

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
Appliances, HVAC, office machines



Approvals

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 ³ operations at rated load
Contact ratings	25A, 250VAC resistive 23A, 277VAC resistive 20A, 250VAC resistive 20A, 250VAC inductive, cosφ=0.4
Mechanical endurance	10x10 ⁶ operations.

Coil Data

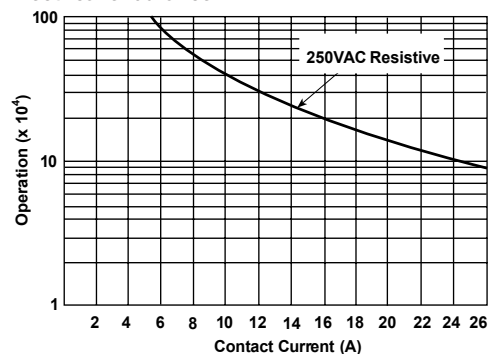
Coil voltage range	6 to 24VDC
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Coil versions, DC coil

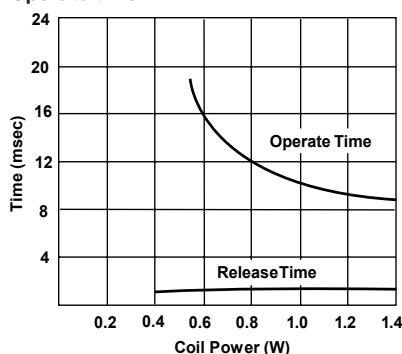
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
06	6	4.50	0.30	40	900
09	9	6.75	0.45	90	900
12	12	9.00	0.60	160	900
24	24	18.00	1.20	640	900

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

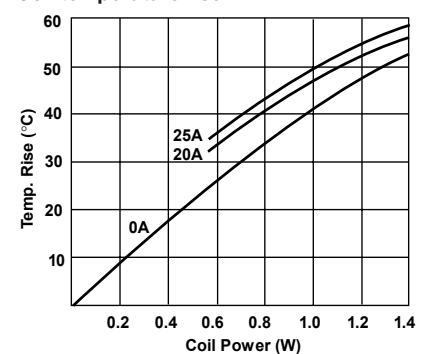
Electrical endurance



Operate time



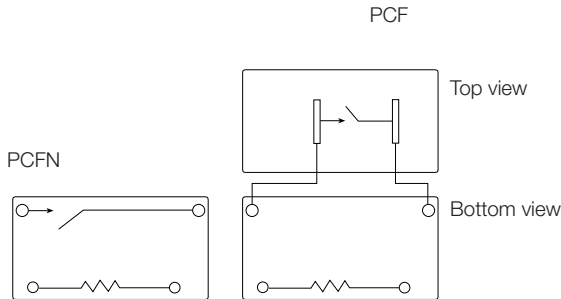
Coil temperature rise



Miniature Relay PCF (Continued)

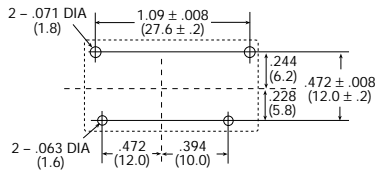
Terminal assignment

Bottom view on solder pins

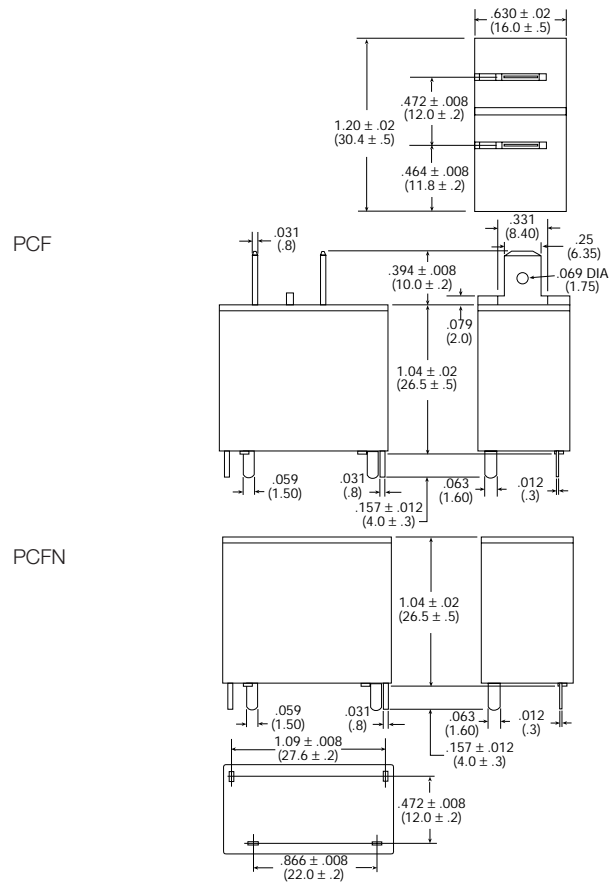


PCB layout

Bottom view on solder pins



Dimensions



Product code structure

Typical product code

PCF

-1

12

D

1

M

,000

Type

PCF Miniature Relay PCF

Terminals/mounting

Blank Quick connect terminals

N PC board terminals

L Low profile flange case

Contact Form

1 1 pole

Coil voltage

Coil code: please refer to coil version table (e.g. 12=12VDC)

Coil Input

D Standard

Contact Material

1 AgCdO 2 AgSnO

Contact Arrangement

M 1 form A, 1 NO contact

Suffix

,000 Standard model

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) contact	5-1440002-4
PCF-106D2M,000		6VDC			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	Low profile flange case	48VDC	AgCdO		2-1419146-4
PCF-148D2M,000			AgSnO ₂		5-1440002-9
PCFL-112D2M,000		12VDC			1649000-3
PCFL-124D2M,000		24VDC			1649000-4
PCFN-109D2M,000		09VDC			1461193-7
PCFN-118D2M,000		18VDC			1461193-8
PCFN-124D2M,000	PC board terminals	24VDC			1461193-9
PCFN-148D2M,000		48VDC			1461193-5

Mouser Electronics

Authorized Distributor

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[PCF-105D2M,000](#)