

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





6.7/8mm

Approvals

UL No. E58304/ TUV No. R50139097 Technical data of approved types on request

Contact Data	
Contact arrangen	٦E

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 ³ operations at rated load			
Contact ratings	25A, 250VAC resistive			
	23A, 277VAC resistive			
	20A, 250VAC resistive			
	20A, 250VAC inductive, cosφ=0.4			

Coil Data

Coil voltage range 6 to 24VDC

Coil versions. DC coil

Mechanical endurance

Our relations, De con							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	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 $1000M\Omega$ at 500VDCbetween insulated elements Clearance/creepage

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

between contact and coil

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

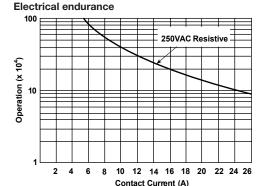
Schock resistance (destructive),

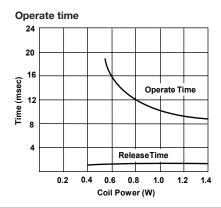
half-sine wave of 11ms, permitted duration 1ms 980m/s2

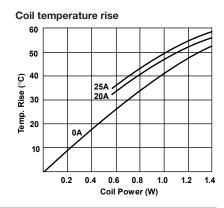
Weight 28g

Resistance to soldering heat THT IEC 60068-2-20

260°C/10s Packaging/unit tube/20 pcs., box/500 pcs.







Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

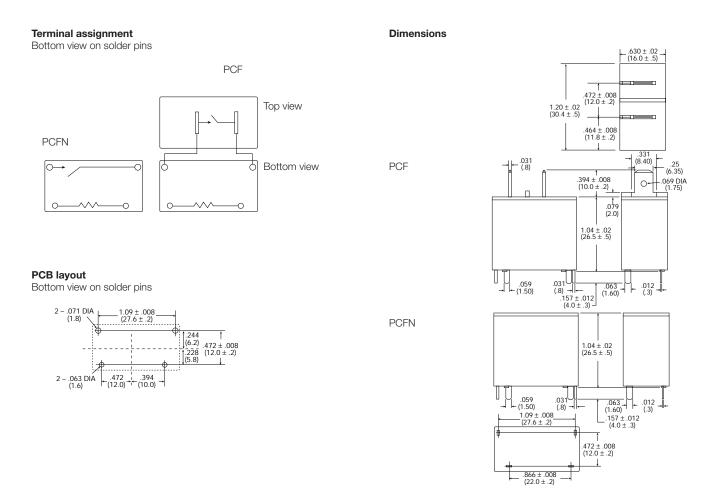
10x10⁶ operations.

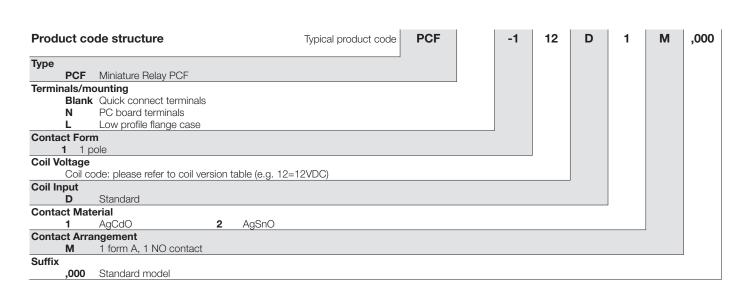
Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



Miniature Relay PCF (Continued)







Miniature Relay PCF (Continued)

Product code	Terminals/mounting	Coil	Cont. material	Arrangement	Part number
PCF-105D2M,000	Quick connect terminals	5VDC	AgSnO ₂	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 ₂		3-1419153-4
PCF-124D1M,000		24VDC	AgCdO		9-1419129-5
PCF-124D2M,000			AgSnO ₂		5-1440002-8
PCF-148D1M,000		48VDC	AgCdO		2-1419146-4
PCF-148D2M,000			AgSnO ₂		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