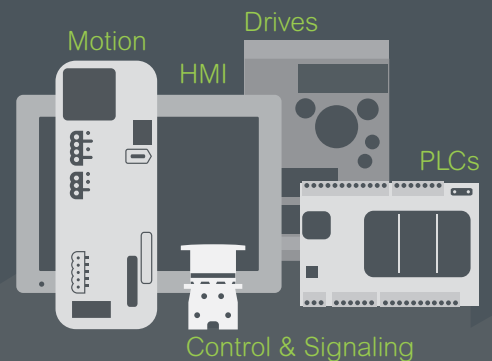




Introducing the **Easy Series**

Essential automation & control products

When just enough is just right!



Easy Harmony Solid State Relays

Panel mount solid state relays

Easy Harmony Solid State Relays



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Schneider
Electric

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Make precise

IMPACT

with Harmony Solid State Relays.



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Easy Harmony - Solid State Relays

Choose long life and silent operation with Easy Harmony SSRs

Maintenance free

fully electronic,
unlimited life span

High switching frequency

allows precise and quick control

Silent and reliable switching

no moving parts,
noiseless switching

Sustainability in harsh environment

resistance to shock,
vibration, and
contamination

Easy Harmony panel mount (SSP) solid state relays provide complete, compact, and innovative solutions for various applications with interfacing control and load switching. They are the ideal solution for packaging, plastic molding, textile, and heating furnace applications.

Choose a complete panel mount solution with SSP relays**Complete solution**

- > Single-phase panel mount solid state relays with a range of heat sinks and accessories to meet application needs from 10 A to 125 A
- > Easy product selection with simplified product nomenclature and direct heatsink selection available in product data sheets
- > Wide choice of heat sinks with thermal resistance ratings of 0.56 °C/W to 0.82 °C/W



SSP1: Single-phase panel mount SSR

SSP relays	
Control input voltage	Load output voltage
⎓ 4...32 V	~ 20...300V

Simple, safe, and robust screw terminals

- > Simple and easy wiring; accepts wires with different kinds of terminations (cable ends, fork lug, ring lug)
- > Safe with IP10 protection and transparent cover on terminal
- > Easy installation and designed for panel mounting by two fastener screws

Simplified installation and mounting

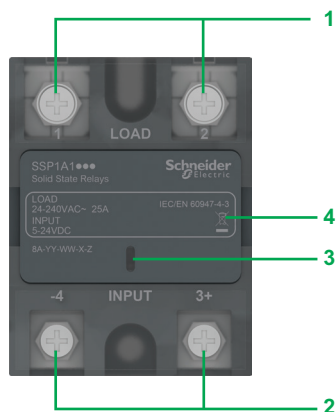
- > Product with readily available thermal pad
- > Heat sink offers panel and DIN rail mounting options

Robustness

- > Lower leakage current ensures higher reliability
- > Enhanced insulation performance with higher Uimp

Type of product		Panel mount SSR					
							
Number of phases		1					
Type of mounting		Panel mounted					
Control input voltage		4-32V					
Rated input voltage		5-24V					
Rated Output voltage		24-240V					
Output voltage range		20-300V					
Rated Output load current Specific utilization category @25°C	With Heatsink	0.1-10A	0.1-25A	0.1-50A	1-75A	1-90A	1-125A
	Without Heatsink	0.1-5A	0.1-10A	0.1-12A	1-12A	1-12A	1-12A
Surge Current	AC ~	150 A (1/2 Cycle)	250 A (1/2 Cycle)	500 A (1/2 Cycle)	750 A (1/2 Cycle)	900 A (1/2 Cycle)	1250 A (1/2 Cycle)
	Zero voltage	Yes					
Type of switching	Random	–					
	DC ⎓	–					
Cooling		With thermal pad					
Degree of protection		IP10					
LED indication		Yes					
Actuation and release time		≤ 1/2 load power cycle					
Maximum voltage drop		< 1.6V on state					
Maximum leakage current		< 1 mA off state					
Insulation resistance		500 MΩ at 500V ⎓					
Insulation performance		3kV ~ suitable for input/output (channel) 3kV ~ suitable for output/housing					
Rated impulse withstand voltage		6kV Imp suitable for input/output (channel) 6kV Imp suitable for output/housing					
Operating temperature range		-30 to 80°C					
Storage temperature range		-30 to 100°C					
Ambient humidity		45%~85%					
Product certification		CE, UL, UKCA					
Conforming to standards		UL 508, IEC/EN 60947-4-3, IEC/EN 62314, CSA C22.2 No 14					
Solid state output type		TRIAC output	SCR output				
Product reference		SSP1A110BDE	SSP1A125BDE	SSP1A150BDE	SSP1A175BDE	SSP1A190BDE	SSP1A1125BDE
Page		7					





Front view

Presentation of the range

SSP solid state relays are single-phase panel mount relays that offer complete solid state control and switching solutions.

- > Easy product selection with simplified product nomenclature and direct heat sink selection available in product data sheets.
- > Wide choice of heat sinks with thermal resistance ratings of 0.56 °C/W to 0.82 °C/W.

The SSP relay range is the single-phase panel mount solid state relays available thermal pad and extended rated output voltage of up to 300V AC and load current rating of 10 A to 125 A.

Relay description

SSP1 single-phase panel mount relays

- 1 Load output connection screw terminals
- 2 Control input connection screw terminals
- 3 Control input voltage LED indicator
- 4 Indication area for product label or markings



SSP1A110BDE



SSP1HP06

SSP1 single-phase solid state relays

Relays with embedded thermal pad

Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
Zero voltage switching	4...32	20...300	10	SSP1A110BDE	0.115 / 0.254
			25	SSP1A125BDE	0.115 / 0.254
			50	SSP1A150BDE	0.115 / 0.254
			75	SSP1A175BDE	0.115 / 0.254
			90	SSP1A190BDE	0.115 / 0.254
			125	SSP1A1125BDE	0.115 / 0.254

Heat sinks for customer assembly

Mounting	Relays supported	Bottom area	Thermal resistance	Reference	Weight
		cm ² /in ²	°C/W		
Panel mount	SSP1A190BDE SSP1A1125BDE	154.37/23.92	0.56	SSP1HP06	0.568 / 1.252
	SSP1A140BDE SSP1A150BDE SSP1A175BDE	76.05/11.78	0.69	SSP1HP07	0.377 / 0.831
	SSP1A110BDE SSP1A125BDE	42.03/6.51	0.82	SSP1HP08	0.179 / 0.395

S	
SSP1A110BDE	7
SSP1A125BDE	7
SSP1A150BDE	7
SSP1A175BDE	7
SSP1A190BDE	7
SSP1A1125BDE	7
SSP1HP06	7
SSP1HP07	7
SSP1HP08	7

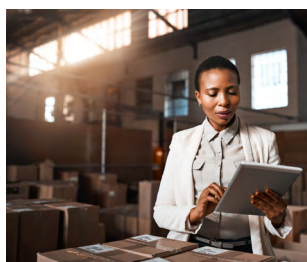
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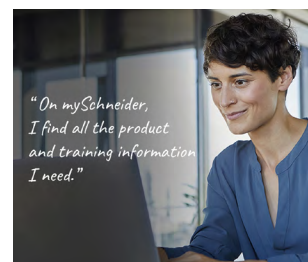
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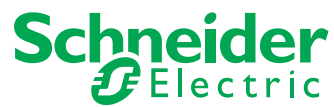
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