RIF-2-RPT-LDP-24DC/4X21 - Relay module

2903308

https://www.phoenixcontact.com/nl/products/2903308

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Preassembled relay module with Push-in connection, consisting of: relay base, power contact relay, and retaining bracket. Contact switching type: 4 changeover contacts. Input voltage: 24 V DC

Product description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

Commercial data

Item number	2903308
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK652A
Product key	DK652A
GTIN	4046356732161
Weight per piece (including packing)	107,92 g
Weight per piece (excluding packing)	99,7 g
Customs tariff number	85364110
Country of origin	CN

Set consists of

RIF-2-BPT/4X21 - Relay base

2900934

https://www.phoenixcontact.com/nl/products/2900934



Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-RH-2 - Retaining bracket

2900954

https://www.phoenixcontact.com/nl/products/2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

Technical data

Product properties

Product type	Relay Module
Product family	RIFLINE complete
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10^7 cycles

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	20.01.2026

Electrical properties

Maximum power dissipation for nominal condition	1.01 W
Test voltage (Winding/contact)	2.5 kV_{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2 kV_{rms} (50 Hz, 1 min., contact/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	19.2 V DC ... 30 V DC (20 °C)
Input voltage range in reference to U_N	see diagram
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	42 mA
Typical response time	13 ms
Typical release time	14 ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi

Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 24 mA)
Limiting continuous current	6 A (see diagram)
Maximum inrush current	16 A (20 ms, N/O contacts)
Min. switching current	5 mA (24 V)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1 A (at 240 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross-section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Dimensions

Item dimensions

Width	31 mm
Height	96 mm
Depth	75 mm

Drill hole

Diameter	3.2 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94 (Housing)	V2 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT I (Relay)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

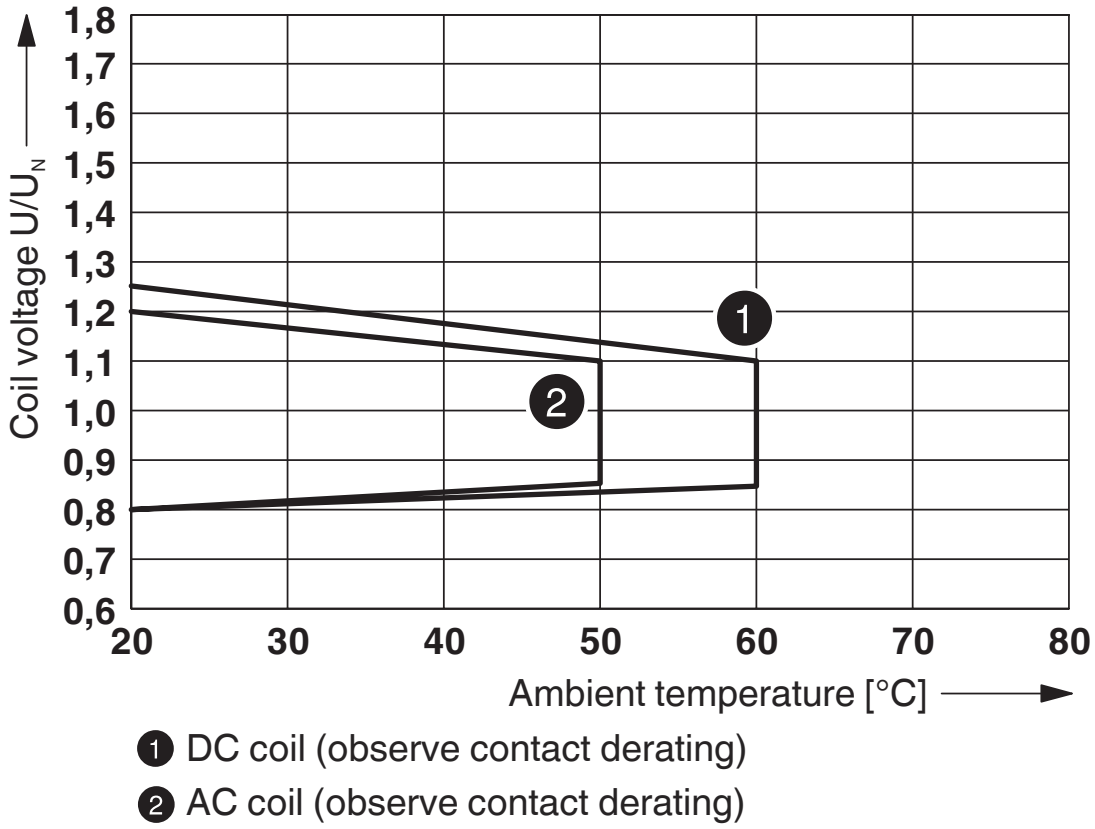
Standards/regulations	IEC 60947-5-1

Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Diagram

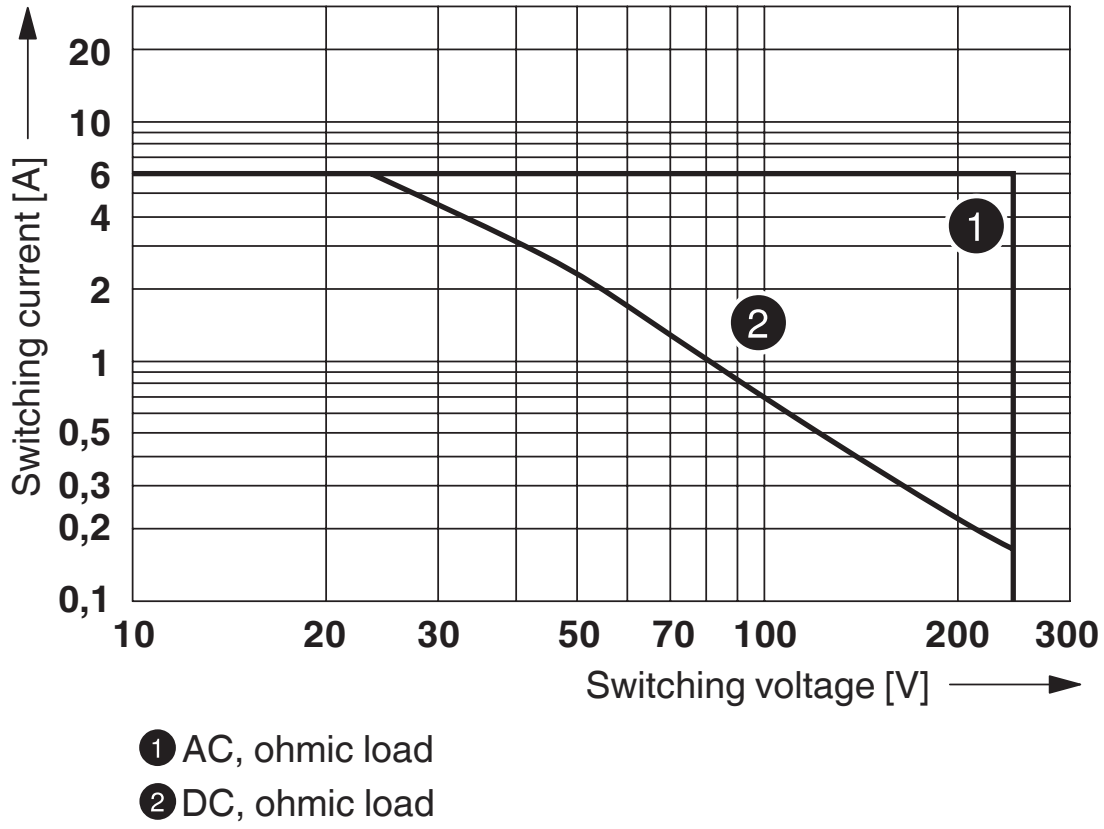


1 DC coil (observe contact derating)

2 AC coil (observe contact derating)

Operating voltage range

Diagram

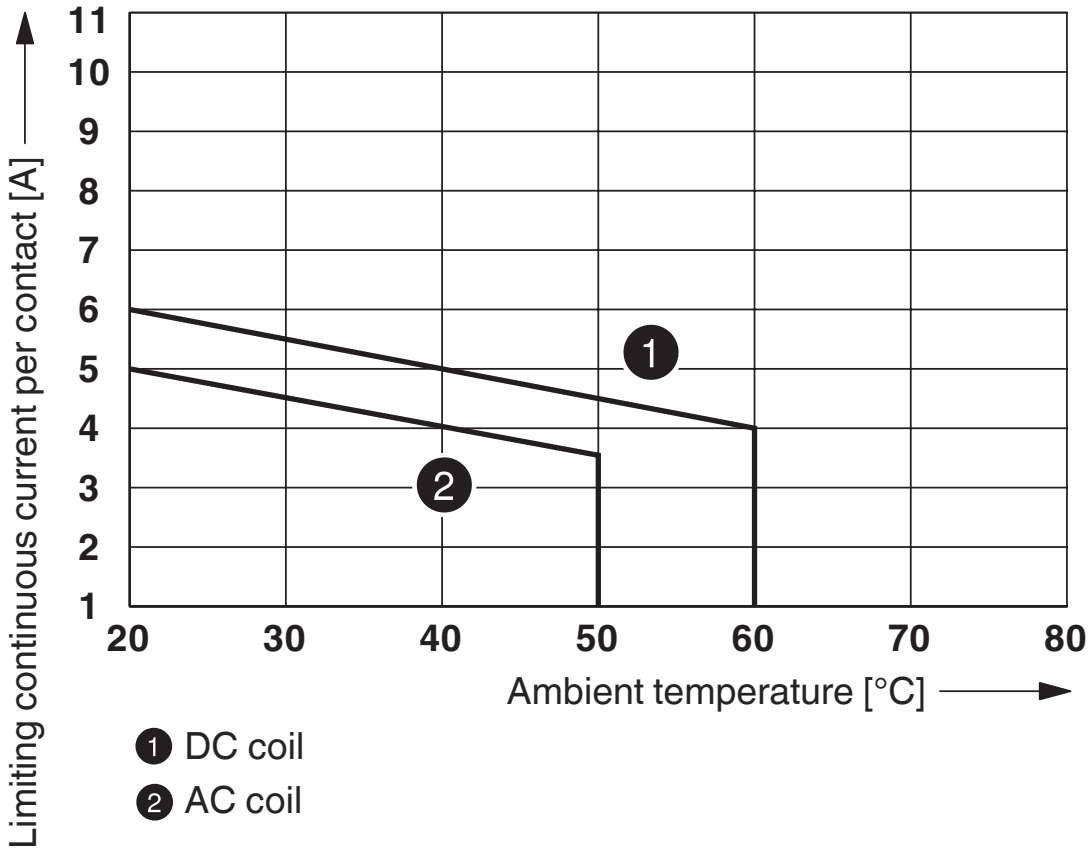


1 AC, ohmic load

2 DC, ohmic load

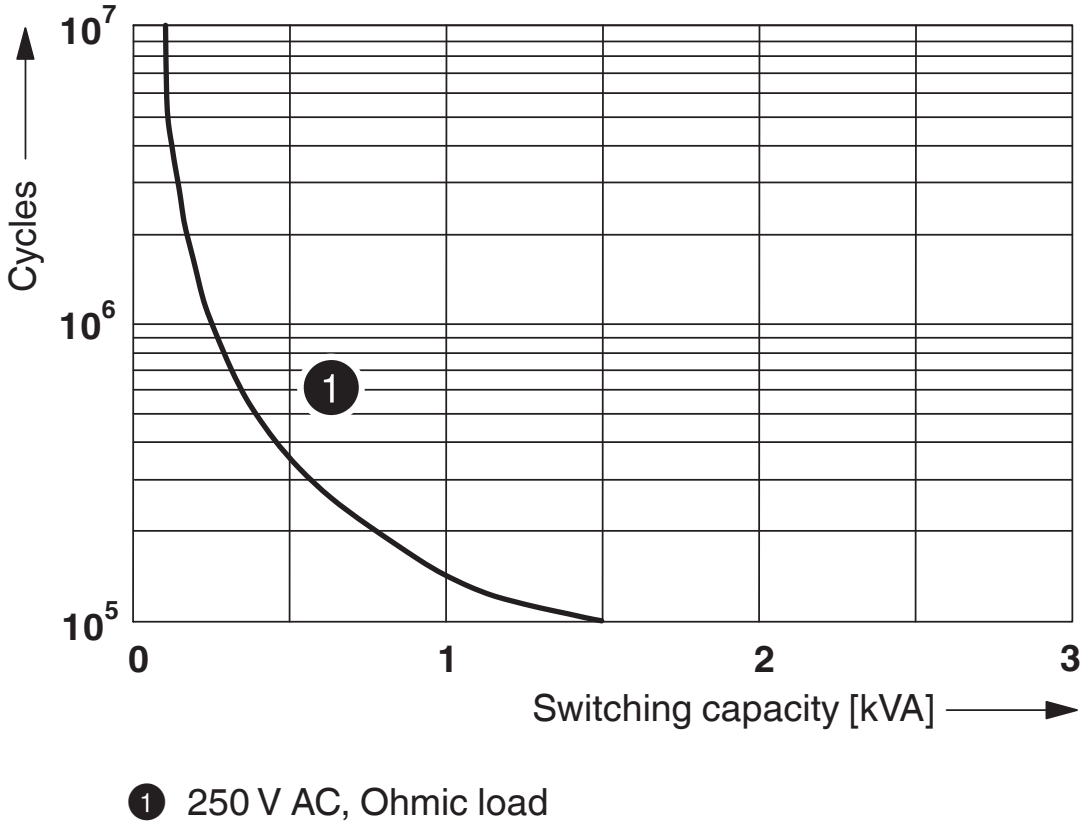
Interrupting rating

Diagram



Contact derating

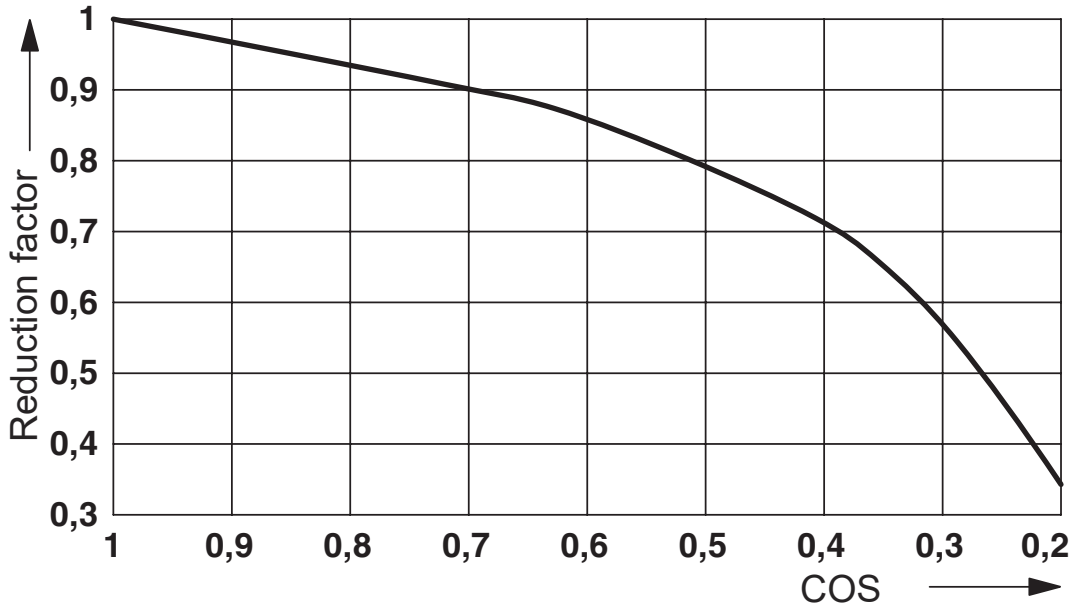
Diagram



1 250 V AC, Ohmic load

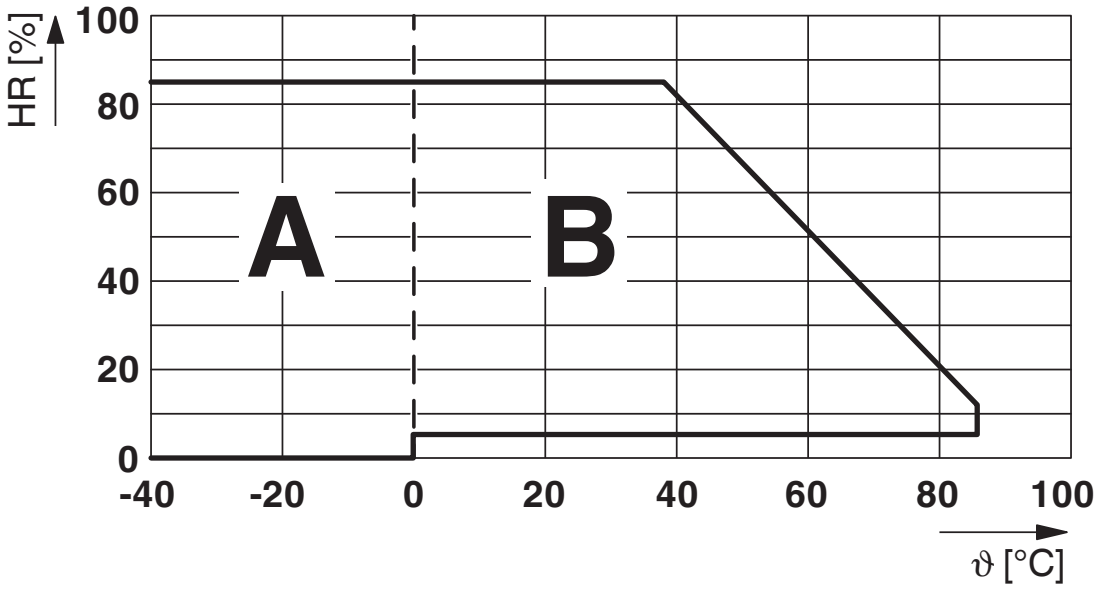
Electrical service life

Diagram



Service life reduction factor

Diagram

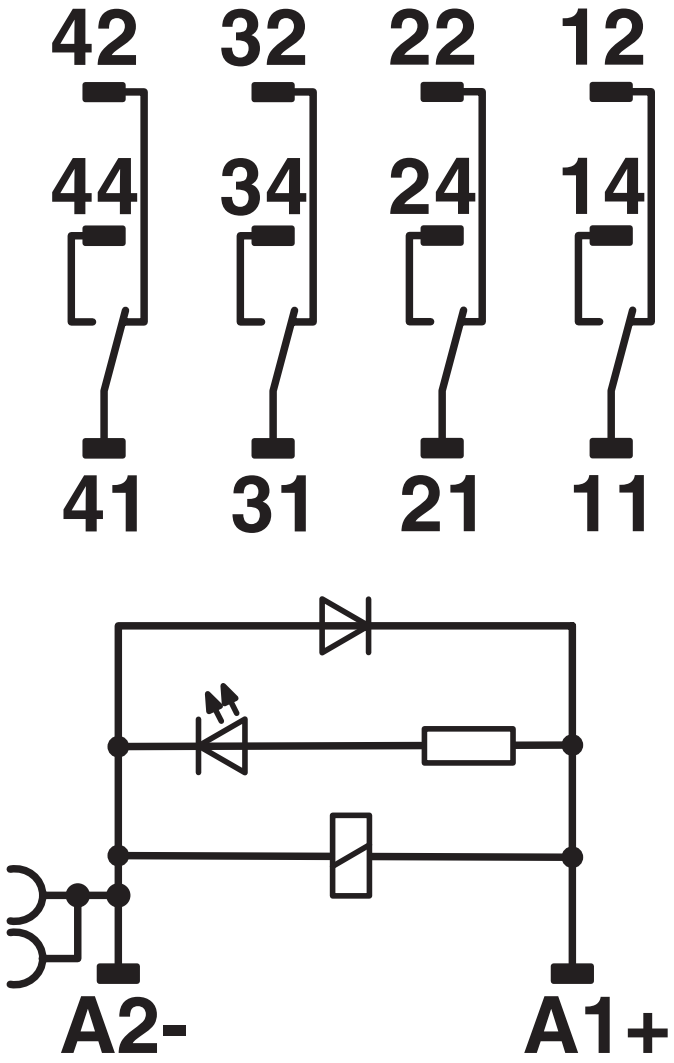


Permissible humidity for operation and storage.
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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.

Circuit diagram



DC coils

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/nl/products/2903308

CSA
Approval ID: 76787

DNV
Approval ID: TAA000018V

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Accessories

FBS 2-6 - Plug-in bridge

3030336

https://www.phoenixcontact.com/nl/products/3030336



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, nominal current: 32 A, color: red

FBS 2-6 BU - Plug-in bridge

3036932

https://www.phoenixcontact.com/nl/products/3036932



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, nominal current: 32 A, color: blue

FBS 2-6 GY - Plug-in bridge

3032237

https://www.phoenixcontact.com/nl/products/3032237



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, nominal current: 32 A, color: gray

STP 5-2 - Marker carriers

0800967

https://www.phoenixcontact.com/nl/products/0800967



Marker carriers, snaps into STTB 2,5, STTB 4, PTTB 2,5, and PTTB 4 double-level spring-cage terminal blocks, can be marked with UC-TM 5, UC-TMF 5, UCT-TM 5, UCT-TMF 5, ZB 5, or ZBF 5, gray (RAL 7042), unmarked, mounting type: plug in, text field height: 10.5 mm, text field width: 5 mm

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

0801733

https://www.phoenixcontact.com/nl/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

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

1204122

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



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

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

0801762

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



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

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

1204135

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



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

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

1201756

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



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

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

1201895

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



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

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

1201798

https://www.phoenixcontact.com/nl/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-colored

CLIPFIX 35 - End bracket

3022218

https://www.phoenixcontact.com/nl/products/3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

CLIPFIX 35-5 - End bracket

3022276

https://www.phoenixcontact.com/nl/products/3022276

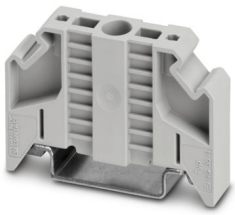


Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

E/NS 35 N - End bracket

0800886

https://www.phoenixcontact.com/nl/products/0800886



End clamp, width: 9.5 mm, color: gray

MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/nl/products/0201744



Test plug, with solder connection up to 1 mm^2 conductor cross-section, number of positions: 1, color: gray

MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/nl/products/0201663

Insulating sleeve, color: white



MPS-IH RD - Insulating sleeve

0201676

https://www.phoenixcontact.com/nl/products/0201676

Insulating sleeve, color: red

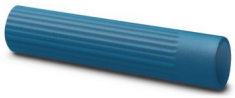


MPS-IH BU - Insulating sleeve

0201689

https://www.phoenixcontact.com/nl/products/0201689

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

https://www.phoenixcontact.com/nl/products/0201692

Insulating sleeve, color: yellow



MPS-IH GN - Insulating sleeve

0201702

https://www.phoenixcontact.com/nl/products/0201702

Insulating sleeve, color: green



MPS-IH GY - Insulating sleeve

0201728

https://www.phoenixcontact.com/nl/products/0201728

Insulating sleeve, color: gray



MPS-IH BK - Insulating sleeve

0201731

https://www.phoenixcontact.com/nl/products/0201731

Insulating sleeve, color: black



ZB 5 :UNBEDRUCKT - Zack marker strip

1050004

https://www.phoenixcontact.com/nl/products/1050004



Zack marker strip, Strip, white (RAL 9010), unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.1 mm

ZB 5 CUS - Zack marker strip

0824962

https://www.phoenixcontact.com/nl/products/0824962



Zack marker strip, can be ordered: Strip, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,LGS:FORTL.ZAHLEN - Zack marker strip

1050017

https://www.phoenixcontact.com/nl/products/1050017



Zack marker strip, Strip, white (RAL 9010), labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,QR:FORTL.ZAHLEN - Zack marker strip

1050020

https://www.phoenixcontact.com/nl/products/1050020



Zack marker strip, Strip, white (RAL 9010), Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,LGS:GLEICHE ZAHLEN - Zack marker strip

1050033

https://www.phoenixcontact.com/nl/products/1050033

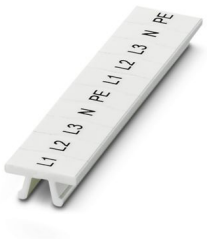


Zack marker strip, Strip, white (RAL 9010), labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

ZB 5,LGS:L1-N,PE - Zack marker strip

1050415

https://www.phoenixcontact.com/nl/products/1050415



Zack marker strip, Strip, white (RAL 9010), labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 5.15 mm

UC-TM 5 - Marker for terminal blocks

0818108

https://www.phoenixcontact.com/nl/products/0818108



Marker for terminal blocks, Sheet, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 96, text field height: 10.5 mm, text field width: 4.6 mm

UC-TM 5 CUS - Marker for terminal blocks

0824581

https://www.phoenixcontact.com/nl/products/0824581



Marker for terminal blocks, can be ordered: by sheet, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 96, text field height: 4.6 mm, text field width: 10.5 mm

UCT-TM 5 - Marker for terminal blocks

0828734

https://www.phoenixcontact.com/nl/products/0828734



Marker for terminal blocks, Sheet, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 72, text field height: 10.5 mm, text field width: 4.6 mm

UCT-TM 5 CUS - Marker for terminal blocks

0829595

https://www.phoenixcontact.com/nl/products/0829595

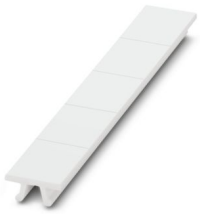


Marker for terminal blocks, Sheet, can be ordered: by sheet, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 5.2 mm, Number of individual labels: 72, text field height: 10.5 mm, text field width: 4.6 mm

ZB 15:UNBEDRUCKT - Zack marker strip

0811972

https://www.phoenixcontact.com/nl/products/0811972

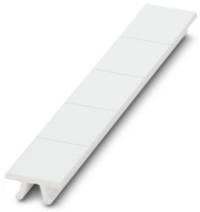


Zack marker strip, Strip, white (RAL 9010), unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 15.2 mm, Number of individual labels: 5, text field height: 10.5 mm, text field width: 15.1 mm

ZB 15 CUS - Zack marker strip

0824945

https://www.phoenixcontact.com/nl/products/0824945



Zack marker strip, can be ordered: Strip, white (RAL 9010), labeled according to customer specifications, mounting type: latching, for terminal block width: 15.2 mm, Number of individual labels: 5, text field height: 15.1 mm, text field width: 10.5 mm

ZB 15,LGS:L1-N,PE - Zack marker strip

0811998

https://www.phoenixcontact.com/nl/products/0811998



Zack marker strip, Strip, white (RAL 9010), labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 15.2 mm, Number of individual labels: 5, text field height: 10.5 mm, text field width: 15.1 mm

UC-TM 16 - Marker for terminal blocks

0819217

https://www.phoenixcontact.com/nl/products/0819217



Marker for terminal blocks, Sheet, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 16 mm, Number of individual labels: 32, text field height: 10.5 mm, text field width: 15.45 mm

UC-TMF 16 - Marker for terminal blocks

0819262

https://www.phoenixcontact.com/nl/products/0819262



Marker for terminal blocks, Sheet, white (RAL 9010), unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 16 mm, Number of individual labels: 32, text field height: 5.1 mm, text field width: 15.45 mm

RIF-2-BPT/4X21 - Relay base

2900934

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Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-RH-2 - Retaining bracket

2900954

https://www.phoenixcontact.com/nl/products/2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

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