

**Power PCB Relay PCFN Solar**

- 1 pole 26A, 1 form A (NO) contact
- Contact gap >1.5mm
- 200mW hold power
- Ambient temperature up to 75°C, 85°C at 22A
- The appliance is able to meet VDE V 0126-1-1

Typical applications  
Photovoltaic Inverter



F\_PCFN\_B



**Approvals**

VDE REG.-Nr.A951, cULus E58304  
Technical data of approved types on request

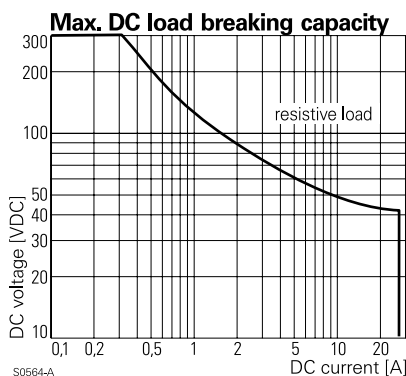
**Contact Data**

Contact arrangement	1 form A (NO)
Contact gap	>1.5mm
Rated voltage	277VAC
Rated current	26A
Breaking capacity max.	7200VA
Contact material	AgSnO <sub>2</sub>
Frequency of operation, with/without load	6/300min <sup>-1</sup>
Operate/release time max.	20/10ms
Bounce time max., form A	3ms

**Contact ratings**

Type	Contact	Load	Cycles
<b>IEC 61810</b>			
PCFN-1..H2MG	A (NO)	26A, 277VAC, cosφ=1, 75°C	30x10 <sup>3</sup>
PCFN-1..H2MG	A (NO)	22A, 250VAC, cosφ=1, 85°C	30x10 <sup>3</sup>
PCFN-1..H2MG	A (NO)	14A, 250VAC, cosφ=1, 85°C	100x10 <sup>3</sup>
<b>UL 508</b>			
PCFN-1..H2MG	A (NO)	26A, 277VAC, resistive, 75°C	30x10 <sup>3</sup>
PCFN-1..H2MG	A (NO)	22A, 277VAC, resistive, 85°C	30x10 <sup>3</sup>

Mechanical endurance, DC coil 1x10<sup>6</sup> operations



**Coil Data**

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

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated power mW
12	12	7,8	1,2	96	1,5 <sup>1)</sup>

1) Ambient temperature > 23°C requires reduction of coil voltage to 4.4 to <6V after 100ms.  
Hold voltage >=4.4V at ambient temperature ≤85°C.  
All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.

**Insulation Data**

Initial dielectric strength	
between open contacts	2500V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	6.1/6.1mm
Material group of insulation parts	III
Tracking index of relay base	PTI 175

**Other Data**

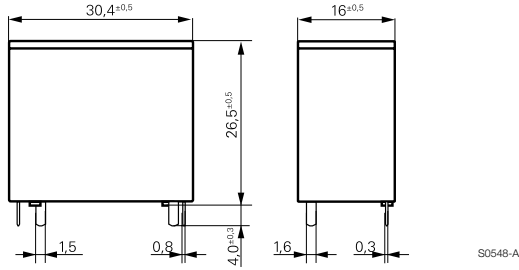
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.tycoelectronics.com/customer-support/rohssupportcenter](http://www.tycoelectronics.com/customer-support/rohssupportcenter)

Ambient temperature	-25 to +75°C <sup>1)</sup>
	-25 to +85°C at 22A
Category of environmental protection	RTII - flux proof
IEC 61810	
Vibration resistance (functional)	10g
Vibration resistance (destructive)	10g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Mounting distance	≥10mm
Weight	28g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging unit	tube/20 pcs., box/500 pcs.

1) Ambient temperature > 23°C requires reduction of coil voltage to 4.4 to <6V after 100ms.

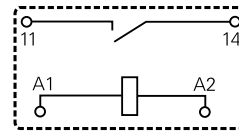
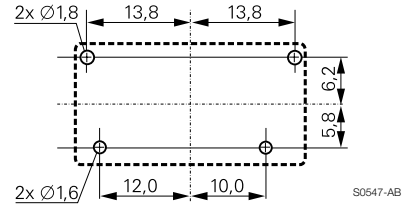
**Power PCB Relay PCFN Solar** (Continued)

**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-112H2MG	PCB, flux tight	1 form A (NO) contact	AgSnO <sub>2</sub>	12VDC	1721929-1