Relay base - 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 pc
GTIN	4 046356 733151
GTIN	4046356733151
Weight per Piece (excluding packing)	50.000 g
Custom tariff number	85366990
Country of origin	China

Technical data

Note

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)

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

Relay base - RIF-1-BPT/2X21 - 2900931

Technical data

Input data

Protective circuit	depending on the selected input/suppressor modules

General

Nominal voltage U_N	250 V AC/DC
Nominal current I_N	max. 13 A (Depends on application/assembly)
Protective circuit	depending on the selected input/suppressor modules
Color	gray
Flammability rating according to UL 94	V2 (Housing)
Mounting position	any

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	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)

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	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)

Standards and Regulations

Connection in acc. with standard	CSA

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years

Relay base - RIF-1-BPT/2X21 - 2900931

Technical data

Environmental Product Compliance

	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371603
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
ETIM 7.0	EC001456

UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39122326
UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Relay base - RIF-1-BPT/2X21 - 2900931

Approvals

Approvals

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

Ex Approvals

Approval details

DNV GL	https://approvalfinder.dnvgl.com/	TAA000018V
CSA	http://www.csagroup.org/services-industries/product-listing/	2607057
PRS	http://www.prs.pl/	TE/2108/880590/16
LR	http://www.lr.org/en	15/20011
UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 113228
EAC		RU D-DE.B*00573/18
DNV GL	https://approvalfinder.dnvgl.com/	TAA000018V

Accessories

Accessories

Relay base - RIF-1-BPT/2X21 - 2900931

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



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



Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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



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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

Plug-in bridge - FBS 2-8 - 3030284



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

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

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



Bridge for potential distribution

Marker carriers

Marker carriers - STP 5-2 - 0800967



Double marker carrier, snaps onto the double-level spring-cage terminal block STTB 2,5, STTB 4, PTTB 2,5, PTTB 4 can be marked with UC-TM 5, ZB 5 or UC-TMF 5, ZBF 5

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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 ±20 %

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 ±20 %

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 ±20 %

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 ±20 %

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 ±20 %

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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 ±20 %

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 ±20 %

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 ±20 %

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 ±20 %

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 ±20 %

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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 ±20 %

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 ±20 %

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: 12 ... 24 V DC

Retaining bracket

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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



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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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



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

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



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

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



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

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



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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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



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

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



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

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



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

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



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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

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

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

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

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

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

Terminal marking

Relay base - RIF-1-BPT/2X21 - 2900931

Accessories

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



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: 5.2 mm, lettering field size: 5.1 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 15:UNBEDRUCKT - 0811972



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: 15.2 mm, lettering field size: 10.5 x 15.1 mm, Number of individual labels: 5

Marker for terminal blocks - UC-TM 16 - 0819217



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

Marker for terminal blocks - UC-TMF 16 - 0819262



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 flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

Test plug terminal block

Test plugs - MPS-MT - 0201744



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

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