

Power PCB Relay PCFN Solar

- 1 pole, 26 A, 1 NO Contact
- Contact gap > 1.5 mm
- 200 mW hold power
- Ambient temperature up to 75°C, 85°C at 22 A
- The appliance is able to meet VDE V0126-1-1

Applications

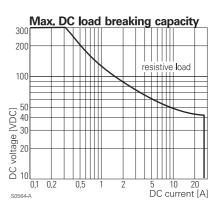
Photovoltaic inverter



F_PCFN_B

Approvals Technical data of approved types on request Approvals A

Contact configuration	1 NO
Contact set	single contact
Contact gap	> 1.5 mm
Rated voltage	277 VAC
Rated current	26 A
Maximum breaking capacity AC	7200 VA
Contact material	AgSnO ₂
Rated frequency of operation with / without load	6 / 300 min ⁻¹
Operate- / release time	max 20 / 10 ms
Bounce time	max 3 ms



Contact ratings

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Туре	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
PCFN-1H2MG	NO	26 A, 277 VAC, cosφ=1	75°C	30x10 ³
PCFN-1H2MG	NO	22 A, 250 VAC, cosφ=1	85°C	30x10 ³
PCFN-1H2MG	NO	14 A, 250 VAC, cosφ=1	85°C	100x10 ³
UL 508				
PCFN-1H2MG	NO	26 A, 277 VAC, resistive	75°C	30x10 ³
PCFN-1H2MG	NO	22 A, 277 VAC, resistive	85°C	30x10 ³

Coil data		
Rated coil voltage	12 VDC	
Coil insulation system according UL 1446	class F	

Coil version, DC-coil

	,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ohm	W
12	12	7.8	1.2	96±10%	1.5 ¹⁾
All figures are given for coil without preenergization, at ambient temperature +23°C					
Hold voltage \geq 4.4 V at ambient temperature \leq 85°C					
¹⁾ Ambient temperature > 23°C requires reduction of coil voltage to 4.4< 6 V after					
100ms				-	

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Specifications subject to change.

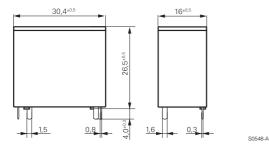


Power PCB Relay PCFN Solar (Continued)

Insulation		PCB la
Dielectric strength coil-contact circuit	4000 V _{rms}	Bottom
open contact circuit	2500 V _{rms}	
Clearance / creepage coil-contact circuit	6.1 / 6.1 mm	
Material group of insulation parts		2x Ø1
Tracking index of relay base	PTI 175	
Insulation to IEC 61810-1		-
Type of insulation coil-contact circuit	basic	
open contact circuit	full disconnection 1.5 mm	-
Rated insulation voltage	250 V	
Pollution degree	2	-
Rated voltage system	230 / 400 V	24 01
Overvoltage category		<u>2x Ø1</u>
Other data	1 106	
Mechanical endurance	1x10 ⁶ cycles	
Material	e e construit de la construit d	
RoHS - Directive 2002/95/EC	compliant	
	05 7500	
Ambient temperature range ¹⁾	-25+75°C	
	-25+85°C at 22 A	
Vibration resistance (function)	10 g	
Shock resistance (function)	10 g	
Shock resistance (destruction)	100 g	
Category of protection	RTII - flux proof	
Processing		
Mounting	pcb	
Mounting position	any	
Mounting distance	≥ 10 mm	
Resistance to soldering heat	260°C/5s	
Relay weight	28 g	
Packaging unit	20 / 500	

Packaging unit 20 / 500 ¹⁰ Ambient temperature > 23°C requires reduction of coil voltage to 4.4...< 6 V after 100 ms

Dimensions



Product key	Version	Contact configuration	Contact material	Coil	Part number
PCFN-112H2MG	PCB, flux tight	1 NO contact	AgSnO ₂	12 VDC	1721929-1

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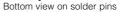
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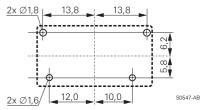
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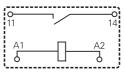
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ayout / terminal assignment







S0547-AA