/2900345

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PLC-INTERFACE for railway applications, consisting of basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, range: 0.75 x UN to 1.15 x UN, nominal input frequency 16.7 Hz, 2 changeover contacts, input voltage 230 V AC

### Your advantages

- Vibration and shock resistance in accordance with EN 50155
- · Safe isolation between coil and contact side
- · Nominal input frequency of 16.7 Hz
- · Screw, spring-cage or Push-in connection

#### Commercial data

Item number	2900345
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK623D
Product key	CK623D
Catalog page	Page 419 (C-5-2019)
GTIN	4046356507547
Weight per piece (including packing)	62.41 g
Weight per piece (excluding packing)	60.2 g
Customs tariff number	85364900
Country of origin	DE



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### Technical data

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Railway applications
Operating mode	100% operating factor
Mechanical service life	approx. 3x 10 <sup>7</sup> cycles

#### Insulation characteristics

	5
Insulation	Basic insulation

### Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Rated surge voltage

Maximum power dissipation for nominal condition	1.1 W	
Test voltage (Winding/contact)	6 kV (50 Hz, 1 min., winding/contact)	
Air clearances and creepage distances between the power circuits		
Air clearances and creepage distances between the power circuits		

6 kV

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	230 V AC
Input voltage range	172.5 V AC 264.5 V AC (20 °C)
Mains frequency	16.67 Hz
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	4.8 mA (with AC)
Typical response time	20 ms
Typical release time	60 ms
Coil voltage	110 V DC
Protective circuit	Bridge rectifier
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated



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Note	If the specified maximum values are exceeded, the gold plating is destroyed. The AgNi contact values are then valid for further operation; a reduction in length of service life is to be expected.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (24 V DC)
Switching capacity	2 A (24 V (DC13), in acc. with DIN VDE 0660/IEC 60947)
	0.2 A (220 V DC / 230 V AC (DC13), in acc. with DIN VDE 0660/IEC 60947)
	3 A (220 V DC / 230 V AC (AC15), in acc. with DIN EVDE 0660/IEC 60947)

#### Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.)
Minimum switching voltage	5 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 V, AC15)

### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² (Single ferrule)



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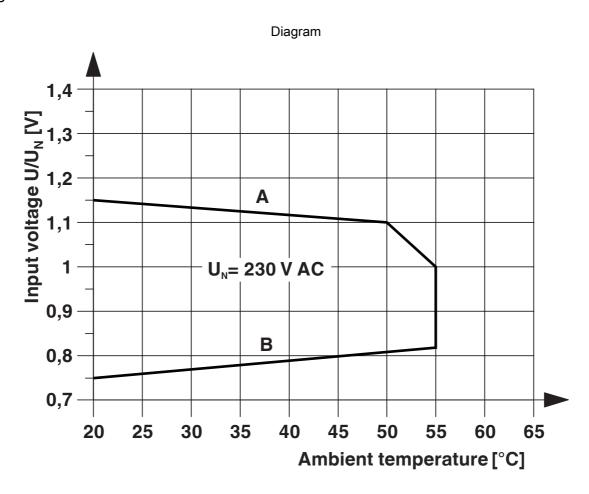
	2x 0.5 mm <sup>2</sup> 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 14
mensions	
Width	14 mm
Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions  Ambient conditions	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-25 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
CE Certificate	CE-compliant CE-compliant
Corrective and test	
Corrosive gas test  Identification	ISA S74 04 C2 Harsh Croup
identification	ISA-S71.04. G3 Harsh Group EN 60068-2-60
MC data	LN 00008-2-00
ivio data	
Low Voltage Directive	Conformance with Low Voltage Directive
Low Voltage Directive  Electromagnetic compatibility	Conformance with Low Voltage Directive  Conformance with EMC directive
Electromagnetic compatibility	
Electromagnetic compatibility	
Electromagnetic compatibility tandards and regulations	
Electromagnetic compatibility  tandards and regulations  Air clearances and creepage distances between the power circuits	Conformance with EMC directive
Electromagnetic compatibility  tandards and regulations  Air clearances and creepage distances between the power circuits  Standards/regulations	Conformance with EMC directive
Electromagnetic compatibility  tandards and regulations  Air clearances and creepage distances between the power circuits  Standards/regulations  founting	Conformance with EMC directive  IEC 60947-5-1



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### **Drawings**



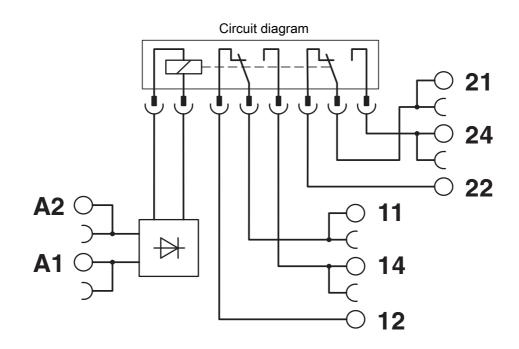
Curve A:
Maximum continuous operating voltage
at limiting continuous current = 6 A

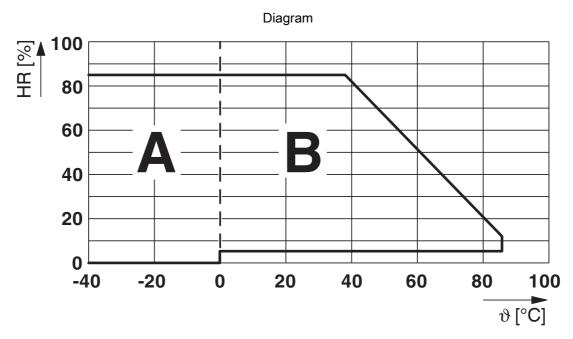
# Curve B: Minimum relay operating voltage at initial trigger with $U_N$ and limiting continuous current = 6 A



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Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.



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### **Approvals**

☼ To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2900345



cUL Recognized

Approval ID: FILE E 238705



**UL Recognized**Approval ID: FILE E 238705

EAC

Approval ID: TR\_TS\_D\_00573\_c

EHC

EAC

Approval ID: RU\*C-DE.\*08.B.00010



**UL Listed** 

Approval ID: FILE E 172140



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Approval ID: FILE E 172140



cULus Listed

Approval ID: E140324

cULus Recognized

**cULus Listed** 



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### Classifications

UNSPSC 21.0

### **ECLASS**

	ECLASS-11.0	27371601		
	ECLASS-12.0	27371601		
	ECLASS-13.0	27371601		
ET	ETIM			
	ETIM 9.0	EC001437		
UN	ISPSC			

39122300



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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### Accessories



Note: Applying some accessories below might limit this product.

### FBST 500-PLC RD - Continuous plug-in bridge

#### 2966786

https://www.phoenixcontact.com/gb/products/2966786



Continuous plug-in bridge, length: 500 mm, color: red

Max. current carrying capacity: 32 A

### FBST 500-PLC BU - Continuous plug-in bridge

#### 2966692

https://www.phoenixcontact.com/gb/products/2966692



Continuous plug-in bridge, length: 500 mm, color: blue

1 Max. current carrying capacity: 32 A



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### FBST 500-PLC GY - Continuous plug-in bridge

2966838

https://www.phoenixcontact.com/gb/products/2966838



Continuous plug-in bridge, length: 500 mm, color: gray

1 Max. current carrying capacity: 32 A

### FBST 6-PLC RD - Single plug-in bridge

2966236

https://www.phoenixcontact.com/gb/products/2966236

Single plug-in bridge, number of positions: 2, length: 6 mm, color: red



Max. current carrying capacity: 6 A



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### FBST 6-PLC BU - Single plug-in bridge

2966812

https://www.phoenixcontact.com/gb/products/2966812



Single plug-in bridge, number of positions: 2, length: 6 mm, color: blue

1 Max. current carrying capacity: 6 A

### FBST 6-PLC GY - Single plug-in bridge

2966825

https://www.phoenixcontact.com/gb/products/2966825

Single plug-in bridge, number of positions: 2, length: 6 mm, color: gray



Max. current carrying capacity: 6 A



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### FBST 8-PLC GY - Single plug-in bridge

2967688

https://www.phoenixcontact.com/gb/products/2967688

Single plug-in bridge, number of positions: 2, length: 8 mm, color: gray



Max. current carrying capacity: 6 A

### FBST 14-PLC BK - Single plug-in bridge

2967691

https://www.phoenixcontact.com/gb/products/2967691

Single plug-in bridge, number of positions: 2, length: 14 mm, color: black



Max. current carrying capacity: 10 A



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#### ZB 10:UNBEDRUCKT - Zack marker strip

1053001

https://www.phoenixcontact.com/gb/products/1053001



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

#### ZB 10 CUS - Zack marker strip

0824941

https://www.phoenixcontact.com/gb/products/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:  $10,15 \times 10,5 \text{ mm}$ , Number of individual labels: 10



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

1053014

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size:  $10.15 \times 10.5$  mm, Number of individual labels: 10

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

1053027

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size:  $10.15 \times 10.5$  mm, Number of individual labels: 10



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

1053412

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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

1053438

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size:  $10.15 \times 10.5$  mm, Number of individual labels: 10



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

0818069

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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

0824605

https://www.phoenixcontact.com/gb/products/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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#### UCT-TM 10 - Marker for terminal blocks

0829142

https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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

0829623

https://www.phoenixcontact.com/gb/products/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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#### ZB 12:UNPRINTED - Zack marker strip

0812120

https://www.phoenixcontact.com/gb/products/0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

#### ZB 12 CUS - Zack marker strip

0824942

https://www.phoenixcontact.com/gb/products/0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5



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#### ZB 12,LGS:L1-N,PE - Zack marker strip

0812146

https://www.phoenixcontact.com/gb/products/0812146



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

#### UC-TM 12 - Marker for terminal blocks

0819194

https://www.phoenixcontact.com/gb/products/0819194



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: 12 mm, lettering field size:  $11.45 \times 10.5$  mm, Number of individual labels: 40



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#### UC-TM 12 CUS - Marker for terminal blocks

0824613

https://www.phoenixcontact.com/gb/products/0824613



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: 12 mm, lettering field size:  $11.45 \times 10.5$  mm, Number of individual labels: 40

#### UCT-TM 12 - Marker for terminal blocks

0829144

https://www.phoenixcontact.com/gb/products/0829144



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30



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#### UCT-TM 12 CUS - Marker for terminal blocks

0829630

https://www.phoenixcontact.com/gb/products/0829630



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

#### NS 35/7,5 PERF 2000MM - DIN rail perforated

0801733

https://www.phoenixcontact.com/gb/products/0801733



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



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#### NS 35/7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

https://www.phoenixcontact.com/gb/products/0801681



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

#### NS 35/7,5 WH PERF 2000MM - DIN rail perforated

1204119

https://www.phoenixcontact.com/gb/products/1204119



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



2900345

https://www.phoenixcontact.com/gb/products/2900345

#### NS 35/7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

https://www.phoenixcontact.com/gb/products/1204122



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

#### NS 35/7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

https://www.phoenixcontact.com/gb/products/0801704



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



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#### NS 35/7,5 ZN PERF 2000MM - DIN rail perforated

1206421

https://www.phoenixcontact.com/gb/products/1206421



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

#### NS 35/7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

https://www.phoenixcontact.com/gb/products/1206434



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



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### NS 35/7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

https://www.phoenixcontact.com/gb/products/0801762



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

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

1206560

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

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





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

1201730

https://www.phoenixcontact.com/gb/products/1201730

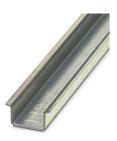


DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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

1201714

https://www.phoenixcontact.com/gb/products/1201714



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



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

0806602

https://www.phoenixcontact.com/gb/products/0806602



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

#### NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

https://www.phoenixcontact.com/gb/products/1204135



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



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

1201756

https://www.phoenixcontact.com/gb/products/1201756



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

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

1206599

https://www.phoenixcontact.com/gb/products/1206599



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



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

1206586

https://www.phoenixcontact.com/gb/products/1206586



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

### NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

https://www.phoenixcontact.com/gb/products/1201895



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



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### NS 35/15 CAP - End cap

1206573

https://www.phoenixcontact.com/gb/products/1206573

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



#### NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

https://www.phoenixcontact.com/gb/products/1201798



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



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### PLC-ATP BK - Separating plate

2966841

https://www.phoenixcontact.com/gb/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

#### PLC-ESK GY - Power terminal block

2966508

https://www.phoenixcontact.com/gb/products/2966508



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



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https://www.phoenixcontact.com/gb/products/2900345

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

1204517

https://www.phoenixcontact.com/gb/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

### REL-MR-110DC/21-21AU - Single relay

2961228

https://www.phoenixcontact.com/gb/products/2961228



Plug-in miniature power relay, with multi-layer gold contact, 2 changeover contacts, input voltage 110 V DC

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