

F_PCFN_B

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 REG.-Nr.A951, 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/with	nout load	6/300min ⁻¹		
Operate/release time max.		20/10ms		
Bounce time max., form A		3ms		
Contact ratings				
Type Contact	Load		Cycles	
IEC 61810				

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

1x10⁶ operations



Coil Data

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

Coil versions, DC coil

	Sions, DO 00				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
12	12	7,8	1,2	96	1.5 ¹⁾
1) Ambient	temperature > 2	3°C requires red	uction of coil vol	tage to 4.4 to <6'	√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

insulation bata	
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	
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.

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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Power PCB Relay PCFN Solar (Continued)

Dimensions





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	AgSnO ₂	12VDC	1721929-1

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