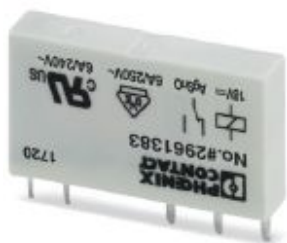


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Plug-in miniature power relay, with power contact, 1 PDT, input voltage 18 V DC

- ✓ Safe isolation according to DIN EN 50178 between coil and contact
- ✓ High degree of protection up to RT III depending on type (wash-proof)
- ✓ Power contacts up to 6 A



Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 936419
GTIN	4017918936419
Sales Key	08

Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	RT III

Nominal input voltage U_N	18 V DC
Typical input current at U_N	9 mA

Single relay - REL-MR- 18DC/21 - 2961383

Technical data

Coil side

Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	1906 Ω $\pm$ 10 % (at 20 °C)
Power dissipation for nominal condition	0.16 W

Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	10 A (4 s)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 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)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)
Motor load according to UL 508	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)

General

Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Connection data

Connection method	Solder connection
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Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1
Pollution degree	3
Overvoltage category	III

Single relay - REL-MR- 18DC/21 - 2961383

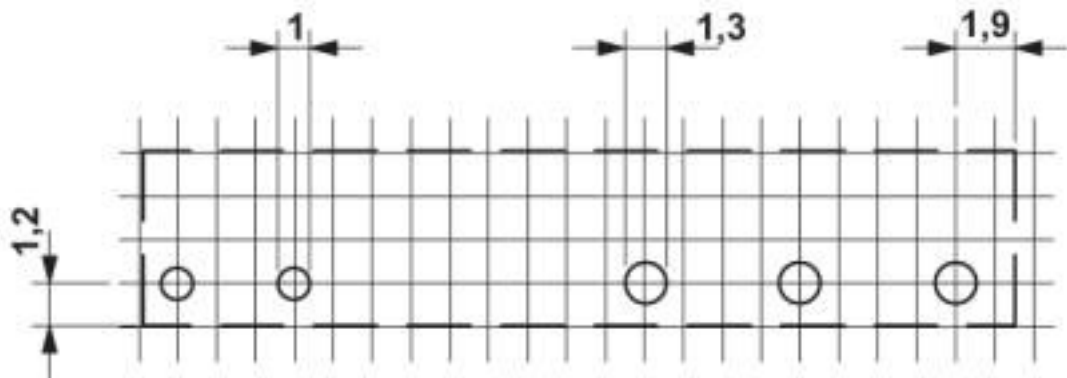
Technical data

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

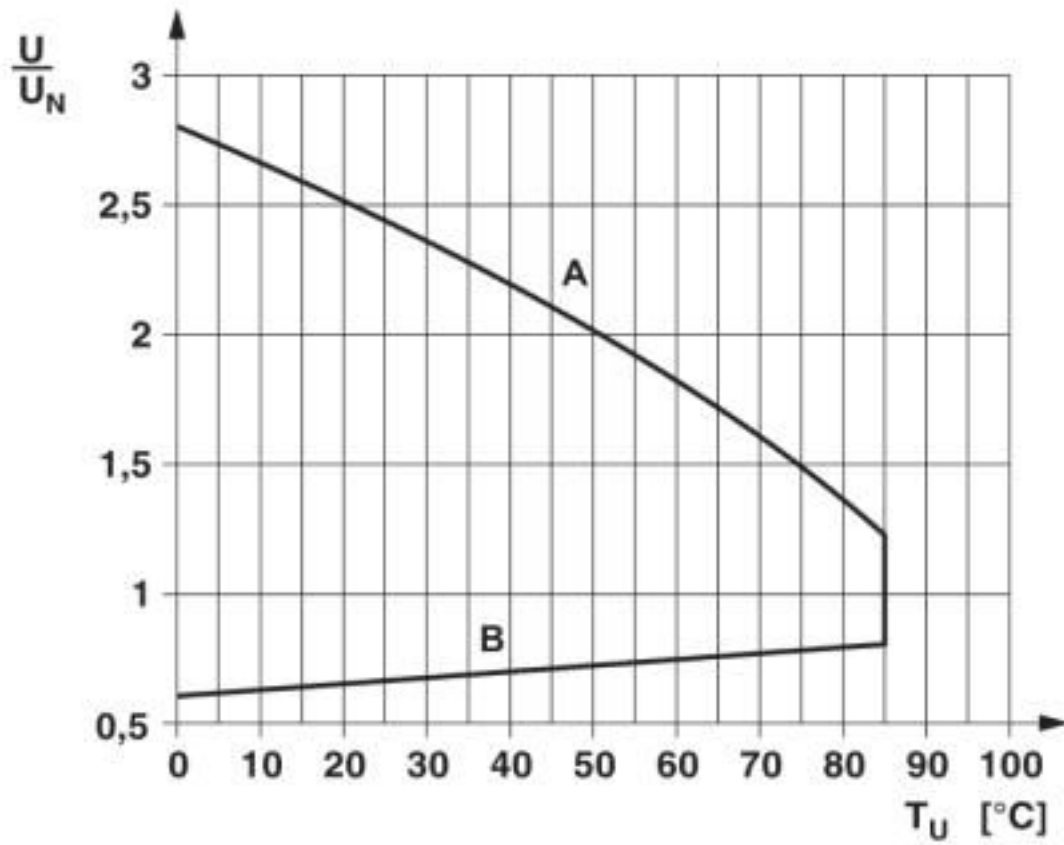
Drilling diagram



a = pitch division 1.25 mm and 1.27 mm

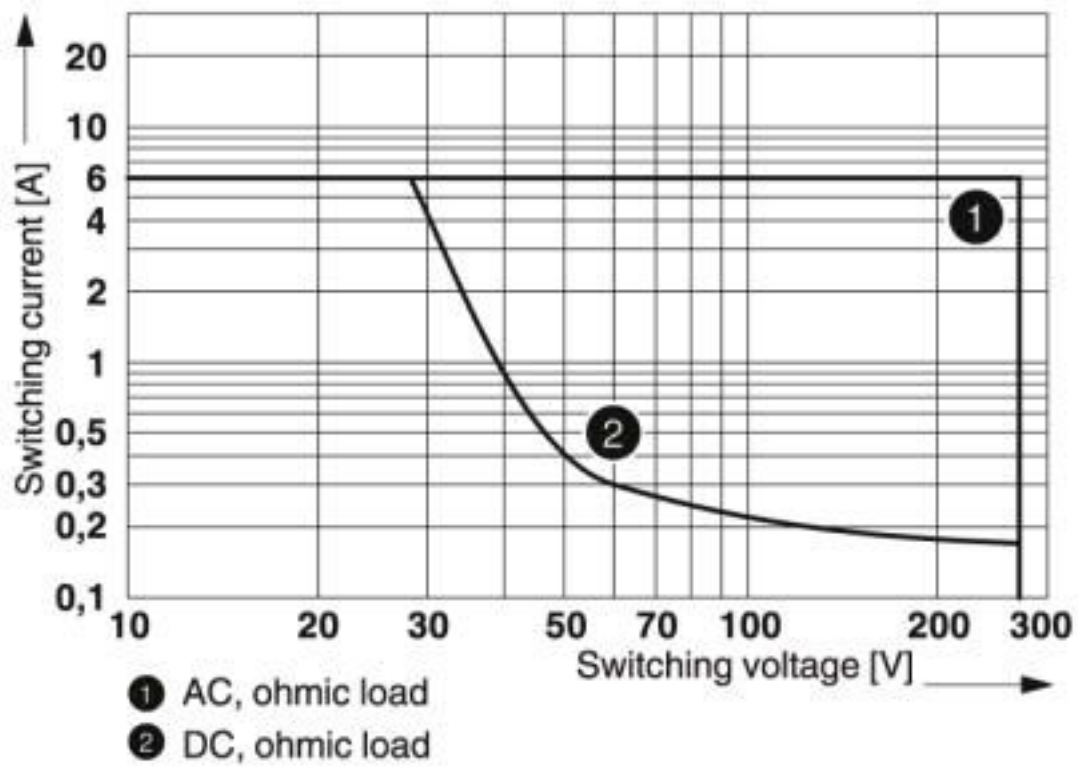
Single relay - REL-MR- 18DC/21 - 2961383

Diagram



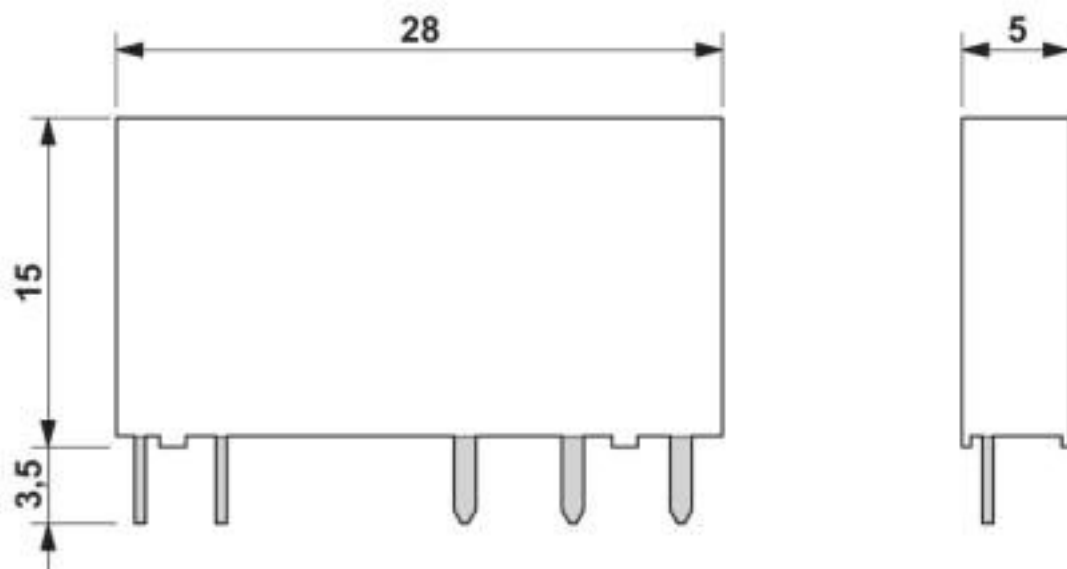
Single relay - REL-MR- 18DC/21 - 2961383

Diagram



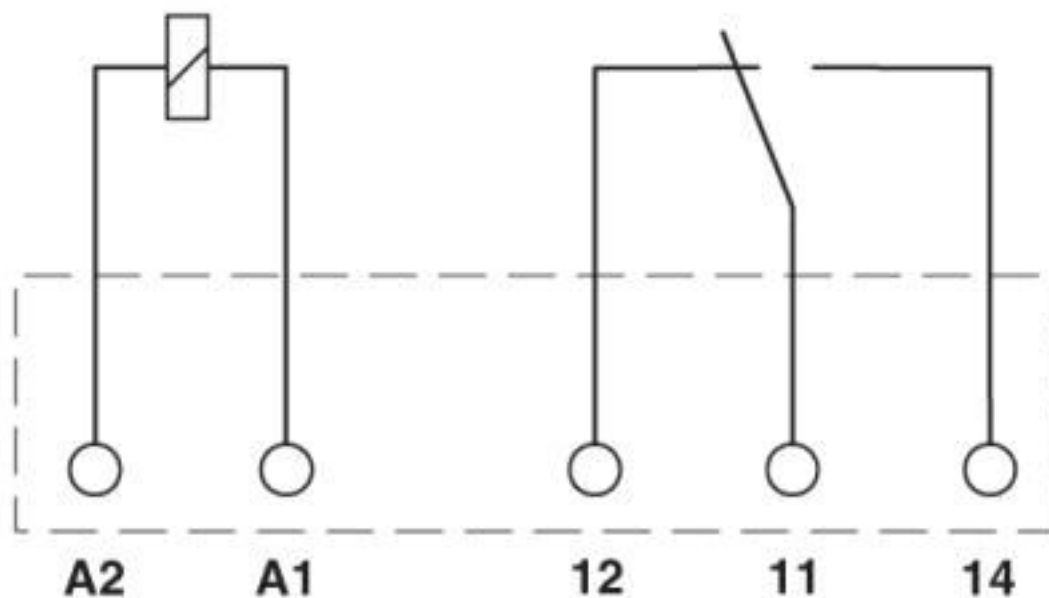
Interrupting rating

Dimensional drawing



Single relay - REL-MR- 18DC/21 - 2961383

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27371601
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	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437
ETIM 7.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515

Single relay - REL-MR- 18DC/21 - 2961383

Classifications

UNSPSC

UNSPSC 13.2	39122334
UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

EAC / EAC / UL Recognized / UL Recognized / cUL Recognized / cUL Recognized / VDE Zeichengenehmigung / VDE Zeichengenehmigung

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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EAC		RU*C- DE.*08.B.00010
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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Single relay - REL-MR- 18DC/21 - 2961383

Approvals

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40010212
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VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40032864
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Accessories

Additional products

Relay base - PLC-BSP- 24DC/21RW - 2961396



6.2 mm PLC basic terminal block for railway applications with spring-cage connection, without relay or solid-state relay, range from $0.7 \times U_N$ to $1.25 \times U_N$, temperature range from -25°C to $+70^\circ\text{C}$, 1 PDT, input voltage 24 V DC

Relay base - PLC-BPT- 24DC/21RW - 2900261



6.2 mm PLC basic terminal block for railway applications with push-in connection, without relay or solid-state relay, range from $0.7 \times U_N$ to $1.25 \times U_N$, temperature range from -25°C to $+70^\circ\text{C}$, 1 PDT, input voltage 24 V DC

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