

## **Miniature Relay PCF**

- Meet UL508 and TUV requirements
- 1 form A contact arrangement
- Quick connect terminal type and PC board type
- Meet 5000V dielectric voltage between coil and contacts
- Meet 10000V surge voltage between coil and contacts (1.2/50µs)

Typical applications Applicances, HVAC, office machines







<b>Approvals</b>
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UL No. E58304/ TUV No. R50139097

Technical data of approved types on request

Contact Data	
Contact arrangement	1 form A, 1 NO
Rated voltage	250VAC, 277VAC, 24VDC
Rated current	25A
Switching power	6370VA
Contact material	AgCdO, AgSnO
Min. recommended contact load	100mA, 5VDC
Initial contact resistance	100mΩ at 1A, 6VDC
Frequency of operation	
with/without load	30/300 ops./min
Operate/release time max.	20/10ms
Electrical endurance	100x10 <sup>3</sup> operations at rated load
Contact ratings	25A, 250VAC resistive
	23A, 277VAC resistive
	20A, 250VAC resistive
	20A, 250VAC inductive, cosφ=0.4
Mechanical endurance	10x10 <sup>6</sup> operations.

Coil Data	
Coil voltage range	6 to 24VDC

Coil versions, DC coil

3011 TOTOLOTIO, 2 3 3011							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	ltage voltage resi		power		
	VDC	VDC	VDC	Ω±10%	mW		
06	6	4.50	0.30	40	900		
09	9	6.75	0.45	90	900		
12	12	9.00	0.60	160	900		
24	24	18.00	1.20	640	900		

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

Insulation Data	
Initial dielectric strength	
between open contacts	1000VAC, 50/60Hz, 1min
between contact and coil	5000VAC, 50/60Hz, 1min
Initial surge withstand voltage	
between contact and coil	8000V (1.2/50µS)
Initial insulation resistance	
between insulated elements	1000MΩ at 500VDC
Clearance/creepage	
between contact and coil	6.7/8mm

## **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

Ambient temperature -30 to 55°C

Category of environmental protection

IEC 61810 RTII-flux proof

Vibration resistance (functional), 10 to 50Hz. 1.5mm double amplitude Vibration resistance (destructive), 10 to 50Hz.1.5mm double amplitude Shock resistance (functional),

98m/s2 half-sine wave of 6ms

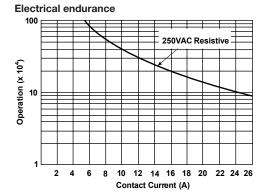
Schock resistance (destructive),

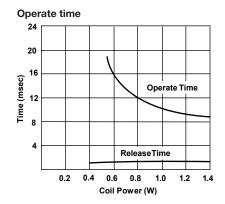
half-sine wave of 11ms, permitted duration 1ms 980m/s2 28g

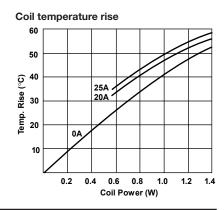
Weight Resistance to soldering heat THT

IEC 60068-2-20 260°C/10s

Packaging/unit tube/20 pcs., box/500 pcs.

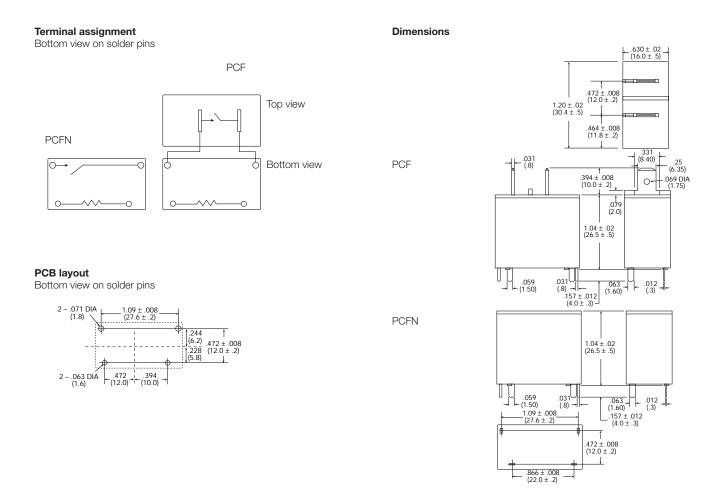


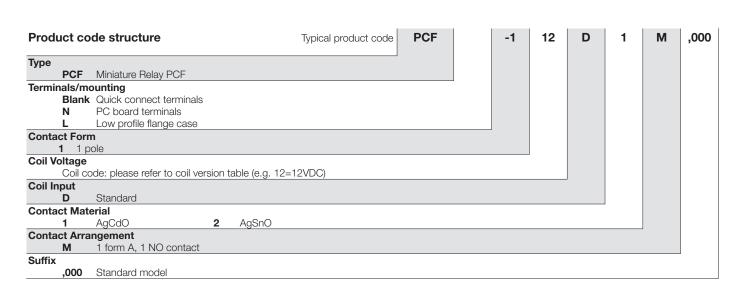






## Miniature Relay PCF (Continued)







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Product code	Terminals/mounting	Coil	Cont. material	Arrangement	Part number
PCF-105D2M,000	Quick connect terminals	5VDC	AgSnO <sub>2</sub>	1 form A (NO)	5-1440002-4
PCF-106D2M,000		6VDC		contact	5-1440002-5
PCF-112D1M,000		12VDC	AgCdO		9-1419129-2
PCF-112D2M,000			AgSnO <sub>2</sub>		3-1419153-4
PCF-124D1M,000		24VDC	AgCdO		9-1419129-5
PCF-124D2M,000			AgSnO <sub>2</sub>		5-1440002-8
PCF-148D1M,000		48VDC	AgCdO		2-1419146-4
PCF-148D2M,000			AgSnO <sub>2</sub>		5-1440002-9
PCFL-112D2M,000	Low profile flange case	12VDC			1649000-3
PCFL-124D2M,000		24VDC			1649000-4
PCFN-109D2M,000	PC board terminals	09VDC			1461193-7
PCFN-118D2M,000		18VDC			1461193-8
PCFN-124D2M,000		24VDC			1461193-9
PCFN-148D2M,000		48VDC			1461193-5