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

Approvals

VDE Cert. No. 40012548, UL E58304
Technical data of approved types on request.

Contact Data

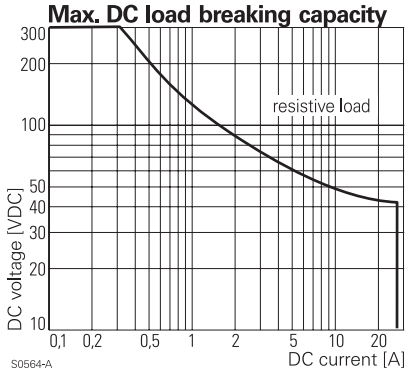
Contact arrangement	1 form A (NO)
Contact gap	>1.5mm
Rated voltage	277VAC
Rated current	26A
Breaking capacity max.	7200VA
Contact material	$AgSnO_2$
Frequency of operation, with/without load	$6/300min^{-1}$
Operate/release time max.	20/10ms
Bounce time max., form A	3ms

Contact ratings

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

Mechanical endurance, DC coil	$1x10^6$ operations

Max. DC load breaking capacity



Coil Data

Rated coil voltage	12 to 24VDC
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 coil power mW
12	12	7.8	1.2	96	1.5[1)]
24	24	15.6	2.4	384	1.5[1)]

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	$2500V_{rms}$
between contact and coil	$4000V_{rms}$
Clearance/creepage	
between contact and coil	6.1/6.1 mm
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 temperature	-25 to +75°C[1)] -25 to +85°C at 22A
Category of environmental protection	
IEC 61810	RTII - flux proof
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.

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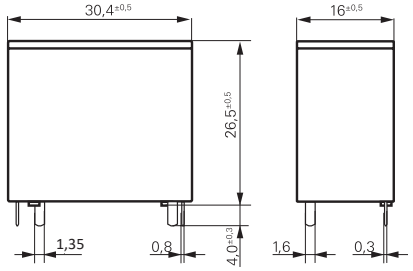
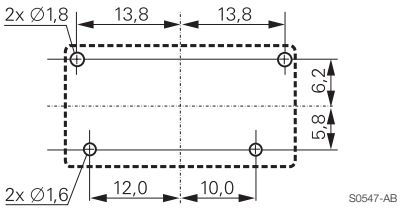
Power PCB Relay PCFN Solar (Continued)

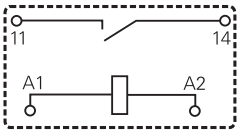
Dimensions



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	$AgSnO_2$	12VDC	1721929-1
PCFN-124H2MG	PCB, flux tight	1 form A (NO) contact	$AgSnO_2$	24VDC	1721929-2