

# **Power PCB Relay T9S Solar**

- 1 pole 35A, 1 form A (NO) contact
- Contact gap >1.5mm
- 350mW hold power
- Ambient temperature up to 85°C at 35A
- The appliance is able to meet VDE V 0126-1-1
- Product in accordance to IEC 60335-1
- EN61095: AC7a at 85°C







Approvals
VDE 40030974, UL E58304
Technical data of approved types on request

Contact Data	
Contact arrangement	1 form A (NO)
Contact gap	>1.5mm
Rated voltage	277VAC
Rated current	35A <sup>1)</sup>
Breaking capacity max.	8750 VA
Contact material	AgNi
Initial contact resistance	75mΩ max. at 1A 6VDC
Frequency of operation, with/without load	6/300min <sup>-1</sup>
Operate/release time max., incl bounce tir	me 18/15ms

**Contact ratings** 

Type	Contact	Load	Cycles
IEC 61610			
T9SV1K15-12	A (NO)	35A, 250VAC, cosφ=1, 85°C	30x10 <sup>3</sup>
UL 508			
T9SV1K15-12	A (NO)	35A, 277VAC, resistive, 85°C	30x10 <sup>3</sup>

Mechanical endurance, DC coil 1x10<sup>6</sup> operations

The relay connections and wiring have to be designed with an adequate cross sections to ensure the current flow and heat dissipation.

Coil Data	
Rated coil voltage	12VDC
Coil insulation system according UL	class F

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	W
12	12 <sup>2)</sup>	9.6	0.8	64+10%	2.25 /
					min. 0.35
					l I -I

<sup>2)</sup> After the energization time of 50 ms with 12 VDC the coil requires a reduction of the coil voltage to 4.7...6.0 VDC.

Insulation Data	
Initial dielectric strength	
between open contacts	2500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	3/4mm
Material group of insulation parts	III
Tracking index of relay base	PTI 325

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content			
refer to the Product Compliance Support Center at			
www.te.com/customersupport/rohssupportcente			
-40 to +85°C <sup>1)</sup>			
RTII - flux proof			
10g			
10g			
100g			
PCB-THT			
see note <sup>1)</sup>			
≥10mm			
appr. 30g			
260°C/5s			
box/500 pcs.			

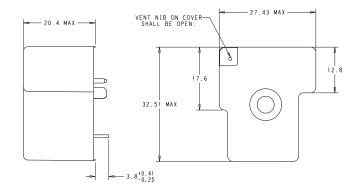
<sup>1)</sup> The relay connections and wiring have to be designed with an adequate cross sections to ensure the current flow and heat dissipation.

All figures are given for coil without pre-energization, at ambient temperature  $+23^{\circ}$ C. Other coil voltages on request.



# Power PCB Relay T9S Solar (Continued)

#### **Dimensions**



### **Notes**

### 1) General tolerance

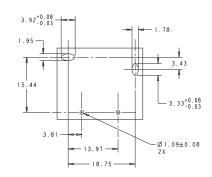
Diagram Dimension	Tolerance
< 1 mm	±0.1
1 ~ 3 mm	±0.2
> 3 mm	±0.3

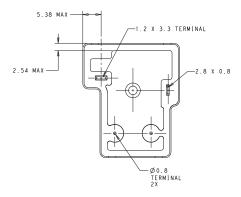
## 2) Dimensions of the pins after tin soldering

- a) +0.4 for the width and the thickness
- **b)** +1.0 for the length

## PCB layout / terminal assignment

Bottom view on solder pins







Product code	Version	Contact arrangement	Contact material	Coil	Part number
T9SV1K15-12	PCB, flux tight	1 form A (NO) contact	AgNi	12VDC	2027395-1