



EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

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

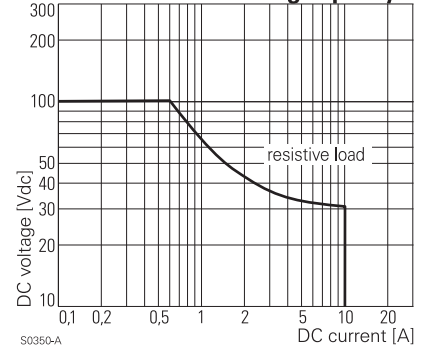
Coil data	T7N standard	T7N-WG	T7N-WG sensitive
Nominal voltage	6...48 Vdc	6...36 Vdc	6...36 Vdc
Nominal coil power	360 mW	450 mW	360 mW
Operate power	176 mW	253 mW	176 mW
Operate category	1 / c	2 / b	2 / b
Operate voltage max.	70 % U _{nom}	70 % U _{nom}	70 % U _{nom}
Non-release voltage	50 % U _{nom}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

Coil versions

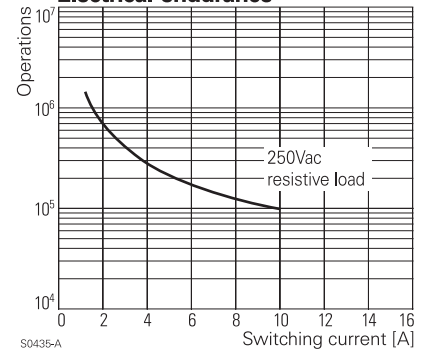
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
version T7N-WG						
12	12	8.4	1.2	25.0	320±10%	37.5
24	24	16.8	2.4	50.0	1280±10%	18.8
36	36	25.2	3.6	73.0	2880±10%	12.5
version T7N standard and T7N-WG sensitive						
06	6	4.2	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

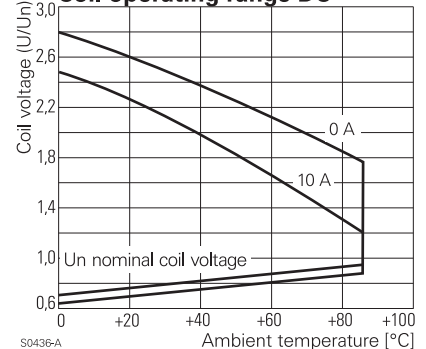
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



Miniature Power PCB Relay T7N / T7N-WG

1pole 10A

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

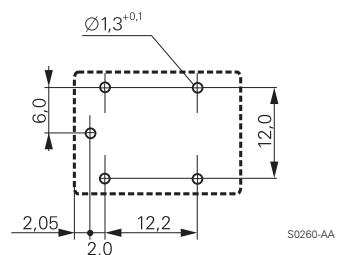
Other data

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.

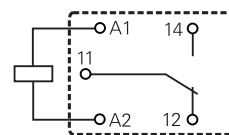
PCB layout / terminal assignment

View on solder pins

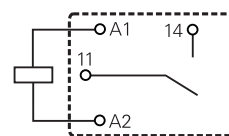
Dimensions in mm



S0260-AA



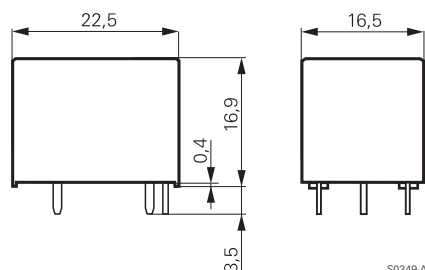
S0260-AB



S0260-AC

Dimensions

Dimensions in mm



S0349-A

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 AgSnO₂ (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

Miniature Power PCB Relay T7N / T7N-WG
1pole 10A

Product key	Version	Cont-material	Cont.configuration	Coil		Part number
T7N S1D1-06	wash tight CTI 225	AgCdO	1 N/O contact	6 Vdc		0-1393186-3
T7N S1D1-12				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
T7NSS5H1-06-WG-A	wash tight CTI 325	AgCdO		6 Vdc		7-1440006-9
T7NSS5H1-12-WG-A				12 Vdc		8-1440006-0
T7NSS5H1-24-WG-A				24 Vdc		8-1440006-2
T7NSS5H1-36-WG-A				36 Vdc		8-1440006-3
T7NSS5H1-48-WG-A				48 Vdc		8-1440006-4