



Harmony Solid State Relays

Slim interfaces, Modular DIN rail and
Panel mount solid state relays



Harmony

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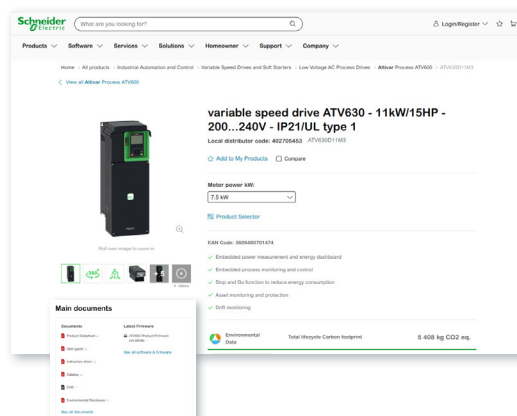


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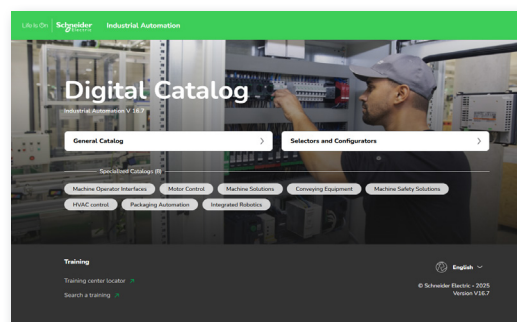
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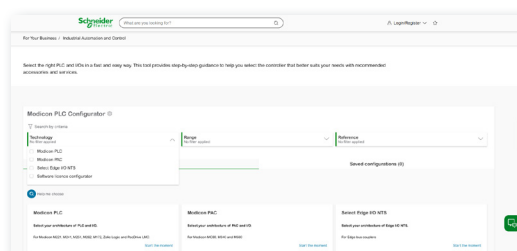
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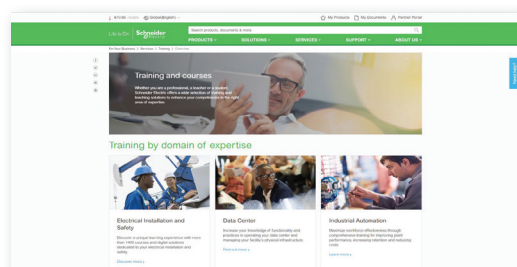
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Make precise

IMPACT

with Harmony Solid State Relays.



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Harmony Solid State Relays

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Harmony Relays - Solid State Relays

Choose long life and silent operation with 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

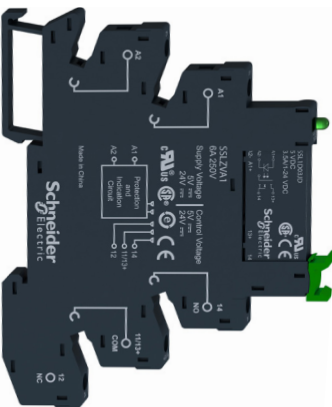
resistance to shock,
vibration, and
contamination

The Harmony SSR series offers slim interface (SSL), modular DIN rail (SSD, SSM) and panel mount (SSP) solid state relays that provide complete, compact, and innovative solutions for a wide variety of applications with interfacing control and load switching. They are the ideal solution for packaging, plastic molding, textile, and heating furnace applications.

Choose a slim interfacing solution with SSL relays

Slim relay-socket solution

- > Complete range of control input and load output configurations for both AC and DC switching applications
- > Compact solution with 6 (mm)/0.24 (in) width, allows customers to choose the combination of relays and associated sockets from the wide range available



Pre-assembled SSL relays*

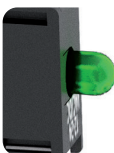
Control input voltage	Load output voltage
--- 4...12 V	--- 3...30V --- 1...48V ~ 24...250V
--- 16...30V	--- 3...30V --- 1...48V ~ 24...250V

* SSL relays + SSLZ sockets

SSL slim interface relay mounted on SSLZ socket

Enhanced performance in any situation

- > Socket with integrated reverse polarity protection circuit and control input/relay status LED indicator
- > IP 67 protection and fully encapsulated



LED indicator for relay status

Simplified installation and mounting

- > Locking/unlocking lever for replacing relay from the socket
- > Simple mounting on DIN rail
- > Choice of screw connector and spring terminal connection for sockets



Screw connector



Spring terminal

SSL (1-phase) + SSLZ (socket) → Slim plug-in interface solution

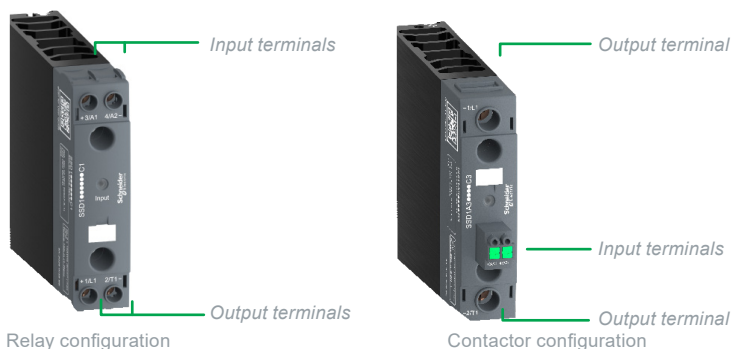
Choose reliability and flexibility with innovative DIN rail mount SSD relays

Performance

- > High I²T (up to 9800 A²S) to facilitate the use of circuit breakers instead of fuses, allowing Type 1 coordination protection (as per IEC 60947-4-3)
- > High current rating (up to 35 A for 22.5 (mm)/0.89 (in) models, and up to 60 A for 45 (mm)/1.77 (in) models) at a compact size, optimizing the size of your enclosure
- > Surge protection from applications with built-in transient overvoltage protection

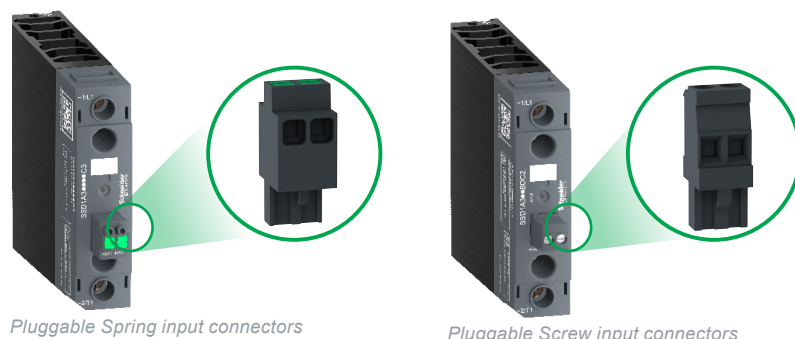
Flexibility

- > Relay and Contactor configuration to suit your wiring preferences



Simplified selection and installation

- > Integrated heat sink helps eliminate the need for thermal calculations
- > Spring and screw input connectors option is available for simplified wiring



Wide range of standards and certifications

- > Electromagnetic compatibility complying to IEC 62314, IEC 60947-4-3/IEC 60947-5-1 standard
- > Conforms to a wide range of internationally recognized standards and certification



SSD relays	
Control input voltage	Load output voltage
~ 4...32 V	~ 1...150 V ~ 48...600 V
~ 90...280 V	~ 48...600 V

Choose modularity with DIN rail mount SSM relays

Ready to use “Plug and play”

- > Modular design of IP 20 housing and built-in heat sink for optimized operating conditions
- > Easy mounting on standard 35 (mm)/1.38 (in) DIN rail with a secure mounting latch

Compact design

- > Requires less panel space due to slim width and thus reduces the size of your enclosures
- > Optimized modular design available in various sizes (12 (mm)/0.47(in), 18 (mm)/0.71(in), and 90 (mm)/3.54(in)width) with load output current of 6, 12, and 25 A

12(mm)/0.47(in)



SSM1: 6 A
single-phase SSR

18(mm)/0.71(in)



SSM2: 6 A dual channel,
single-phase SSR

90(mm)/3.54(in)



SSM3: 25 A
three-phase SSR

SSM1relays

Control input voltage	Load output voltage
---4...32 V	---1...60 V ---1...100 V
---4...32 V	~24...280 V ~48...600 V
~18...36 V ~90...140 V ~200...265 V	~24...280 V ~48...600 V

SSM2relays

Control input voltage	Load output voltage
---4...32 V	~24...280 V

SSM3relays

Control input voltage	Load output voltage
---4...32 V	~48...600 V
~90...140 V	~48...600 V
~180...280 V	~48...600 V

Enhanced modular solution

- > Wide choice of relays with single-phase and three-phase options and current ratings from 6 A to 25 A
- > Zero voltage switching for resistive loads and random switching for inductive loads
- > UL and cUL approved including the general purpose and motor controller rating standards

Choose a complete panel mount solution with SSP relays

Complete solution

- > Single-phase and three-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 heat sink selection available in product data sheets
- > Wide choice of heat sinks with thermal resistance ratings of 0.2 °C/W to 2.5 °C/W



SSP1: Single-phase panel mount SSR

SSP1 relays	
Control input voltage	Load output voltage
3.5...32 V	1...150 V
3...32 V	24...300 V
4...32 V	48...660 V
90...280 V	24...300 V
	48...660 V



SSP1.S: Single-phase panel mount SSR with smart diagnostic features

SSP1.S relays	
Control input voltage	Load output voltage
3...32 V	24...300 V
4...32 V	48...660 V



SSP3: Three-phase panel mount SSR

SSP3 relays	
Control input voltage	Load output voltage
4-32 V	42-660 V
18-36 V	42-660 V
90-280 V	

Simple, and robust screw terminals

- > Simple and easy wiring; accepts wires with different kinds of terminations
- > Design with IP 20 protection and integrated enclosure
- > Robust self-aligned screw terminals with proven effectiveness in helping to prevent screw jams

Innovative SSP1.S with smart diagnostics and test button

- > Smart diagnostic features with built-in visual indicator and alarm output enables quick response to unexpected results and correct monitoring of SSR operation
- > A test button for easy debugging, testing, and commissioning

Simplified installation and mounting

- > Readily available factory-fit thermal pad
- > Heat sink offers panel and DIN rail mounting options

SSP1 (1-phase) / **SSP3** (3-phase) + **SSRH** (Heat sinks) → **Complete solution**

Type of product	Slim interface SSR		Modular DIN rail SSR
	Customer assembly (Relay and socket)	Pre-assembled (Relay with socket)	
			
Number of phases	1		1
Type of mounting	Plug-in pins with DIN rail mounted socket		DIN rail mounted
Control input voltage	~	–	90...280 V
	---	3...12 V 15...30 V 16...30 V	4...32 V 90...280 V
Output load voltage	~	24...280 V	48...600 V
	---	3...30 V 1...48 V	1...150 V
Output load current	~	2 A	20,35 A for 22.5(mm)/0.89(in) 45, 60 A for 45(mm)/1.77(in)
	---	0.1, 3.5 A	20,30 A for 22.5 mm/0.886 in.
Type of switching	Zero voltage	Yes	Yes
	Random	Yes	Yes
	DC	Yes	Yes
Cooling	–		Built-in heat sink
Degree of protection	IP 67 (encapsulation) IP 20 (socket)		IP 20
LED indication	Yes (on socket)		Yes
Solid state relay type	SSL (1) (2)		SSD1
Pages	9		13

(1) SSL slim relays and SSLZ sockets.
(2) Pre-assembled SSL slim relays (relay + socket).

Modular DIN rail SSR (continued)			Panel mount SSR	
				
1	1 (dual SSR)	3	1	3
DIN rail mounted	DIN rail mounted	DIN rail mounted	Panel mounted	Wall mounted
18...36 V 90...140 V 200...265 V	–	90...140 V 90...280 V	90...280 V	18...36 V 90...280 V
4...32 V	4...32 V	4...32 V	3...32 V 4...32 V	4...32 V
24...280 V 48...600 V	24...280 V	48...600 V	24...300 V 48...660 V	42...660 V
1...60 V 1...100 V	–	–	1...150 V	–
6 A for 12(mm)/0.47(in) 12 A for 18(mm)/0.71(in)	6 A	25 A	10, 25, 50, 75, 90, 125 A	25, 50 A
6 A for 12(mm)/0.47(in) 12 A for 18(mm)/0.71(in)	–	–	12, 25, 40 A	–
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	–	Yes
Yes	–	–	Yes	–
Built-in heat sink	Built-in heat sink	Built-in heat sink	Option with thermal pad	With thermal pad
IP 20	IP 20	IP 20	IP 20	IP 20
Yes	Yes	Yes	Yes	Yes
SSM1	SSM2	SSM3	SSP1	SSP3
16	17	17	19	20



Pre-assembled solid state slim relays

Relays mounted on screw sockets (sold in lots of 30)

1 NO contact Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
DC Switching	— 4 to 12	— 3 to 30	3.5	SSL1D03JDPV (SSL1D03JD + SSLZVA1)	0.033/0.073
Zero voltage switching	— 4 to 12	~ 24 to 250	2	SSL1A12JDPV (SSL1A12JD+SSLZVA1)	0.033/0.073
DC Switching	— 16 to 30	— 3 to 30	3.5	SSL1D03BDPV (SSL1D03BD+SSLZVA1)	0.033/0.073
	— 16 to 30	— 1 to 48	0.1	SSL1D101BDPV (SSL1D101BD+SSLZVA1)	0.033/0.073
Zero voltage switching	— 16 to 30	~ 24 to 250	2	SSL1A12BDPV (SSL1A12BD+SSLZVA1)	0.033/0.073
Random switching	— 16 to 30	~ 24 to 250	2	SSL1A12BDRPV (SSL1A12BDR+SSLZVA1)	0.033/0.073

Relays mounted on spring sockets (sold in lots of 30)

DC Switching	— 4 to 12	— 3 to 30	3.5	SSL1D03JDPR (SSL1D03JD+SSLZRA1)	0.033/0.073
DC Switching	— 16 to 30	— 3 to 30	3.5	SSL1D03BDPR (SSL1D03BD+SSLZRA1)	0.033/0.073
Zero voltage switching	— 16 to 30	~ 24 to 250	2	SSL1A12BDPR (SSL1A12BD+SSLZRA1)	0.033/0.073

PF 123409A



SSL1A12JD

PF 123420B



SSLZVA1 + SSL1D03JD

Relays and sockets for customer assembly

SSL single-phase solid state relays (sold in lots of 10)

Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
DC switching	--- 3 to 12	--- 3 to 30	3.5	SSL1D03JD	0.004/0.009
		--- 1 to 48	0.1	SSL1D101JD	0.004/0.009
	--- 15 to 30	--- 3 to 30	3.5	SSL1D03BD	0.004/0.009
	--- 16 to 30	--- 1 to 48	0.1	SSL1D101BD	0.004/0.009
Zero voltage switching	--- 3 to 12	~ 24 to 280	2	SSL1A12JD	0.004/0.009
	--- 15 to 30	~ 24 to 280	2	SSL1A12BD	0.004/0.009
Random switching	--- 3 to 12	~ 24 to 280	2	SSL1A12JDR	0.004/0.009
	--- 15 to 30	~ 24 to 280	2	SSL1A12BDR	0.004/0.009

Sockets equipped with LED and protection circuit (sold in lots of 10)

Control voltage (Nominal) For use with relays		Socket type		Spring terminals	
		Screw connector	Unit reference	Unit reference	Weight
V			Weight		kg/lb
--- 5	SSL1D03JD	SSLZVA1	0.029/0.063	SSLZRA1	0.029/0.063
	SSL1D101JD				
	SSL1A12JD				
	SSL1A12JDR				
--- 24	SSL1D03BD	SSLZVA1	0.029/0.063	SSLZRA1	0.029/0.063
	SSL1D101BD				
	SSL1A12BD				
	SSL1A12BDR				



RSLZ2



RSLZ3

Accessories for sockets			
Description	Compatibility	Reference	Weight kg/lb
Clip-in legends (2 sheets of 64 legends)	SSL sockets	RSLZ5	0.001/0.002
Bus jumper (10 x 20-pole jumper)	SSL sockets	RSLZ2	0.003/0.007
Partition plate (10 partition plates)	SSL sockets	RSLZ3	0.001/0.002

Presentation of the range

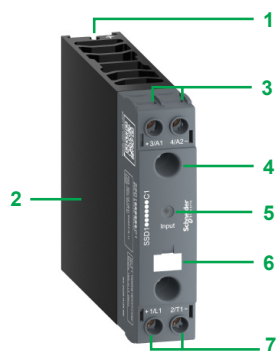
SSD1 solid state relays are single-phase DIN rail mounted relays with high-power density of up to 60 A and built-in heat sink. They are available in two configurations, namely the relay and contactor types.

The **SSD1** family offers a unique range of terminal connections (input connectors: spring or screw plug-in, output terminals: standard screw, copper lug) providing options as per the wiring preference.

Relay description

SSD1 relay, 22.5(mm)/0.89(in) – Relay configuration

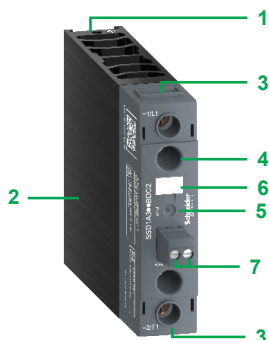
- 1 Locating slot for mounting on DIN rail
- 2 Built-in heat sink for heat dissipation
- 3 Control input connection terminals
- 4 Fixing hole for attaching relay to heat sink
- 5 LED input status indicator
- 6 Clip-in legend for easy identification
- 7 Load output connection terminals



SSD1 single-phase solid state DIN rail relay, 22.5(mm)/0.89(in)

SSD1 relay, 22.5(mm)/0.89(in) – Contactor configuration with pluggable (screw or spring) input connector

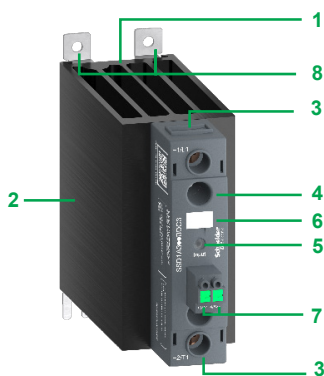
- 1 Locating slot for mounting on DIN rail
- 2 Built-in heat sink for heat dissipation
- 3 Load output connection terminals
- 4 Fixing hole for attaching relay to heat sink
- 5 LED input status indicator
- 6 Clip-in legend for easy identification
- 7 Pluggable input connector (spring or screw options available)



SSD1 single-phase solid state DIN rail contactor with pluggable screw input, 22.5(mm)/0.89(in)

SSD1 relay, 45(mm)/1.77(in) – Contactor configuration with pluggable (screw or spring) input connector

- 1 Locating slot for mounting on DIN rail
- 2 Built-in heat sink for heat dissipation
- 3 Load output connection terminals
- 4 Fixing hole for attaching relay to heat sink
- 5 LED input status indicator
- 6 Clip-in legend for easy identification
- 7 Pluggable input connector (spring or screw options available)
- 8 Lugs for panel mounting



SSD1 single-phase solid state DIN rail contactor with pluggable spring input, 45(mm)/1.77(in)

Harmony Solid State Relays

SSD solid state DIN rail relays



SSD1 single-phase solid state relays (22.5 (mm)/0.89(in) and 45(mm)/1.77(in))						
Switching	Voltage range		Load current range	Configuration	Reference	Weight
	Control input	Load output				
	V	V	A			kg/lb
DC switching	— 4...32	— 1...150	20	Relay	SSD1D520BDC1	0.300/0.661
			30	Relay	SSD1D530BDC1	0.300/0.661
Zero voltage switching	— 4...32	~ 48...600	20	Relay	SSD1A320BDC1	0.300/0.661
			20	Contact, Screw input connector	SSD1A320BDC2	0.301/0.664
			20	Contact, Spring input connector	SSD1A320BDC3	0.301/0.664
			35	Relay	SSD1A335BDC1	0.300/0.661
			35	Contact, Screw input connector	SSD1A335BDC2	0.301/0.664
			35	Contact, Spring input connector	SSD1A335BDC3	0.300/0.661
			45	Contact, Screw input connector	SSD1A345BDC2	0.503/1.109
			45	Contact, Spring input connector	SSD1A345BDC3	0.503/1.109
			60	Contact, Screw input connector	SSD1A360BDC2	0.503/1.109
			60	Contact, Spring input connector	SSD1A360BDC3	0.503/1.109
			20	Relay	SSD1A320M7C1	0.300/0.661
			35	Relay	SSD1A335M7C1	0.300/0.661
Random switching	— 4...32	~ 48...600	35	Contact, Spring input connector	SSD1A335M7C3	0.300/0.661
			45	Contact, Screw input connector	SSD1A345M7C2	0.503/1.109
			20	Relay	SSD1A320BDC1	0.300/0.661
			20	Relay	SSD1A320BDC1	0.300/0.661

Presentation of the range

SSM solid state relays are compact relays offering greater power density. The modular IP 20 housing design and built-in heat sink offer optimized operating solutions.

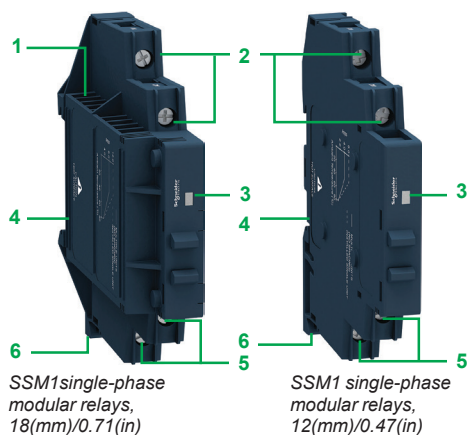
The SSM relay range comprises:

- **SSM1**: Single-phase SSR relays with 6, 12 A ratings
- **SSM2**: Single-phase dual SSR relays with 6 A rating
- **SSM3**: Three-phase SSR relays with 25 A rating

Relay description

SSM1 relays, 12(mm)/0.47(in)width and 18(mm)/0.71(in) width

- 1 Built-in heat sink for heat dissipation
- 2 Control input connection terminals
- 3 Control input voltage LED indicator in green
- 4 Bracket for mounting on 35(mm)/1.38(in) DIN rail
- 5 Load output connection terminals
- 6 Mounting latch





SSM2 single-phase dual channel modular relays,
18(mm)/0.71(in)

Relay description

SSM2 relays, 18(mm)/0.71(in) width

- 1 Built-in heat sink for heat dissipation
- 2 Load output connection terminals for Channel A
- 3 Separate input voltage LED indicator in green
- 4 Separate control input connection terminals
- 5 Load output connection terminals for Channel B
- 6 Mounting latch
- 7 Bracket for mounting on 35(mm)/1.38(in) DIN rail



SSM3 three-phase modular relays,
90(mm)/3.54(in)

SSM3 relays, 90(mm)/3.54(in) width

- 1 Lugs for panel mounting
- 2 Built-in heat sink for heat dissipation
- 3 Control input connection terminals
- 4 Control input voltage LED indicator in green
- 5 Bracket for mounting on 35(mm)/1.38(in) DIN rail
- 6 Load output connection terminals



SSM1A36BD



SSM1A312BD

SSM1 single-phase solid state relays (6 A, 12(mm)/0.47(in) and 12 A, 18(mm)/0.71(in))					
Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
DC switching	~ 4...32	~ 1...60	6	SSM1D26BD	0.050/0.110
			12	SSM1D212BD	0.090/0.198
		~ 1...100	6	SSM1D36BD	0.050/0.110
			12	SSM1D312BD	0.090/0.198
Zero voltage switching	~ 4...32	~ 24...280	6	SSM1A16BD	0.050/0.110
			12	SSM1A112BD	0.090/0.198
		~ 48...600	6	SSM1A36BD	0.050/0.110
			12	SSM1A312BD	0.090/0.198
	~ 18...36	~ 24...280	6	SSM1A16B7	0.050/0.110
			12	SSM1A112B7	0.090/0.198
		~ 48...600	6	SSM1A16F7	0.050/0.110
			12	SSM1A312F7	0.090/0.198
	~ 200...265	~ 24...280	12	SSM1A112P7	0.090/0.198
			12	SSM1A112BDR	0.090/0.198
Random switching	~ 4...32	~ 48...600	6	SSM1A36BDR	0.050/0.110
			12	SSM1A312BDR	0.090/0.198
	~ 18...36	~ 48...600	12	SSM1A312B7R	0.090/0.198
			12	SSM1A112F7R	0.090/0.198
	~ 90...140	~ 24...280	12	SSM1A112F7R	0.090/0.198
			12	SSM1A312F7R	0.090/0.198
	~ 200...265	~ 24...280	12	SSM1A112P7R	0.090/0.198
			12	SSM1A312P7R	0.090/0.198

PF123428B



SSM2A16BDR

SSM2 single-phase solid state relays, dual channel (6 A, 18(mm)/0.71(in))

Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
Zero voltage switching	— 4...32	~ 24...280	6	SSM2A16BD	0.090/0.198
Random switching	— 4...32	~ 24...280	6	SSM2A16BDR	0.090/0.198

PF152212



SSM3A325F7

SSM3 three-phase solid state relays (25 A, 90(mm)/3.54(in))

Switching	Voltage range		Load current range	Reference	Weight
	Control input	Load output			
	V	V	A		kg/lb
Zero voltage switching	— 4...32	~ 48...600	25	SSM3A325BD	0.740/1.631
	~ 90...140	~ 48...600	25	SSM3A325F7	0.740/1.631
	~ 180...280	~ 48...600	25	SSM3A325P7	0.740/1.631
Random switching	— 4...32	~ 48...600	25	SSM3A325BDR	0.740/1.631

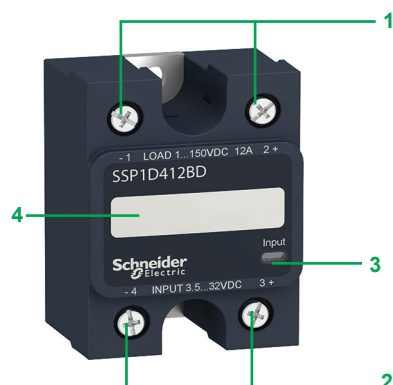
RS_CP20737



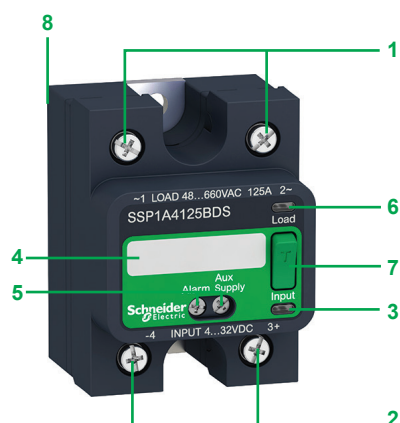
SSRAC200

Accessories

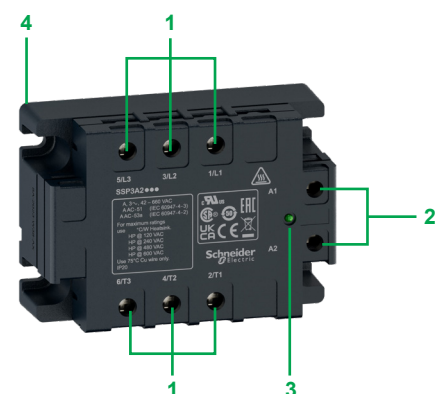
Description	Types of relay supported	Unit reference	Weight
			kg/lb
4 Pin connector cable for SSM2 relay	SSM2A16BD, SSM2A16BDR	SSRAC200	0.055/0.121



SSP1 single-phase panel mount relays



SSP1 single-phase panel mount relays with smart diagnostic feature



SSP3 three-phase panel mount relays

Presentation of the range

SSP solid state relays are single-phase and three-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 2.5 °C/W to 0.2 °C/W.

The SSP relay range comprises:

- **SSP1**: Single-phase panel mount solid state relays available with/without embedded thermal pad and smart diagnostic features, extended load output voltage of up to 660 V ~ and load current rating of 10 A to 125 A.
- **SSP3**: Three-phase panel mount solid state relays integrated with R-C snubber circuit, TVS (Transient Voltage Suppression), extended load output voltage of up to 660 V ~ and load current ratings of 25 A and 50 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
- 5 Smart diagnostic auxiliary input and alarm output
- 6 Load output LED indicator
- 7 Test button
- 8 Optional factory-fit thermal pad that is glued on the rear of the product

SSP3 three-phase panel mount relays

- 1 Load output connection screw terminals
- 2 Control input connection screw terminals
- 3 Control input voltage LED indicator
- 4 Factory-fit thermal pad that is glued on the rear of the product



SSP1D425BD



SSP1A125BDS

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
DC switching	— 3.5...32	— 1...150	12	SSP1D412BDT	0.089/0.196
			25	SSP1D425BDT	0.089/0.196
			40	SSP1D440BDT	0.089/0.196
Zero voltage switching	— 3...32	~ 24...300	10	SSP1A110BDT	0.089/0.196
			25	SSP1A125BDT	0.089/0.196
			50	SSP1A150BDT	0.089/0.196
			75	SSP1A175BDT	0.089/0.196
	— 4...32	~ 48...660	50	SSP1A450BDT	0.089/0.196
			75	SSP1A475BDT	0.089/0.196
			90	SSP1A490BDT	0.089/0.196
			125	SSP1A4125BDT	0.089/0.196
	~ 90...280	~ 24...300	10	SSP1A110M7T	0.089/0.196
			25	SSP1A125M7T	0.089/0.196
			50	SSP1A150M7T	0.089/0.196
			75	SSP1A175M7T	0.089/0.196
		~ 48...660	75	SSP1A475M7T	0.089/0.196
			90	SSP1A490M7T	0.089/0.196
			125	SSP1A4125M7T	0.089/0.196

Relays without embedded thermal pad

DC switching	— 3.5...32	— 1...150	12	SSP1D412BD	0.089/0.196
			25	SSP1D425BD	0.089/0.196
			40	SSP1D440BD	0.089/0.196
Zero voltage switching	— 3...32	~ 24...300	10	SSP1A110BD	0.089/0.196
			25	SSP1A125BD	0.089/0.196
			50	SSP1A150BD	0.089/0.196
			75	SSP1A175BD	0.089/0.196
	— 4...32	~ 48...660	50	SSP1A450BD	0.089/0.196
			75	SSP1A475BD	0.089/0.196
			90	SSP1A490BD	0.089/0.196
			125	SSP1A4125BD	0.089/0.196
	~ 90...280	~ 24...300	25	SSP1A125M7	0.089/0.196
			50	SSP1A150M7	0.089/0.196
		~ 48...660	50	SSP1A450M7	0.089/0.196
			75	SSP1A475M7	0.089/0.196
			90	SSP1A490M7	0.089/0.196
			125	SSP1A4125M7	0.089/0.196

Relays with embedded thermal pad and smart diagnostic features

Zero voltage switching	— 3...32	~ 24...300	25	SSP1A125BDS	0.097/0.214
			75	SSP1A475BDS	0.097/0.214
			125	SSP1A4125BDS	0.097/0.214



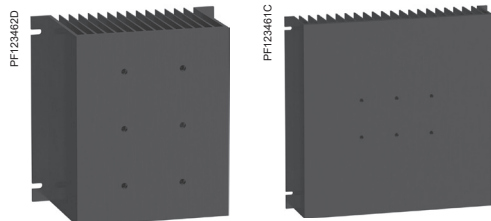
SSP3A225P7T

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	~ 42...660	25	SSP3A225BDT	0.370/0.816
			50	SSP3A250BDT	0.370/0.816
	~ 18...36	~ 42...660	50	SSP3A250B7T	0.370/0.816
	~ 90...280	~ 42...660	25	SSP3A225P7T	0.370/0.816
			50	SSP3A250P7T	0.370/0.816
Random switching	⎓ 4...32	~ 42...660	25	SSP3A225BDRT	0.370/0.816
			50	SSP3A250BDRT	0.370/0.816
	~ 90...280	~ 42...660	50	SSP3A250P7RT	0.370/0.816

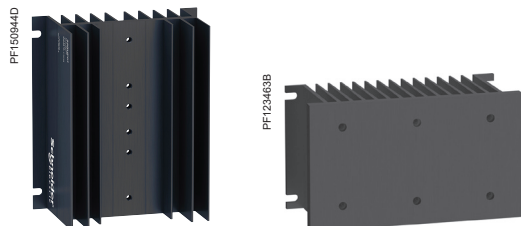
Harmony Solid State Relays

SSP solid state panel mount relays



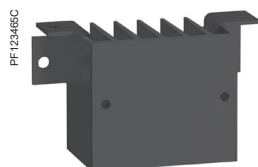
SSRHP05

SSRHP02

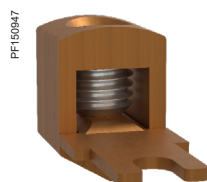


SSRHP07

SSRHP10



SSRHP25



SSRAL4

Heat sinks for customer assembly

Mounting	Number and type of relays supported	Surface area cm ² /in ²	Thermal resistance °C/W	Reference	Weight kg/lb
Panel mount	Up to 3 SSP1 units 1 SSP3 unit	6,823/1,058	0.2	SSRHP02	2.592/5.714
	Up to 3 SSP1 units 1 SSP3 unit	4,406/683	0.5	SSRHP05	1.440/3.174
	1 SSP1 unit	1,640/254	0.7	SSRHP07	0.526/1.159
	Up to 3 SSP1 units 1 SSP3 unit	1,425/221	1	SSRHP10	0.620/1.367
	1 SSP1 unit	336/52.10	2.5	SSRHP25	0.100/0.220
DIN rail mount	Up to 3 SSP1 units 1 SSP3 unit	1,425/221	1	SSRHD10	0.630/1.389

Accessories

Description	Type of relays supported	Unit reference	Weight kg/lb
Copper terminal lug for AWG 6 (13.3 mm ²) to AWG 0 (53.5 mm ²) Sold in lots of 10	SSP1/SSD1	SSRAL4	0.037/0.082

R		SSM3A325BD	17
RSLZ2	11	SSM3A325BDR	17
RSLZ3	11	SSM3A325F7	17
RSLZ5	11	SSM3A325P7	17
S		SSP1A110BD	19
SSD1A360BDC3	13	SSP1A110BDT	19
SSD1A320BDC1	13	SSP1A110M7T	19
SSD1A320BDC2	13	SSP1A125BD	19
SSD1A320BDC3	13	SSP1A125BDS	19
SSD1A320BDRC1	13	SSP1A125BDT	19
SSD1A320M7C1	13	SSP1A125M7	19
SSD1A335BDC1	13	SSP1A125M7T	19
SSD1A335BDC2	13	SSP1A150BD	19
SSD1A335BDC3	13	SSP1A150BDT	19
SSD1A335M7C1	13	SSP1A150M7	19
SSD1A335M7C3	13	SSP1A150M7T	19
SSD1A345BDC2	13	SSP1A175BD	19
SSD1A345BDC3	13	SSP1A175BDT	19
SSD1A345M7C2	13	SSP1A175M7T	19
SSD1A360BDC2	13	SSP1A4125BD	19
SSD1D520BDC1	13	SSP1A4125BDS	19
SSD1D530BDC1	13	SSP1A4125BDT	19
SSL1A12BD	10	SSP1A4125M7	19
SSL1A12BDPR	9	SSP1A4125M7T	19
SSL1A12BDPV	9	SSP1A450BD	19
SSL1A12BDR	10	SSP1A450BDT	19
SSL1A12BDRPV	9	SSP1A450M7	19
SSL1A12JD	10	SSP1A475BD	19
SSL1A12JDPV	9	SSP1A475BDS	19
SSL1A12JDR	10	SSP1A475BDT	19
SSL1D03BD	10	SSP1A475M7	19
SSL1D03BDPR	9	SSP1A475M7T	19
SSL1D03BDPV	9	SSP1A490BD	19
SSL1D03JD	10	SSP1A490BDT	19
SSL1D03JDPR	9	SSP1A490M7	19
SSL1D03JDPV	9	SSP1A490M7T	19
SSL1D101BD	10	SSP1D412BD	19
SSL1D101BDPV	9	SSP1D412BDT	19
SSL1D101JD	10	SSP1D425BD	19
SSLZRA1	10	SSP1D425BDT	19
SSLZVA1	10	SSP1D440BD	19
SSM1A112B7	16	SSP1D440BDT	19
SSM1A112BD	16	SSP3A225BDRT	20
SSM1A112BDR	16	SSP3A225BDT	20
SSM1A112F7R	16	SSP3A225P7T	20
SSM1A112P7	16	SSP3A250B7T	20
SSM1A112P7R	16	SSP3A250BDRT	20
SSM1A16B7	16	SSP3A250BDT	20
SSM1A16BD	16	SSP3A250P7RT	20
SSM1A16F7	16	SSP3A250P7T	20
SSM1A312B7R	16	SSRAC200	17
SSM1A312BD	16	SSRAL4	21
SSM1A312BDR	16	SSRHD10	21
SSM1A312F7	16	SSRHP02	21
SSM1A312F7R	16	SSRHP05	21
SSM1A312P7R	16	SSRHP07	21
SSM1A36BD	16	SSRHP10	21
SSM1A36BDR	16	SSRHP25	21
SSM1D212BD	16		
SSM1D26BD	16		
SSM1D312BD	16		
SSM1D36BD	16		
SSM2A16BD	17		
SSM2A16BDR	17		

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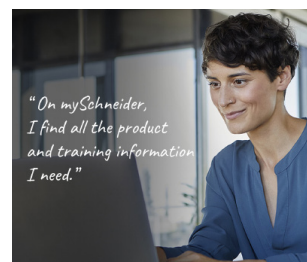
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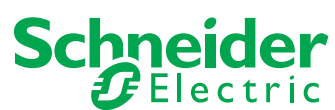
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