

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



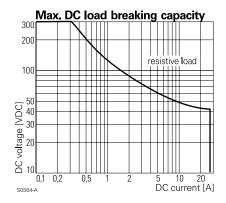
Approvals	
VDE REGNr.A951, cULus E58304	
Technical data of approved types on request	

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 ₂	_
Frequency of operation, with/without load	6/300min ⁻¹	_
Operate/release time max.	20/10ms	
Bounce time max., form A	3ms	_

Contact ratings

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

Mechanical endurance. DC coil	1x10 ⁶ operations



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

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
12	12	7.8	1.2	96	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 \le 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	6.1/6.1mm	
Material group of insulation parts	III	
Tracking index of relay base	PTI 175	
Tracking index of relay base	FII 173	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.com/customersupport/rohssupportcenter

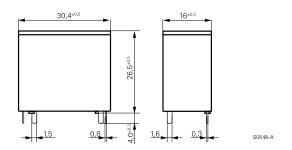
Ambient temperature	-25 to +75°C ¹⁾		
	-25 to +85°C at 22A		
Category of environmental protection			
IEC 61810	RTII - flux proof		
Vibration resistance (functional)	10g		
Vibration resistance (destructive)	10g		
Shock resistance (destructive)	100g		
Terminal type	PCB-THT		
Mounting distance	≥10mm		
Weight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

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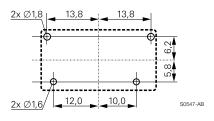
Power PCB Relay PCFN Solar (Continued)

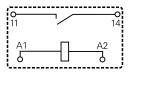
Dimensions



PCB layout / terminal assignment

Bottom view on solder pins





S0547-AA

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	AaSnO ₂	12VDC	1721929-1