

## Relay connectors - ST-REL3-SG-B 60/21/P - 2824064

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Relay plug, fitted with latching miniature switching relay, contacts (AgSnO): small to large loads, 1 PDT, 60 V DC input voltage, with protection against polarity reversal and freewheeling diode, positive switching

The figure shows version ST-REL3-SG-B 24/21/M



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 139346
GTIN	4017918139346

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

#### Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

#### Coil side

Nominal input voltage $U_N$	60 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	typ. 9 mA
Typical response time	5 ms
Typical release time	5 ms

## Relay connectors - ST-REL3-SG-B 60/21/P - 2824064

### Technical data

#### Coil side

Coil voltage	24 V DC
Protective circuit	Free-wheeling diode Damping diode
	Reverse polarity protection Polarity protection diode
Pulse time range	30 ms ... 5 s
Power dissipation for nominal condition	0.54 W

#### Contact side

Contact type	Single contact, 1-PDT
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 5 V)
	24 V (at 24 V)
Min. switching current	1 mA (at 24 V)
	100 mA (At 5 V)
Maximum inrush current	8 A
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	43 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	100 W (at 220 V DC)
	1500 VA (for 250 V AC)

#### General

Test voltage relay winding/relay contact	2 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	approx. 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

#### Standards and Regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	DIN VDE 0109-11, draft
	DIN EN 50178/VDE 0160 (in relevant parts)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV
Pollution degree	2
Overvoltage category	II
Designation	Air clearances and creepage distances between the power circuits

## Relay connectors - ST-REL3-SG-B 60/21/P - 2824064

### Technical data

#### Standards and Regulations

Standards/regulations	DIN EN 50178
Insulation	Basic insulation

#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

---

Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>