

## Relay connectors - ST-REL3-SG-B 24/21/P - 2824255

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Relay plug, fitted with latching miniature switching relay, contacts (AgSnO): small to large loads, 1 PDT, 24 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	
GTIN	4017918077631

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### 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 $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	typ. 8 mA
Typical response time	5 ms
Typical release time	5 ms

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### 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	0.19 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/DIN VDE 0160 (in relevant parts)
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Insulation	Basic insulation

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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## Technical data

### Environmental Product Compliance

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

## Approvals

### Approvals

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Approvals


EAC

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Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B.01082
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