

## Relay socket - RIF-1-BPT/2X21 - 2900931


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RIF-1... relay base, for miniature power relay with 1 or 2 PDTs or solid-state relays of the same design, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 733151
GTIN	4046356733151
Weight per Piece (excluding packing)	50.000 g
Custom tariff number	85366990
Country of origin	China

### Technical data

#### Dimensions

Width	16 mm
Height	96 mm
Depth with retaining bracket	75 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (Depends on application/assembly)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

#### Input data

Protective circuit	depending on the selected input/suppressor modules
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#### Connection data, input side

Connection name	Input side
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# Relay socket - RIF-1-BPT/2X21 - 2900931

## Technical data

### Connection data, input side

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with or without ferrule)
Conductor cross section flexible (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve)
	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
Conductor cross section AWG	26 ... 16

### Connection data, output side

Connection name	Output side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with or without ferrule)
Conductor cross section flexible (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve)
	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
Conductor cross section AWG	26 ... 16

### General

Type of note	Notes on operation
Note	FBS 2-6... plug-in bridge for the input side (A2) and FBS-2-8... plug-in bridge for the output side (11/21)
Nominal voltage U <sub>N</sub>	250 V AC/DC
Nominal current I <sub>N</sub>	max. 13 A (Depends on application/assembly)
Protective circuit	depending on the selected input/suppressor modules
Color	gray

### Standards and Regulations

Connection in acc. with standard	CSA
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## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Classifications

#### eCl@ss

eCl@ss 8.0	27371603
eCl@ss 9.0	27371603

#### ETIM

ETIM 2.0	EC001456
ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001456
ETIM 6.0	EC001456

#### UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39122326

### Approvals

#### Approvals


##### Approvals

UL Recognized / CSA / EAC / GL / LR / EAC / PRS

##### Ex Approvals






#### Approval details

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 113228
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CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	2607057
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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Approvals

EAC			EAC-Zulassung
GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	11247-14 HH
LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	15/20011
EAC			RU C- DE.A*30.B.01082
PRS		<a href="http://www.prs.pl/">http://www.prs.pl/</a>	TE/2108/880590/16

### Accessories

#### Accessories

##### End block

End clamp - CLIPFIX 35 - 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

##### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, color: white

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, color: red

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

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, color: black

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### Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red

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Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

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Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: gray

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Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: red

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Plug-in bridge - FBS 2-8 BU - 3032567



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: blue

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Plug-in bridge - FBS 2-8 GY 7042 - 3032541



Bridge for potential distribution

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### Plug-in module

Plug-in module - RIF-LDP-12-24 DC - 2900939



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 ... 24 V DC  $\pm 20\%$

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Plug-in module - RIF-LDP-48-60 DC - 2900940



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 48 ... 60 V DC  $\pm 20\%$

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Plug-in module - RIF-LDP-110 DC - 2900941



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 110 V DC  $\pm 20\%$

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

#### Plug-in module - RIF-LV-12-24 UC - 2900942



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 12 - 24 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-LV-48-60 UC - 2900943



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 48 - 60 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-LV-120-230 AC/110 DC - 2900944



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 120 - 230 V AC/110 V DC  $\pm 20\%$

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#### Plug-in module - RIF-V-12-24 UC - 2900945



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 12 - 24 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-V-48-60 UC - 2900947



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 48 - 60 V AC/DC  $\pm 20\%$

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

#### Plug-in module - RIF-V-120-230 UC - 2900948



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 120 - 230 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-RC-12-24 UC - 2900949



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 12 - 24 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-RC-48-60 UC - 2900950



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 48 - 60 V AC/DC  $\pm 20\%$

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#### Plug-in module - RIF-RC-120-230 UC - 2900951



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 120 ... 230 V AC/DC  $\pm 20\%$

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#### Timer module - RIF-T3-24UC - 2902647



Plug-in module for extending a relay module to create a timer relay, 3 time functions, 4 time ranges, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, input voltage: 24 V DC

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### Retaining bracket

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

#### Retaining bracket - RIF-RH-1 - 2900953



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 16 mm tall miniature power relay and solid-state relay

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#### Retaining bracket - RIF-RH-1-H - 2904468



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 25 mm tall miniature power relay and solid-state relay

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#### Relay retaining bracket - RIF-RHM-1 - 2905986



Relay retaining bracket, wire model, suitable for RIF-1 relay base, for 16 mm high octal miniature power and solid-state relays

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#### Relay retaining bracket - RIF-RHM-1-H - 2905985



Relay retaining bracket, wire model, suitable for RIF-1 relay base, for 25 mm high octal miniature power relays

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### Single relay

#### Single relay - REL-MR- 12DC/21HC - 2961309



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 12 V DC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR- 24DC/21HC - 2961312



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V DC

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Single relay - REL-MR- 48DC/21HC - 2834821



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 48 V DC

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Single relay - REL-MR- 60DC/21HC - 2961325



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, 60 V DC

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Single relay - REL-MR-110DC/21HC - 2961338



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 110 V DC

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Single relay - REL-MR- 24AC/21HC - 2961406



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V AC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR-120AC/21HC - 2961419



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 120 V AC

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Single relay - REL-MR-230AC/21HC - 2961422



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 230 V AC

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Single relay - REL-MR- 12DC/21HC AU - 2961532



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 12 V DC

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Single relay - REL-MR- 24DC/21HC AU - 2961545



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 24 V DC

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Single relay - REL-MR-110DC/21HC AU - 2961561



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 110 V DC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR- 24AC/21HC AU - 2961503



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 24 V AC

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Single relay - REL-MR-120AC/21HC AU - 2961516



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 120 V AC

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Single relay - REL-MR-230AC/21HC AU - 2961529



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 230 V AC

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Single relay - REL-MR- 12DC/21-21 - 2961257



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 12 V DC

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Single relay - REL-MR- 24DC/21-21 - 2961192



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 24 V DC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR- 48DC/21-21 - 2834834



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 48 V DC

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Single relay - REL-MR- 60DC/21-21 - 2961273



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 60 V DC

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Single relay - REL-MR-110DC/21-21 - 2961202



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 110 V DC

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Single relay - REL-MR- 24AC/21-21 - 2961435



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 24 V AC

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Single relay - REL-MR-120AC/21-21 - 2961448



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 120 V AC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR-230AC/21-21 - 2961451



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 230 V AC

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Single relay - REL-MR- 12DC/21-21AU - 2961299



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 12 V DC

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Single relay - REL-MR- 24DC/21-21AU - 2961215



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 24 V DC

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Single relay - REL-MR- 48DC/21-21AU - 2834847



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 48 V DC

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Single relay - REL-MR- 60DC/21-21AU - 2961286



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 60 V DC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR-110DC/21-21AU - 2961228



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

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Single relay - REL-MR- 24AC/21-21AU - 2961464



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 24 V AC

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Single relay - REL-MR-120AC/21-21AU - 2961477



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 120 V AC

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Single relay - REL-MR-230AC/21-21AU - 2961480



Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 230 V AC

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Single relay - REL-MR- 24DC/21HC/MS - 2987888



Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

#### Single relay - REL-MR- 24AC/21HC/MS - 2987891



Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 24 V AC

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#### Single relay - REL-MR-120AC/21HC/MS - 2987901



Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 120 V AC

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#### Single relay - REL-MR-230AC/21HC/MS - 2987914



Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 230 V AC

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#### Single relay - REL-MR- 24DC/21HC AU/MS - 2987927



Plug-in miniature relay, with multi-layer contact with hard gold coating, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

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#### Single relay - REL-MR-230AC/21HC AU/MS - 2987930



Plug-in miniature relay, with multi-layer contact with hard gold coating, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 230 V AC

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR- 24DC/21-21/MS - 2987943



Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2, input voltage 24 V DC

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Single relay - REL-MR- 24AC/21-21/MS - 2987956



Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, input voltage 24 V AC

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Single relay - REL-MR-120AC/21-21/MS - 2987969



Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 120 V AC

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Single relay - REL-MR-230AC/21-21/MS - 2987972



Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 230 V AC

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Single relay - REL-MR- 24DC/21-21AU/MS - 2987985



Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Single relay - REL-MR-230AC/21-21AU/MS - 2987998



Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 230 V AC

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### Single solid-state relay

Miniature solid-state relay - OPT- 5DC/ 24DC/ 5 - 2982113



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 5 V DC, output: 3 - 33 V DC/5 A

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Miniature solid-state relay - OPT-24DC/ 24DC/ 5 - 2982100



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

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Miniature solid-state relay - OPT-60DC/ 24DC/ 5 - 2982126



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 33 V DC/5 A

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Miniature solid-state relay - OPT- 5DC/230AC/ 2 - 2982168



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 5 V DC, output: 24 - 253 V AC/2 A

## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Miniature solid-state relay - OPT-24DC/230AC/ 2 - 2982171



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/2 A

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Miniature solid-state relay - OPT-60DC/230AC/ 2 - 2982184



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 24 - 253 V AC/2 A

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### Terminal marking

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

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Zack marker strip - ZB 15:UNBEDRUCKT - 0811972



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 15.2 mm, Lettering field: 10.5 x 15.1 mm

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Marker for terminal blocks - UC-TM 16 - 0819217



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 16 mm, Lettering field: 15.45 x 10.5 mm

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## Relay socket - RIF-1-BPT/2X21 - 2900931

### Accessories

Marker for terminal blocks - UC-TMF 16 - 0819262



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into flat marker groove, for terminal block width: 16 mm, Lettering field: 15.45 x 5.1 mm

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### Test plug terminal block

Test plugs - MPS-MT - 0201744



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