

1500 VDC expansion of the S800PV high performance miniature circuit breaker family

The new S804PV-SP high performance string protection MCB and S804PV-SD switch disconnecter for DC side isolation of PV systems are designed for PV installations of 1500 VDC.

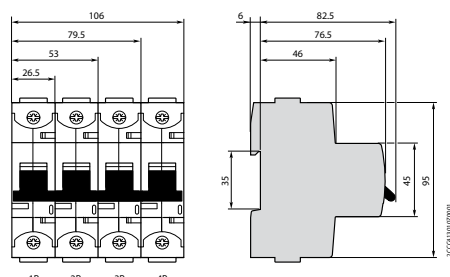


Ordering details

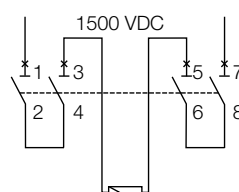
I_{cu} [kA]	Rated current [A]	Order details Type Code	Order code	GTIN EAN	Weight [kg]	Pack. unit
5	5	S804PV-SP5	2CCF019586R0001	7612271452124	0.98	1
5	6	S804PV-SP6	2CCF019647R0001	7612271472191	0.98	1
5	8	S804PV-SP8	2CCF019648R0001	7612271472214	0.98	1
5	10	S804PV-SP10	2CCF019622R0001	7612271471699	0.98	1
5	13	S804PV-SP13	2CCF019623R0001	7612271471712	0.98	1
5	16	S804PV-SP16	2CCF019624R0001	7612271471736	0.98	1
5	20	S804PV-SP20	2CCF019625R0001	7612271471750	0.98	1
5	25	S804PV-SP25	2CCF019626R0001	7612271471774	0.98	1
5	32	S804PV-SP32	2CCF019627R0001	7612271471798	0.98	1
5	40	S804PV-SP40	2CCF019628R0001	7612271471811	0.98	1
5	50	S804PV-SP50	2CCF019629R0001	7612271471835	0.98	1
5	63	S804PV-SP63	2CCF019630R0001	7612271471859	0.98	1
5	80	S804PV-SP80	2CCF019631R0001	7612271471873	0.98	1
5	100	S804PV-SP100	2CCF019632R0001	7612271471897	0.98	1
5	125	S804PV-SP125	2CCF019633R0001	7612271471910	0.98	1

I_{cw} [kA]	Rated current [A]	Order details Type Code	Order code	GTIN EAN	Weight [kg]	Pack. unit
1.5	32	S804PV-SD32	2CCF019640R0001	7612271472054	0.86	1
1.5	63	S804PV-SD63	2CCF019641R0001	7612271472078	0.86	1
1.5	125	S804PV-SD125	2CCF019642R0001	7612271472092	0.86	1

Dimensions of S804PV-SP and S804PV-SD



Wiring diagram



Technical Data

S804PV-SP

Standards	IEC 60947-2 and Annex P
Number of poles	4
Rated current [A]	5 ... 125
Rated insulation voltage U_i acc. IEC/EN 60664-1	DC 1500
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	8 kV
Overvoltage category	III
Pollution degree	2
Suitability for isolation	yes
Rated operational voltage [VDC]	1500
Rated ultimate short-circuit capacity $I_{cu} = I_{cs}$ [kA]	5...16 A, acc. IEC 60947-2 Annex P , $I_{cu} = 5$ kA 20...125 A, acc. IEC 60947-2 , $I_{cu} = 5$ kA 20...125 A, acc. IEC 60947-2 Annex P , $I_{cu} = 3$ kA
Reference temperature for tripping characteristic [°C]	40
Electrical and mechanical endurance	acc. to Annex P: 5...16 A: 300 electrical cycles 9700 mechanical cycles acc. to IEC 60947-2 (general part): 20 A...100 A: 1500 electrical cycles 8500 mechanical cycles 125 A: 1000 electrical cycles 9000 mechanical cycles
Connections Cu	1... 50 mm ²
Tightening torque [Nm]	3.5 (31 in. lb.)
Protection category	IP40 (actuating end only)
Mounting position	any
Ambient temperature [°C]	-25 ... +70
Supply	any

Note:

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S804PV-SD

Standards	IEC 60947-3 and Annex D
Number of poles	4
Rated current [A]	32, 63, 125
Rated insulation voltage U_i acc. IEC/EN 60664-1	DC 1500
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	8 kV
Overvoltage category	III
Pollution degree	2
Suitability for isolation	yes
Rated operational voltage [VDC]	1500
Rated short-term withstand current I_{sc} [kA]	1.5
Rated short-circuit making capacity I_{cm} [kA]	0.5
utilisation category	DC-21A, DC-PV2
Reference temperature for tripping characteristic [°C]	40
Electrical and mechanical endurance	acc. to IEC 60947-3: 32, 63 A: 1500 electrical cycles 8500 mechanical cycles 125 A: 1000 electrical cycles 7000 mechanical cycles
Connections Cu	1... 50 mm ²
Tightening torque [Nm]	3.5 (31 in. lb.)
Protection category	IP40 (actuating end only)
Mounting position	any
Ambient temperature [°C]	-25 ... +70
Supply	any

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