Power Relay T9A

- **1 pole 30 A, 1 NO or 1 CO contact**
- **High breaking capacity 7200 VA**
- **PCB- and PCB/quick connect terminals**
- **Chassis mount version with quick connect terminals**
- **UL-class F as standard**
- **Ambient temperature 85°C**

F0156-B

F0179-B

Applications

HVAC, power supplies, domestic apppliances, measurement & control

Approvals

E22575, LR15734

Technical data of approved types on request

Contact data

Contact configuration	1 NO contact	1 CO contact
Contact set	single contact	
Type of interruption	micro disconnection	
Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current NO / NC contact	30 A	20 / 10 A
Contact material	AgCdO, AgSnOInO	
Minimum contact load	≥ 1A, 5VDC / 12 VAC	
Operate- / release time including bounce time	max. 15 / 15ms	

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
UL 508				
T9A AgCdO	NO	30 A, 240 VAC, general purpose	85°C	$100x10^3$
T9A AgCdO	NO	15 A 240 VAC, resistive	105°C	$100x10^3$
T9A AgCdO	CO	10 A 240 VAC, general purpose	80°C	$100x10^3$
T9A AgCdO	CO	30 A / 20 A 240 VAC, resistive	80°C	$6x10^3$
T9A AgCdO	CO	20 A / 10 A 28 VDC, resistive	85°C	$100x10^3$
T9A AgSnOInO	NO	30 A, 240 VAC, general purpose	85°C	$100x10^3$

Coil data

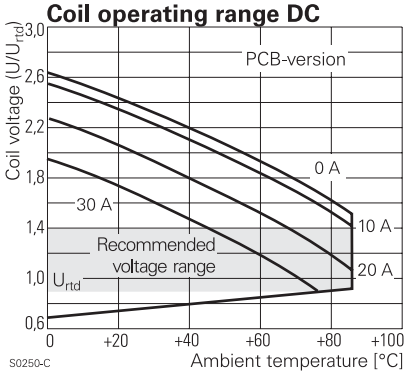
Rated coil voltage range DC coil	5...48 VDC
For AC coil version please refer to T9C datasheet	

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω	Rated coil power mW
6	6	4.5	0.6	36±10%	1000
12	12	9.0	1.2	144±10%	1000
24	24	18.0	2.4	576±10%	1000
48	48	36.0	4.8	2304±10%	1000

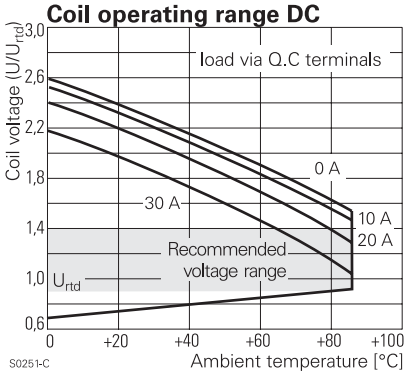
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Coil operating range DC



S0250-C

Coil operating range DC



S0251-C

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Specifications subject to change.

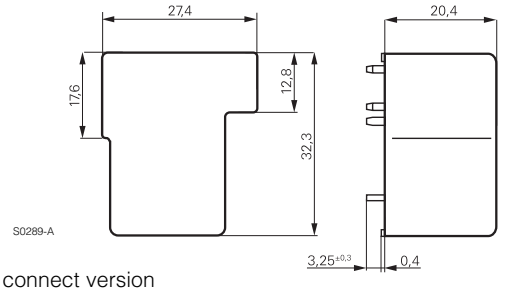
Power Relay T9A (Continued)

Insulation	
Insulation resistance coil-contact circuit	> 10^9 Ohms
Dielectric strength coil-contact circuit	2500 V_{rms}
open contact circuit	1500 V_{rms}
Clearance / creepage coil-contact circuit	≥ 2.5 / 4 mm; ≥3.1 / 6.3 mm (UL508)
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	basic
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 / 400 V
Overvoltage category	II

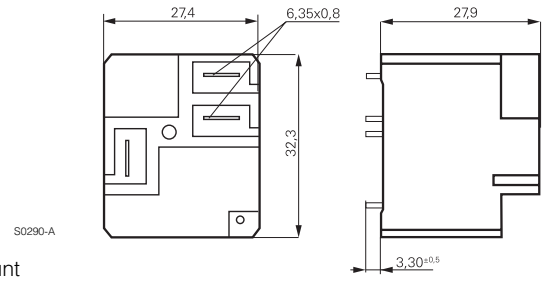
Other data	
Mechanical endurance	typ. 10x10^6 cycles
Material	
RoHS - Directive 2002/95/EC	compliant per product date code 0509
Environment	
Ambient temperature range (see 'Coil operating range')	-55...+85°C
Vibration resistance (function) NO / NC contact	1.65 mm, 10...55 Hz
Shock resistance (function) NO / NC contact	10 g for 11 ms
Shock resistance (destruction)	100 g
Category of protection	RT III - wash tight ('Enclosure S')
	RT I - dust protected ('Enclosure P')
Processing	
Relay weight	26 / 33 g
Packaging unit	250 pcs

Dimensions

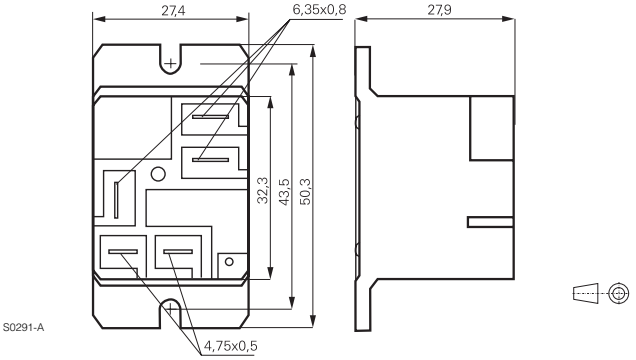
PCB version



PCB-/quick connect version



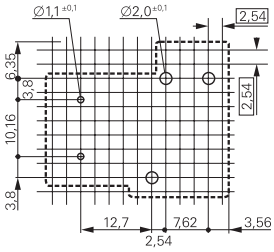
Flange mount

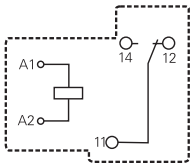


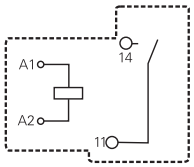
PCB layout / terminal assignment

Bottom view on solder pins

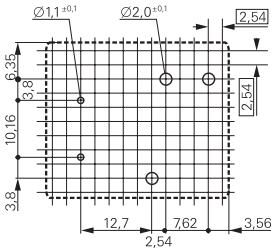
PCB version

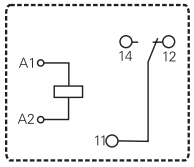


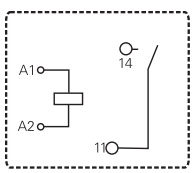




PCB-/quick connect version







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Power Relay T9A (Continued)

Product key	Typical product key	T9A	S	1	D	2	2	-24

Type
T9A Power relay T9A

Enclosure
P dust protected (flange mount)
S wash tight (PCB- or PCB-/quick connect version)

Contact configuration
1 1 NO contact (1 form A) **5** 1 CO contact (1 form C)

Coil version
D DC coil 1 W

Mounting
1 PCB-version
2 PCB-terminals for coil and contacts, quick connect terminals for contacts
5 Flange mount, 4.75 mm quick connect term. for coil, 6.35 mm quick connect term. for contacts

Contact material
2 AgCdO **4** AgSnOInO

Coil
Coil code: please refer to coil versions table

Other types on request

Product key	Enclosure	Mounting	Cont. material	Cont.configuration	Coil	Part number
T9AS1D12-9	wash tight	pcb terminals	AgCdO	1 NO contact	9 VDC	2-1393210-2
T9AS1D12-12					12 VDC	1-1393210-3
T9AS1D12-24					24 VDC	1-1393210-8
T9AS1D12-48					48 VDC	1-1393210-9
T9AS1D22-12		pcb + quick conn.			12 VDC	1-1419104-7
T9AS5D12-24		pcb terminals		1 CO contact	24 VDC	3-1393210-7
T9AS5D22-12		pcb + quick conn.			12 VDC	3-1419104-3
T9AS5D22-24					24 VDC	3-1419104-6

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