

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 illustration shows version ST-REL3-SG-B 24/21/M



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	34.0 g
Custom tariff number	85364190
Country of origin	Germany

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

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Technical data

Coil side

Typical response time	5 ms
Typical release time	5 ms
Coil voltage	24 V DC
Protective circuit	Free-wheeling diode Damping diode
	Protection against polarity reversal 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
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)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	40 W (at 48 V DC)
	35 W (at 60 V DC)
	30 W (at 110 V DC)
	60 W (at 220 V DC)

General

Test voltage relay winding/relay contact	2 kV _{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	Approx. 10 ⁷ cycles
Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

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Technical data

General

	DIN VDE 0109-11, draft
	DIN EN 50178/DIN VDE 0160 (in relevant parts)
Degree of pollution	2
Overvoltage category	II
Standards/regulations	EN 50178
	IEC 62103
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Mounting position	any
Assembly instructions	In rows with zero spacing

Standards and Regulations

Standards/regulations	EN 50178
	IEC 62103
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Insulation	Basic insulation
Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	DIN VDE 0109-11, draft
	DIN EN 50178/DIN VDE 0160 (in relevant parts)

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 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196

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Classifications

ETIM

ETIM 5.0	EC001437
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UNSPSC

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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

Drawings

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Circuit diagram

