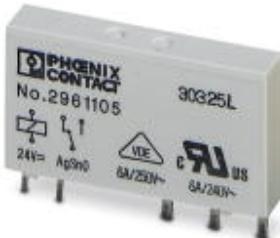


Single relay - REL-MR- 18DC/21AU - 2961493

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

The illustration shows the version
REL-MR- 24DC/21

Product Features

- 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



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	6.0 g
Custom tariff number	85364190
Country of origin	Czech Republic

Technical data

Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	18 V DC
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Technical data

Coil side

Typical input current at U_N	9 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	1906 $\Omega \pm 10\%$ (at 20 °C)
Power dissipation for nominal condition	0.16 W

Contact side

Contact type	1 PDT
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Min. switching current	1 mA (at 24 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 24 V, AC15)
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
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 in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

General

Operating mode	100% operating factor
Degree of protection	RT III (wash-proof)
Mechanical service life	2×10^7 cycles

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Technical data

General

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	III

Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	III

Classifications

eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

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Approvals

Approvals

Approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / VDE Zeichengenehmigung / cUL Recognized / EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

VDE Gutachten mit Fertigungsüberwachung 

VDE Zeichengenehmigung 

cUL Recognized 

EAC

UL Recognized

cUL Recognized

Single relay - REL-MR- 18DC/21AU - 2961493

Approvals

cULus Recognized 

Accessories

Additional products

Relay socket - 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

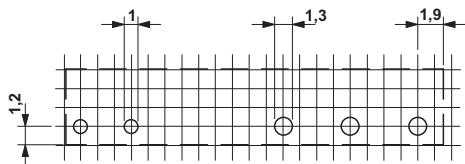
Relay socket - PLC-BPT- 24DC/21RW - 2900261



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

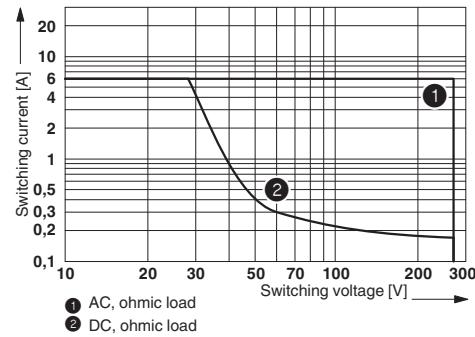
Drawings

Drilling diagram



a = pitch division 1.25 mm and 1.27 mm

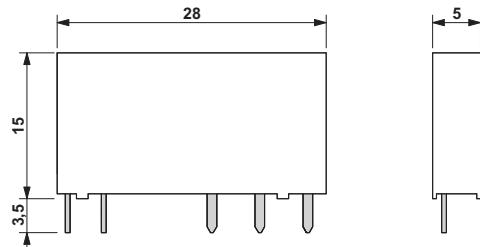
Diagram



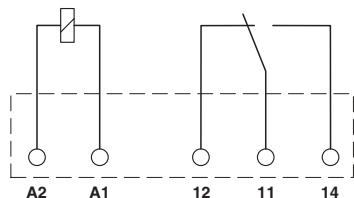
Interrupting rating

Single relay - REL-MR- 18DC/21AU - 2961493

Dimensional drawing



Circuit diagram



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