

SAFETEC C(R) PV



- Category IEC / EN / VDE: Class II / Type 2 / C
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE, (-) → PE, (+) → (-) Protective elements: MOV and GDT
- Surge discharge rating: $I_{\max}$ up to 40kA
- Safety: Ground fault withstand
- Housing: Modular design
- Complies with: EN 50539-11



Technical data

Type		75	SAFETEC C(R) xxxx PV 300	600	1000
Electrical characteristics					
Max. continuous operating voltage (DC)	$U_{CPV}^{*}(+) \downarrow PE/(-) \downarrow PE$	75V	300V	600V	1000V
Nominal discharge current (8/20)	$I_n (+) \downarrow PE/(-) \downarrow PE$	10kA	20kA	20kA	12.5kA
Max. discharge current (8/20)	$I_{\max} (+) \downarrow PE/(-) \downarrow PE$	20kA	40kA	40kA	25kA
Short-circuit withstand	I_{SCP}			1000A	
Protection level	$U_p (+) \downarrow PE/(-) \downarrow PE$	< 0.8kV	< 1.5kV	< 2.3kV	< 2.8kV
Residual voltage at 5kA (8/20)	U_{res}	< 0.6kV	< 1.1kV	< 1.6kV	< 2.2kV
Follow current	I_{fi}			NO	
Response time	t_A			< 25ns	
Thermal protection				YES	
Ground fault withstand (DC)		120V	450V	900V	1500V
Mechanical characteristics					
Temperature range			- 40°C+ 80°C		
Terminal screw torque			max. 3.0Nm		
Terminal cross section			35mm ² (solid) / 25mm ² (stranded)		
Mounting			35mm DIN rail, EN 60715		
Degree of protection			IP 20		
Housing material			Thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation			red flag		
Remote contacts (RC)			YES		
Contact ratings			AC: 250V/0.5A; 125V/3A		
Terminal cross section			max. 1.5mm ²		
Remote terminal torque			0.25Nm		

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC} \rightarrow$ open circuit voltage under standard test condition

Ordering information

	75	300	600	1000
Ordering code SAFETEC C xxxx PV	516.040	516.042	516.044	516.046
Ordering code SAFETEC CR xxxx PV (with remote contacts)	516.041	516.043	516.045	516.047
Ordering code Module SAFETEC C(R) xxxx PV	516.050	516.051	516.052	516.053