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Miniature Power PCB Relay T7N / T7N-WG

1pole 10A



F0189-B

Features

- 1C/O or 1N/O contact
- Creepage/clearance to VDE 0435 and VDE 0700
- Sensitive 360mW coil available
- Creepage/clearance to VDE 0435
- Version T7N-WG with tracking resistance CTI 325

Applications

Domestic appliances, heating control, building control, measurement&control

T7N:

T7N-WG:

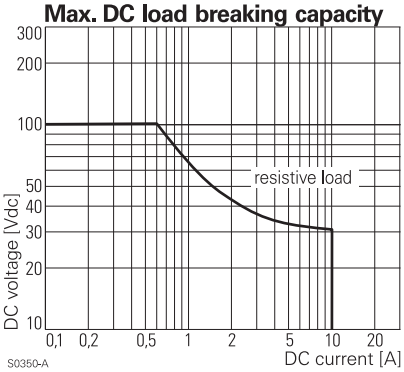
Technical data of approved types on request

Contact data	T7N	T7N-WG
Configuration	1 C/O contact or 1 N/O contact	
Type of contact	single contact	
Rated current N/O contact / N/C contact	10 / 5 A	
Continuous thermal load	10 A	
Rated voltage / max.breaking voltage AC	250 Vac / 250 Vac	
Maximum breaking capacity AC	2500 VA	
Make current (max. 4 s at duty cycle 10%)	35 A	
Contact material	AgCdO, $AgSnO_2$	AgCdO

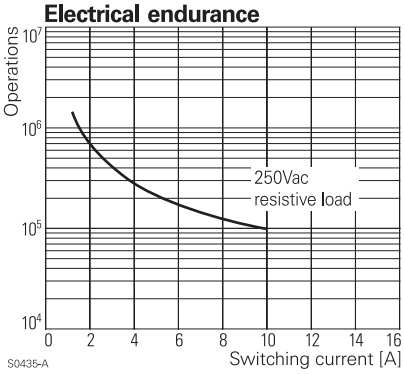
Contact ratings

Type	Load	Operations
AgCdO	10 A, 240 Vac	$100x10^3$
AgCdO	5 A, 240 Vac, resistive	$2x10^5$
AgCdO	2 A, 120 Vac, cosφ=0.5, 60 °C	$1.4x10^6$

Max. DC load breaking capacity



Electrical endurance



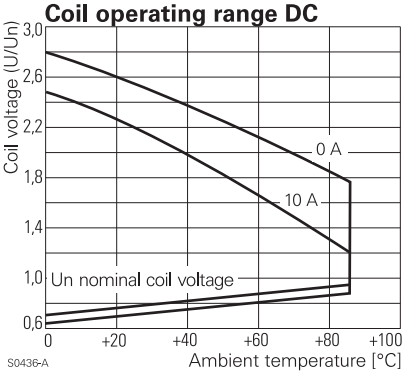
Coil data	T7N standard	T7N-WG	T7N-WG sensitive
Nominal voltage	6...48 Vdc	6...36 Vdc	6...36 Vdc
Nominal coil power	360 mW	450 mW	360 mW
Operate power	176 mW	253 mW	176 mW
Operate category	1 / c	2 / b	2 / b
Operate voltage max.	70 % U_{nom}	70 % U_{nom}	70 % U_{nom}
Non-release voltage	50 % U_{nom}	50 % U_{nom}	50 % U_{nom}
Release voltage min.	10 % U_{nom}	10 % U_{nom}	10 % U_{nom}

Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
version T7N-WG						
12	12	8.4	1.2	25.0	320±10%	37.5
24	24	16.8	2.4	50.0	1280±10%	18.8
36	36	25.2	3.6	73.0	2880±10%	12.5
version T7N standard and T7N-WG sensitive						
06	6	4.2	0.6	12.5	100±10%	60.0
12	12	8.4	1.2	25.0	400±10%	30.0
24	24	16.8	2.4	50.0	1600±10%	15.0
36	36	25.2	3.6	73.0	3600±10%	10.0
48	48	33.6	4.8	100.0	6400±10%	7.0

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Coil operating range DC



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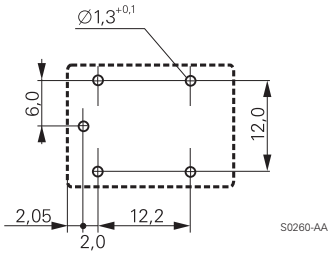
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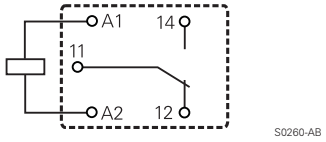
Insulation		T7N	T7N-WG
Dielectric strength	coil-contacts	2000 V_{rms}	
	open contact circuit	1000 V_{rms}	
Surge voltage resistance coil-contacts		4000 V_{rms} (1.2 / 50µs)	
Clearance / creepage		2 / 3 mm	3 / 4 mm
Insulation to IEC 60664			
Voltage rating		250 V	
Pollution degree		3	
Overvoltage category		III	
Insulation to VDE 0110b (2/79)			
Insulation category / reference voltage		C / 250	
Insulation resistance		100x10^6 Ω	
Tracking resistance of relay base		CTI 225	CTI 325

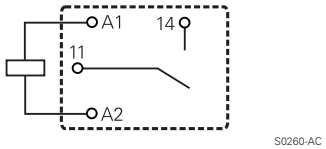
Other data	
Flammability class according to UL 94	V-0
Ambient temperature	-40...+85 °C (105 °C)
Mechanical life	10x10^6 operations
Max. switching rate at rated- / minimum load	30 min^{-1} / 300 min^{-1}
Operate- / release time	10 / 5 ms
Bounce time N/O contact / N/C contact	0.6 / 17 ms
Vibration resistance	>10 g
Shock resistance (function)	>10 g
Shock resistance (destruction)	>100 g
Category of protection (IEC 61810)	RT III - wash tight
Relay weight	11 g
Packaging unit	500 pcs.

PCB layout / terminal assignment

View on solder pins
Dimensions in mm

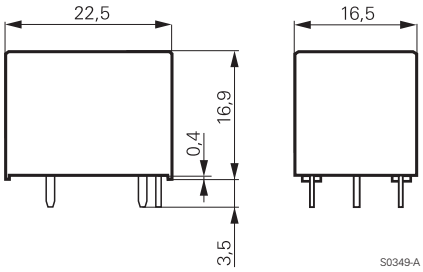






Dimensions

Dimensions in mm



Product key

T	7	N	S						

Type

Version
- **S** wash tight

Contacts
- **1** 1 N/O contact
- **5** 1 C/O contact

Coil version
- **H** DC coil 450mW
- **D** DC coil 360mW

Contact material
- **1** AgCdO
- **4** $AgSnO_2$ (T7N standard version only)

Coil
- coil code: please refer to coil versions table

Version
- **Blank** T7N standard version
- **WG-A** version for domestic appliances

Other types on request

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Product key	Version	Cont-material	Cont.configuration	Coil	Part number
T7N S1D1-06	wash tight	AgCdO	1 N/O contact	6 Vdc	0-1393186-3
T7N S1D1-12	CTI 225			12 Vdc	5-1440006-4
T7N S1D1-24				24 Vdc	5-1440006-6
T7N S1D1-48				48 Vdc	5-1440006-8
T7N S1D4-06		AgSnO		6 Vdc	6-1440005-2
T7N S1D4-12				12 Vdc	7-1440006-2
T7N S1D4-24				24 Vdc	7-1440006-4
T7N S1D4-48				48 Vdc	7-1440006-6
T7N S5D1-06		AgCdO	1 C/O contact	6 Vdc	4-1440006-2
T7N S5D1-12				12 Vdc	4-1440006-4
T7N S5D1-24				24 Vdc	4-1440006-7
T7N S5D1-48				48 Vdc	4-1440006-9
T7N S5D4-06		AgSnO		6 Vdc	6-1440006-1
T7N S5D4-12				12 Vdc	6-1440006-3
T7N S5D4-24				24 Vdc	6-1440006-5
T7N S5D4-48				48 Vdc	6-1440006-7
T7NS5H1-06-WG-A	wash tight	AgCdO		6 Vdc	7-1440006-9
T7NS5H1-12-WG-A	CTI 325			12 Vdc	8-1440006-0
T7NS5H1-24-WG-A				24 Vdc	8-1440006-2
T7NS5H1-36-WG-A				36 Vdc	8-1440006-3
T7NS5H1-48-WG-A				48 Vdc	8-1440006-4

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