

# Solid State Relays panel or DIN rail mounted



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- DC & AC input control
- Wide range of AC load voltages
- Load current up to 125 A
- Instantaneous and zero crossing switching
- Integrated MOV, TVS or RC output protection
- Screw or Faston terminals
- Tailormade heatsink options, thermal pads and protective covers

## SP1M series



	SP1MXN	SP1MXF
DC control, operating voltage	4 V.....32 V	
AC load current	10/16/25 A	
AC load voltage	24 V to 280 V	24 V to 440 V
Switching	Instantaneous or zero crossing switching	
Surge protection	Integrated MOV, TVS or RC protection	
Environmental protection class	IP 00	
Operating temperature	- 30 °c bis +80 °C	
Terminal type	Screw	Faston

## SP1P series

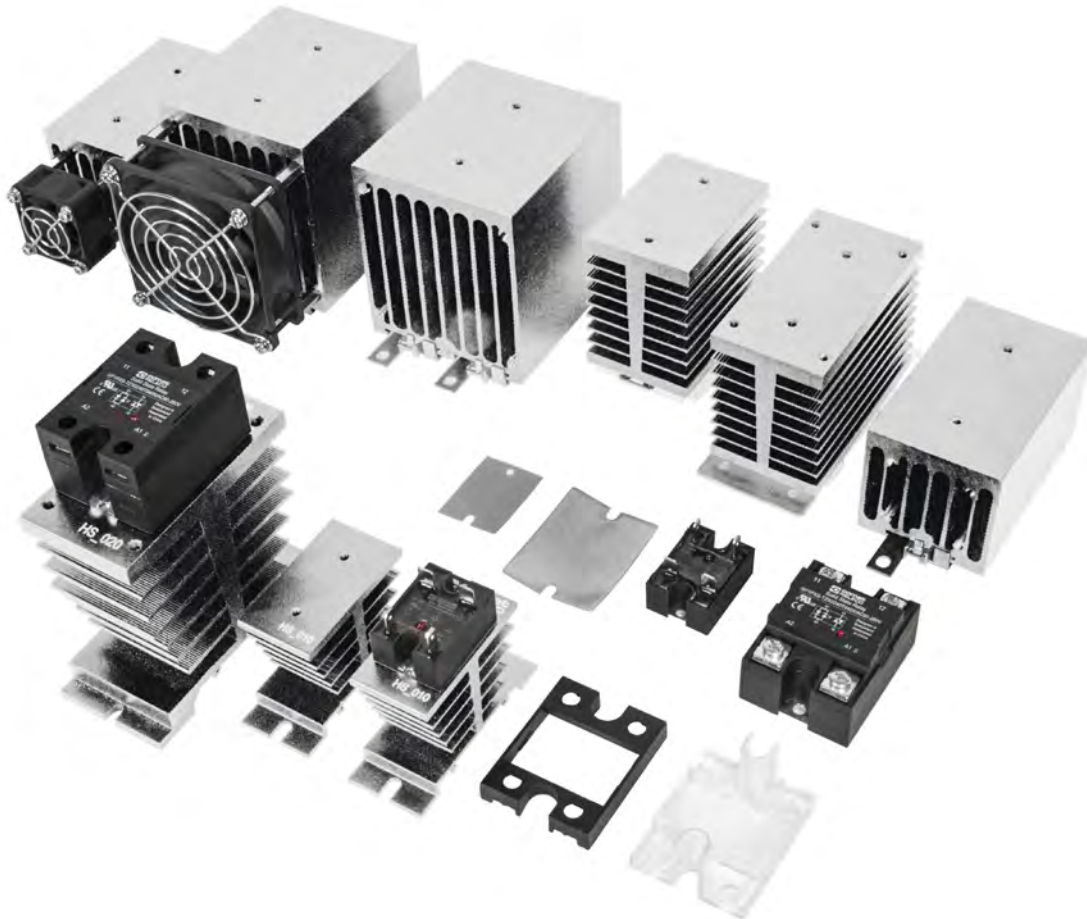


	SP1PXN	SP1PXF	SP1PXS
DC & AC control, operating voltage	4 V DC.....32 V DC 90 V AC.....280 V AC		
AC load current	10/15/20/25/40 60/80/100/125 A	10/15/25/40 A	10/15/20/25 40/60/80 A
AC load voltage	48 V to 660 V	48 V to 280 V	48V to 280/530/660 V
Switching	Instantaneous or zero crossing switching		
Surge protection	Integrated MOV, TVS or RC protection		
Environmental protection class	IP 00	IP 00	IP 20
Operating temperature	- 30 °c bis +80 °C		
Terminal type	Screw	Faston	Screw

Heatsink portfolio for different thermal requirements

Heat pads for quick attachment

Protective covers for SP1MXN and SP1PXN SSR series



Heatsink type	Thermal Resistance	FAN	Mounting
HS_003	1.9 C/W	–	DIN rail
HS_004	1.7 C/W	–	DIN rail
HS_005	1.6 C/W	–	DIN rail
HS_006	0.6 C/W	Integrated FAN	DIN rail
HS_007	0.8 C/W	–	DIN rail
HS_008	0.4 C/W	Integrated FAN	DIN rail
HS_010	2.8 C/W	–	Panel
HS_012	2.1 C/W	–	Panel
HS_015	0.6 C/W	–	Panel
HS_020	1.6 C/W	–	Panel
HS_022	1.7 C/W	–	Panel
HS_025	0.8 C/W	–	Panel

For DIN rail snap-on and panel mounting



Main parameters					Control			Output parameters				Control parameters	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
SP	1	M	X	F	-	T	Z	X	0600	V	025	X	/ DC 24V

## 1. Solid State Relay

SP = Solid state Panel mounting

## 2. Channels

- 1 = Single-channel relay
- 2 = Two-channel relay
- 3 = Three-channel relay

## 3. Size H x W x D (mm)

- M = 38.5 x 28.5 x max. 25.2
- P = 58.6 x 45.7 x max. 33.5
- ... = other series

## 4. Free Key

X

## 5. Terminals / IP Protection

- F = Faston / IP00
- L = Faston large / IP00
- S = Screw / IP20
- N = Screw / IP00

## 6. Semiconductor type

- T = Triac / SCR (AC)
- M = MOSFET (DC)
- I = IGBT (DC)
- R = Transistor (DC)

## 7. Logic

- Z = Zero-crossing (AC)
- I = Random-on, Instantaneous (AC)
- N = NPN, Instantaneous (DC)
- P = PNP, Instantaneous (DC)
- Q = Zero crossing / PNP (AC)
- S = Zero crossing, NPN (AC)

## 8. Free key

X

## 9. Output circuit rated voltage

- 0030 = 30 V
- ∴ ∴
- 0250 = 250 V
- ∴ ∴
- 1200 = 1200 V

## 10. Surge protection

- N = RC protection
- V = Varistor and RC
- T = Transient voltage suppressor and RC

## 11. Output circuit current

- 001 = 1 A
- ∴ ∴
- 025 = 25 A
- ∴ ∴
- 125 = 125 A

## 12. Indication

- N = No LED
- X = LED
- A = Alarm output
- B = LED and alarm output

## 13. Control circuit voltage

- AC = AC Voltage
- DC = DC Voltage
- UC = UC Voltage

## 14. Control circuit rated voltage

- 4-15 V
- ∴
- 48 V
- ∴
- 600 V

## Approvals

CE cULus Standards EN 60950-1, EN 62314



Please refer to our «Solid State Relays Catalogue» for detailed information and datasheets.

[www.comatreleco.com](http://www.comatreleco.com)