

**Power PCB Relay PCK**

- 1 pole 16A, 1 form A (NO) contact, DC coil
- 5kV coil-contact dielectric voltage
- .187 quick connect

Typical applications  
Micro wave ovens, washing machines



**Approvals**  
VDE 139715, UL E82292, TUV R50139080, CQC 06001017599  
Technical data of approved types on request

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	277VAC
Max. switching voltage	277VAC
Rated current	16A
Limiting continuous current	16A
Limiting making current	16A
Limiting breaking current	16A
Contact material	AgSnO <sub>2</sub>
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	20/10ms
Electrical endurance	16A 277VAC resistive, -30°C to +85°C, 100x10 <sup>3</sup> ops.
Contact ratings	16A 277VAC
Mechanical endurance, DC coil	5x10 <sup>6</sup> operations

Coil Data	
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Max. coil power	130% of rated
Max. coil temperature	155°C
Coil insulation system according UL	Class F

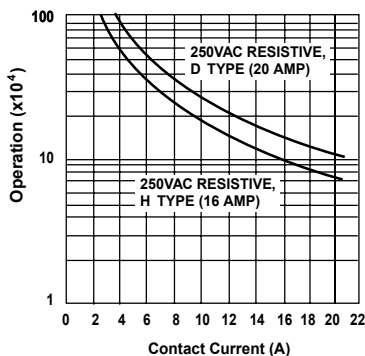
**Coil Data (continued)**

Coil versions, DC coil					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
03	3	2.25	0.15	18	500
05	5	3.75	0.25	50	500
06	6	4.50	0.30	72	500
09	9	6.75	0.45	162	500
12	12	9.00	0.60	288	500
18	18	13.50	0.90	648	500
24	24	18.00	1.20	1150	500
48	48	36.00	2.40	4608	500

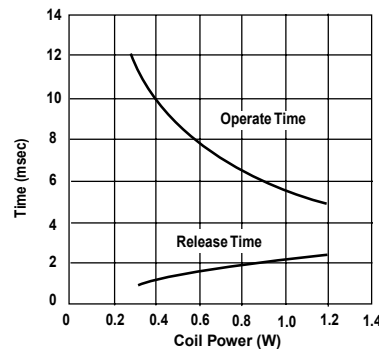
All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation Data	
Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	>9.6/13.7mm

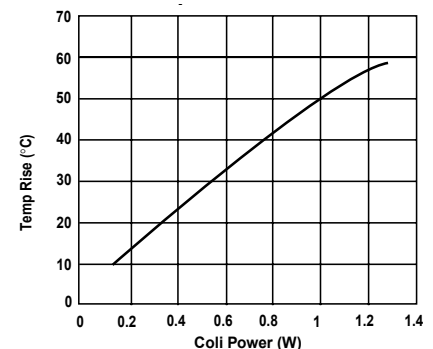
**Electrical endurance**



**Operate time**



**Coil temperature rise**



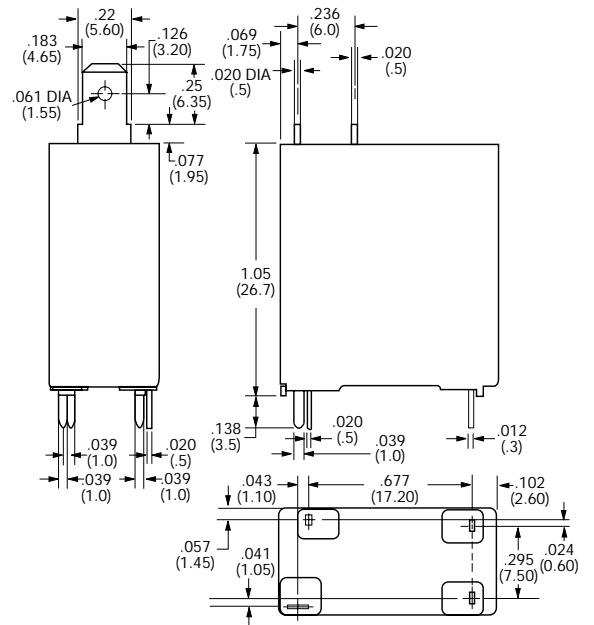
**Power PCB Relay PCK (Continued)**

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

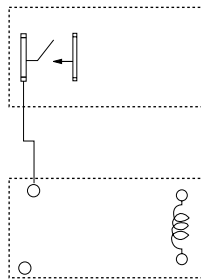
Ambient temperature	-30 to +85°C
Category of environmental protection	IEC 61810
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Terminal type	PCB-THT, quick connect
Weight	13g
Resistance to soldering heat THT	IEC 60068-2-20
Packaging unit	tray/50 pcs., carton box/500 pcs.

**Dimensions**



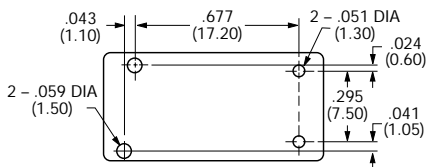
**Terminal assignment**

Bottom view on solder pins



**PCB layout**

Bottom view on solder pins



**Product code structure**

Typical product code **PCK -1 12 D 2 M ,000**

<b>Type</b>	<b>PCK</b> Power PCB Relay PCK
<b>Number of poles</b>	<b>1</b> 1 pole
<b>Coil voltage</b>	Coil code: please refer to coil versions table (e.g. 05=5VDC)
<b>Coil input</b>	<b>D</b> Standard
<b>Contact material</b>	<b>2</b> AgSnO <sub>2</sub>
<b>Contact arrangement</b>	<b>M</b> 1 form A contact (1 NO)
<b>Suffix</b>	<b>,000</b> Standard <b>,100</b> 3 pins without dummy terminal <b>,240</b> 3 pins with dummy terminal, OT 8.5+/-1ms

Other types on request

Product code	Coil	Cont.material	Arrangement	Suffix	Part number
PCK-112D2M,000	12VDC	AgSnO <sub>2</sub>	1 form A (NO)	standard	4-1440007-9
PCK-112D2M,100				3 pins w/o dummy terminal	1461291-1
PCK-112D2M,240				3 pins with dummy terminal, special OT	1721045-1
PCK-118D2M,000	18VDC			standard	3-1419153-7
PCK-124D2M,100	24VDC			3 pins w/o dummy terminal	1461291-2