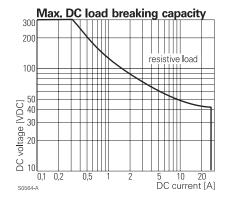


Power PCB Relay PCFN Solar, 1.8 mm contact gap

- 1 pole 26A, 1 form A (NO) contact
- Contact gap >1.8mm
- 200mW hold power
- Ambient temperature up to 75°C at 26A, 85°C at 22A, 90°C at 18A
- Product in accordance to VDE 0126-1-1 and IEC 62109-2

Typical applications
Photovoltaic Inverter, charging stations, ...

Contact Data				
Contact arrangem	ent	1 form A (NO)		
Contact gap		>1.8mm		
Rated voltage		277VAC		
Rated current		26A		
Breaking capacity	max.	7200VA		
Contact material		AgSnO ₂		
Frequency of oper	ration, with/w	vithout load 6/300min ⁻¹		
Operate/release til	me max.	20/10ms		
Bounce time max., form A		3ms		
Contact ratings				
Type	Contact	Load	Cycles	
IEC 61810 / UL 5	808			
PCFN-1H2MS	A (NO)	26A, 277VAC, cosφ=1, 75°C	30x10 ³	
PCFN-1H2MS	A (NO)	22A, 277VAC, cosφ=1, 85°C	30x10 ³	
PCFN-1H2MS	A (NO)	18A, 277VAC, cosφ=1, 90°C	30x10 ³	
IEC 61810				
PCFN-1H2MS	A (NO)	14A, 277VAC, resistive, 85°C	100x10 ³	
Mechanical endura	ance. DC coi	il 1x10 ⁶ operations		







Coil Data		
Rated coil voltage	12/24 VDC	
Coil insulation system according UL	Class F	

Coil	versions,	DC coil
Coil	Do	tod

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	W
12	12	8,4	1,2	96	1.5 ¹⁾
24	24	16,8	2,4	384	$1.5^{2)}$

- Ambient temperature > 23°C requires reduction of coil voltage to 4.4 to <6V after 100ms. Hold voltage >=4.4V at ambient temperature ≤90°C.
- 2) Ambient temperature > 23°C requires reduction of coil voltage to 8.8 to <12V after 100ms. Hold voltage >=8.8V at ambient temperature ≤90°C.

All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C. Other coil voltages on request.

Insulation Data		
Initial dielectric strength		
between open contacts	2500V _{ms}	
between contact and coil	4000V _{rms}	
Clearance/creepage		
between contact and coil	6.1mm	
Material group of insulation parts	III	
Tracking index of relay base	PTI 175	

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 temperature³

-25 to +75°C at 26A

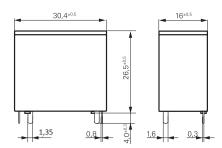
-25 to +85°C at 22A
-25 to +90°C at 18A
RTII - flux proof
10g
10g
100g
PCB-THT
≥10mm
28g
260°C/10s
tube/20 pcs., box/500 pcs.

³⁾ Ambient temperature > 23°C requires reduction of coil voltage, see index¹¹ and ²¹ above.



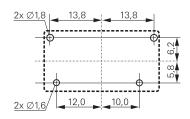
Power PCB Relay PCFN Solar, 1.8 mm contact gap (Continued)

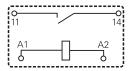
Dimensions



PCB layout / terminal assignment

Bottom view on solder pins





NOTE: it is recommended to connect the grid (phase or neutral line) to pin 11 of the PCFN Solar.

Product code	Version	Contact arrangement	Contact material	Coil	Part number
PCFN-112H2MS	PCB, flux tight	1 form A (NO) contact	AgSnO ₂	12VDC	2071169-1
PCFN-124H2MS	PCB, flux tight	1 form A (NO) contact	AgSnO	24VDC	2071169-2