

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

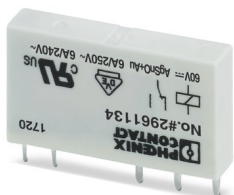


2961134

<https://www.phoenixcontact.com/de/produkte/2961134>

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 60 V DC



## Your advantages

- 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

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



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## Commercial Data

Item number	2961134
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	G1 - Relais
Product Key	CK6195
Catalog Page	Page 394 (C-5-2019)
GTIN	4017918130848
Weight per Piece (including packing)	6,47 g
Weight per Piece (excluding packing)	6,47 g
Customs tariff number	85364190
Country of origin	CZ

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



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## Technical Data

### Product properties

Product type	Single relay
Set comprises	2966142 PLC-RSC- 60DC/21AU
	2966281 PLC-RSC-120UC/21AU
	2980034 PLC-RSC-125DC/21AU
	2966294 PLC-RSC-230UC/21AU
	2966294 PLC-RSC-230UC/21AU
	2966579 PLC-RSP- 60DC/21AU
	2966582 PLC-RSP-120UC/21AU
	2966647 PLC-RSP-230UC/21AU
	2900309 PLC-RPT- 60DC/21AU
	2900310 PLC-RPT-120UC/21AU
	2900311 PLC-RPT-230UC/21AU
	2966320 PLC-RSC-120UC/ 1AU/SEN
	2966333 PLC-RSC-230UC/ 1AU/SEN
	2967390 PLC-RSP-120UC/ 1AU/SEN
	2967413 PLC-RSP-230UC/ 1AU/SEN
	2900314 PLC-RPT-120UC/ 1AU/SEN
2900315 PLC-RPT-230UC/ 1AU/SEN	
2987066 PLC-RSP-110UC/21AU/RW	
2900323 PLC-RPT-110UC/21AU/RW	
Operating mode	100% operating factor
Mechanical service life	2x 10 <sup>7</sup> cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	3

### Electrical properties

Maximum power dissipation for nominal condition	0.18 W
Test voltage	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	60 V DC
Input voltage range	36 V DC ... 165 V DC
Typical input current at U <sub>N</sub>	3 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	20500 Ω ±15 % (at 20 °C)

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## Output data

### Switching

Contact type	1 changeover contact
Type of switch contact	Single contact
Drive and function	monostable
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

### Switching: when the gold layer is destroyed

Note	<b>the following values are applicable if a gold layer is destroyed</b>
Contact material	AgSnO
Maximum switching voltage	250 V AC
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	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)

## Connection data

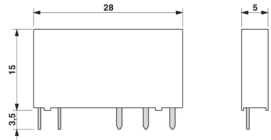
Connection method	Solder connection
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## Dimensions

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

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Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Approval data

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group EN 60068-2-60
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## Standards and regulations

Standards/regulations	IEC 60664 EN 50178 EN 61810-1
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## Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

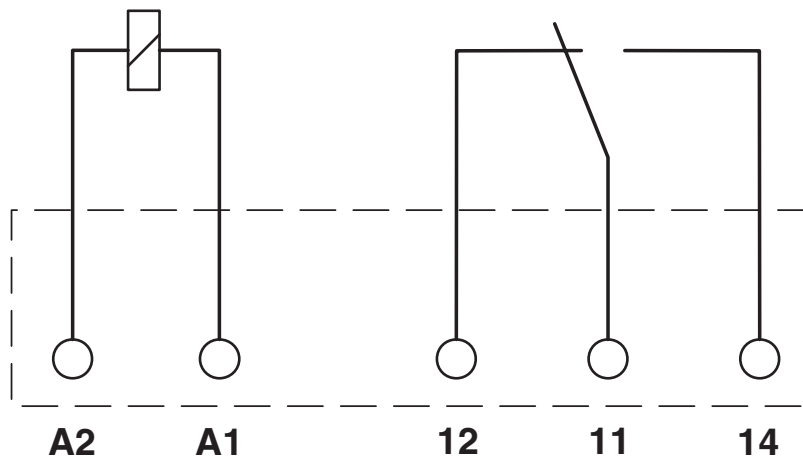
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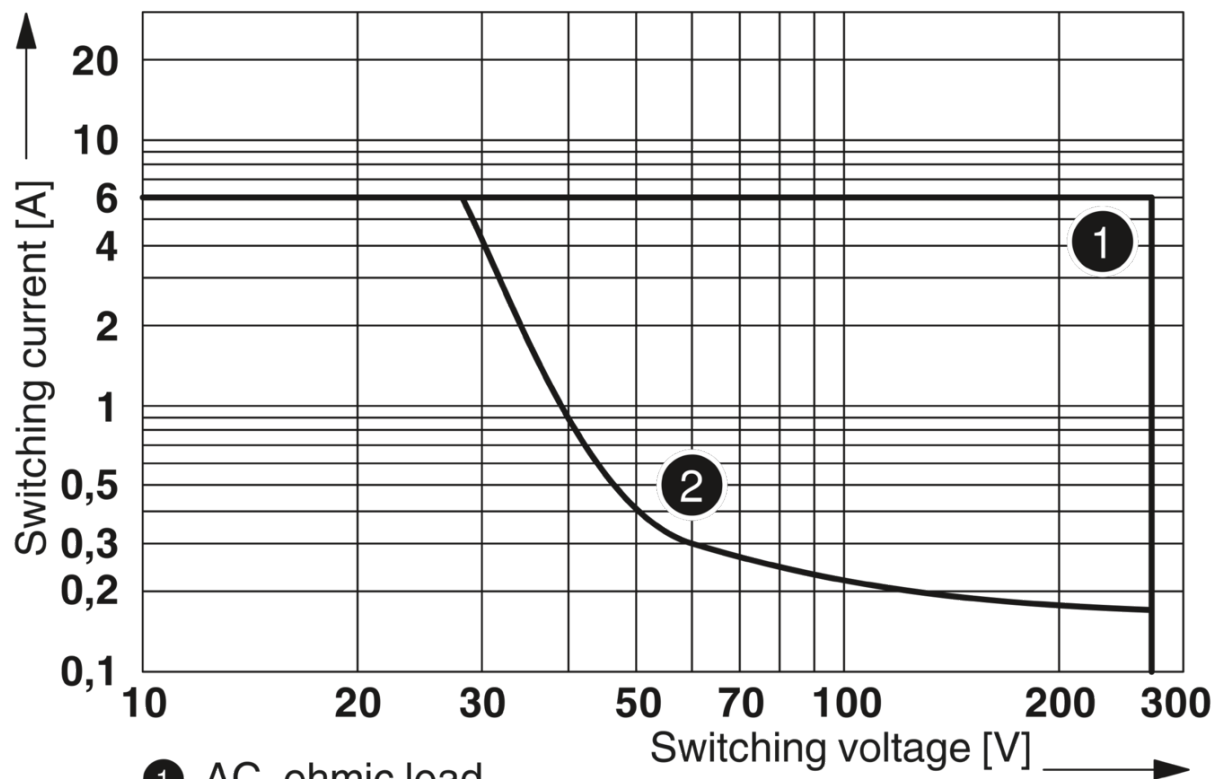
<https://www.phoenixcontact.com/de/produkte/2961134>

## Drawings

Circuit diagram



Diagram



- ① AC, ohmic load
- ② DC, ohmic load

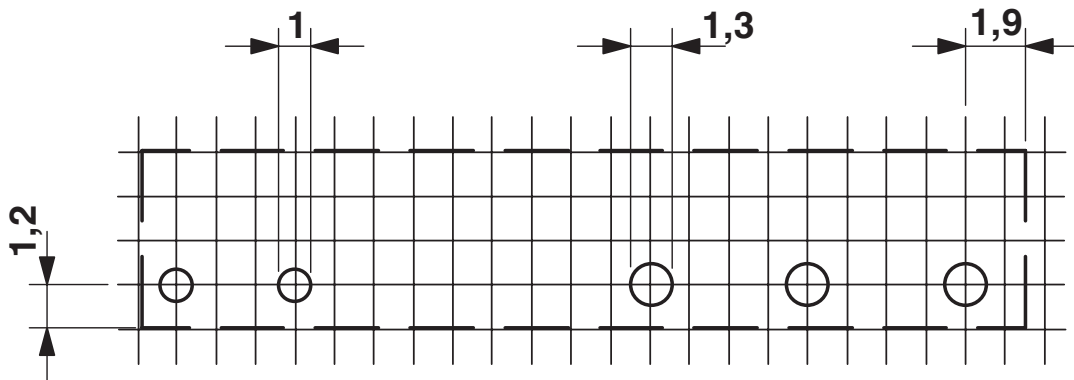
Interrupting rating

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

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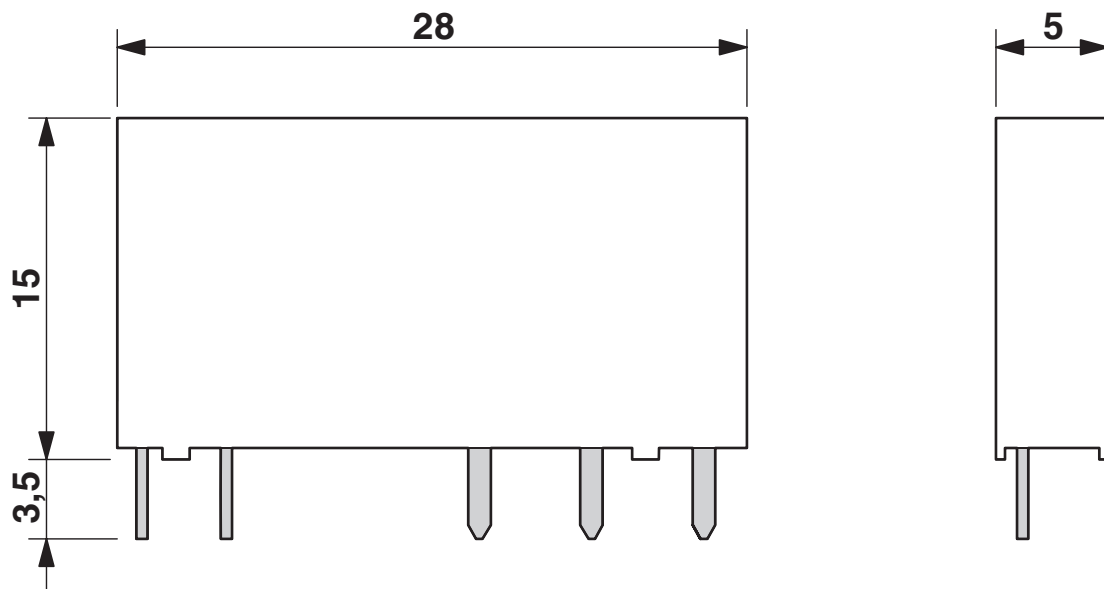
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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

Dimensional drawing



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



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## Approvals



**cUL Recognized**  
Approval ID: FILE E 172140



**UL Recognized**  
Approval ID: FILE E 172140



**EAC**  
Approval ID: TR\_TS\_D\_00573\_c



**UL Recognized**  
Approval ID: FILE E 172140



**EAC**  
Approval ID: RU\*C-DE.\*08.B.00010



**VDE Zeichengenehmigung**  
Approval ID: 40010212

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Reports with production monitoring			-	-



**VDE Zeichengenehmigung**  
Approval ID: 40032864

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Mark approval certificate			-	-



**PRS**  
Approval ID: TE/2109/880590/16



**cUL Recognized**  
Approval ID: FILE E 172140



**VDE Zeichengenehmigung**  
Approval ID: 40054426



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



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## Classifications

### ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

### ETIM

ETIM 8.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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# Single relay - REL-MR- 60DC/21AU



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## Environmental Product Compliance

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

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## Accessories

### Relay base

Relay base - PLC-BPT- 60DC/21 - 2900279

<https://www.phoenixcontact.com/de/produkte/2900279>



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 60 V DC

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### Relay base

Relay base - PLC-BSC- 60DC/21 - 2966100

<https://www.phoenixcontact.com/de/produkte/2966100>



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 60 V DC

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

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## Relay base

Relay base - PLC-BPT-120UC/21 - 2900280

<https://www.phoenixcontact.com/de/produkte/2900280>



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

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## Relay base

Relay base - PLC-BSC-120UC/21 - 2966032

<https://www.phoenixcontact.com/de/produkte/2966032>



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/DC

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

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<https://www.phoenixcontact.com/de/produkte/2961134>

## Relay base

Relay base - PLC-BSC-125DC/21 - 2980018

<https://www.phoenixcontact.com/de/produkte/2980018>



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 125 V DC

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## Relay base

Relay base - PLC-BPT-230UC/21 - 2900281

<https://www.phoenixcontact.com/de/produkte/2900281>



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

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

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<https://www.phoenixcontact.com/de/produkte/2961134>



## Relay base

Relay base - PLC-BSC-230UC/21 - 2966045

<https://www.phoenixcontact.com/de/produkte/2966045>



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 230 V AC/DC

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## Relay base

Relay base - PLC-BPT-120UC/ 1/SEN - 2900451

<https://www.phoenixcontact.com/de/produkte/2900451>



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC/DC

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

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## Relay base

Relay base - PLC-BSC-120UC/ 1/SEN - 2966074

<https://www.phoenixcontact.com/de/produkte/2966074>



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC/DC

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## Relay base

Relay base - PLC-BPT-230UC/ 1/SEN - 2900452

<https://www.phoenixcontact.com/de/produkte/2900452>



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC/DC

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

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## Relay base

Relay base - PLC-BSC-230UC/ 1/SEN - 2966087

<https://www.phoenixcontact.com/de/produkte/2966087>



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on NS 35/7,5 DIN rail, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage: 230 V AC/DC

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## Relay base

Relay base - PLC-BPT-120UC/21/SO46 - 2900453

<https://www.phoenixcontact.com/de/produkte/2900453>



6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC



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

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## Relay base

Relay base - PLC-BSC-120UC/21/SO46 - 2980319

<https://www.phoenixcontact.com/de/produkte/2980319>



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

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## Relay base

Relay base - PLC-BPT-230UC/21/SO46 - 2900455

<https://www.phoenixcontact.com/de/produkte/2900455>



6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

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

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<https://www.phoenixcontact.com/de/produkte/2961134>

## Relay base

Relay base - PLC-BSC-230UC/21/SO46 - 2980335

<https://www.phoenixcontact.com/de/produkte/2980335>



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

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## Relay base

Relay base - PLC-BPT-120UC/ 1/SEN/SO46 - 2900456

<https://www.phoenixcontact.com/de/produkte/2900456>



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

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

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<https://www.phoenixcontact.com/de/produkte/2961134>

## Relay base

Relay base - PLC-BSC-120UC/ 1/SEN/SO46 - 2980322

<https://www.phoenixcontact.com/de/produkte/2980322>



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

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## Relay base

Relay base - PLC-BPT-230UC/ 1/SEN/SO46 - 2900457

<https://www.phoenixcontact.com/de/produkte/2900457>



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

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

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<https://www.phoenixcontact.com/de/produkte/2961134>



## Relay base

Relay base - PLC-BSC-230UC/ 1/SEN/SO46 - 2980348

<https://www.phoenixcontact.com/de/produkte/2980348>



6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

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