

High performance MCBs

S800PV-SP series technical features

		S800PV-SP
General Data		
Tripping characteristics		SP
Standards		IEC / EN 60947-2 and Annex P
Poles		2 ... 4
Rated frequency I_e	A	5 ... 125
Rated frequency f	Hz	-
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	kV	8
Overtoltage category		III*
Pollution degree		2
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	2-pole DC 800V: 5 ... 125 A 3-pole DC 1200V: 5 ... 125 A 4-pole DC 1500V: 5 ... 125 A
Min. operating voltage	V	-
Rated ultimate short-circuit capacity I_{cu}	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
Rated service short-circuit capacity I_{cs}	kA	$I_{cu} = I_{cs}$
Reference temperature for tripping characteristics	$^{\circ}$ C	40 $^{\circ}$ C
Electrical and Mechanical Endurance	ops.	acc. to Annex P: 5 ... 16 A: 300 electrical/9700 mechanical acc. to IEC 60947-2 (general part): 20 ... 100 A: 1500 electrical/8500 mechanical 125 A: 1000 electrical/9000 mechanical
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. To NF F 126-101, NF F 16-102		-
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-27		5g / 30ms, Test Ea
Shock resistance acc. To IEC/EN 61373		5g / 30ms, Cat 1 / Class B
Vibration resistance acc. to IEC/EN 60068-2-6		5 - 13.2Hz /1 mm 13.2 - 100Hz / 0.7g with load 80% $\times I_e$, Test Fc
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	$^{\circ}$ C/RH	2 cycles: 12h 55 $^{\circ}$ C @98% rh; 12h 25 $^{\circ}$ C @93% rh
Environmental condition (dry heat) acc. to IEC/EN 60068-2-2	$^{\circ}$ C/RH	16 hours 70 $^{\circ}$ C
Environmental condition (low temp) acc. to IEC/EN 60068-2-1	$^{\circ}$ C/RH	16 hours -40 $^{\circ}$ C
Ambient temperature	$^{\circ}$ C	-25 ... +60
Storage temperature	$^{\circ}$ C	-40 ... +70
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) - C_u only	mm ²	1 ... 50 flexible 1 ... 70 solid (rigid or stranded)
Tightening torque	Nm in-lbs.	3.5 31
Screwdriver		POZI 2
Mounting		any
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	95 x 82.5 x 27
Pole weight	g	240

*The pollution degree of the product, as defined in standard IEC 60947-1, is related to its micro environment, to which equipment is exposed. It may be different from that of the macro-environment. According to where the equipment is located, the pollution degree of the macro environment can be considered up to category IV if protection is offered by means of such as an adequate enclosure or internal heating to prevent absorption or condensation of moisture.