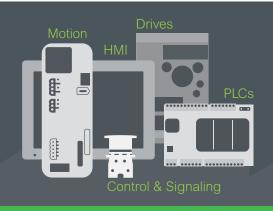


Introducing the Easy Series

Essential automation & control products

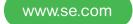
When just enough is just right!



Easy Harmony Solid State Relays

Panel mount solid state relays







General Contents

General Presentationp	page 03
Selection guide	page 04
Presentationr	page 06
Description	page 06
References	
□ SSP1 single-phase solid state relays	page 07
□ Heat sinks for customer assembly	page 07
Product reference index	page 08

Make precise

IMPACT

with Harmony Solid State Relays.





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

Sustainablility 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



Control input voltage	Load output voltage
432 V	~ 20505V

SSP1: Single-phase panel mount SSR

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 IP 10 protection and transparent cover on terminal
- > Easy installation and designed for panel mounting by 2 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

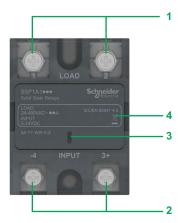
Type of product

Panel mount SSR



Number of phases		1								
Type of mounting		Panel mounted								
Control input voltage DC		4-32V								
Rated input voltage	DC 	5-24V	5-24V							
Rated Output voltage	AC ∼	24-480V								
Output voltage range	AC ∼	20-505V	20-505V							
	With Heatsink	0.1-10A	0.1-25A	0.1-40A	0.1-50A	1-75A	1-90A	1-125A		
Specific utilization category @25°C	Without Heatsink	0.1-5A	0.1-10A	0.1-10A	0.1-12A	1-12A	1-12A	1-12A		
Surge Current	AC ∼	100 A (1/2 Cycle)	250 A (1/2 Cycle)	400A (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	With thermal pad							
Degree of protection		IP 10								
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		$500 \text{ M}\Omega$ at 500V $\overline{\ldots}$								
Insulation performance		3.8kV input or output to case 2kV output ground connection								
Rated impulse withstand voltage		8kV input or output to case 6kV output ground connection								
Operating temperature range		-30 to 80°C	-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	SSP1A140BDE	SSP1A150BDE	SSP1A175BDE	SSP1A190BDE	SSP1A1125BDE		
Page		7								





Front view

Presentation of the range

SSP solid state relavys 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 480V 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

SSP1 single-phase solid state relays Heat Sinks



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	Α		kg/ <i>lb</i>		
Zero voltage	432	~ 20505	10	SSP1A110BDE	0.115 / <i>0.254</i>		
switching			25	SSP1A125BDE	0.115/0.254		
			40	SSP1A140BDE	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 sinl	Heat sinks for customer assembly							
Mounting Relays supported		Bottom area	Thermal resistance	Reference e	Weight			
		cm²/in²	°C/W		kg/lb			
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			

Product reference index

S	
SSP1A110BDE	7
SSP1A125BDE	7
SSP1A140BDE	7
SSP1A150BDE	7
SSP1A175BDE	7
SSP1A190BDE	7
SSP1A1125BDE	7
SSP1HP06	7
SSP1HP07	7
SSP1HP08	7

Notes



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