Catalog | January 2024



Harmony Solid State Relays

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

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- Harmony Signaling Devices
- Harmony Electrical Relays
- Harmony Safety



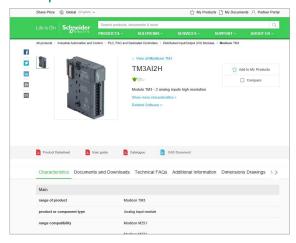
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SSL solid state slim interface relays

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

Sustainablility 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/0.236 in. width, allows customers to choose the combination of relays and associated sockets from the wide range available



Pre-assembled S Control input voltage	SSL_relays* Load output voltage
412 V	124 V 148 V ∼ 24250 V
1630 V	124 V 148 V ∼ 24250 V
* 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

Harmony Solid State Relays SSD solid state DIN rail mount relays

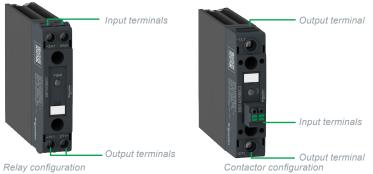
Choose reliability and flexibility with innovative DIN rail mount SSD relays

Performance

- High I²T (up to 8320 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 models, and up to 60 A for 45 mm 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
- > Telescopic screw terminal options available to facilitate the use of lug terminals



Simplified selection and installation

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



Pluggable Spring input connectors

Pluggable Screw input connectors

Wide range of standards and certifications

- > Complies with IEC 61373 for railway and rolling stock application
- > Electromagnetic compatibility complying to IEC 60947-4-3 standard

45mm/1.772 in.

> Conforms to a wide range of internationally recognized standards and certification

22.5mm/0.886 in.



SSD1: 20, 30 and 35 A single-phase SSR



SSD1: 45 and 60 A single-phase SSR

SSD relays Control input voltage	Load output voltage
432V	1150 V ∼48600 V
≂ 90280 V	∼48600 V

Harmony SSR → The new generation solid state relays

SSM solid state modular DIN rail mount relays

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/1.378 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, 18, and 90 mm width) with load output current of 6, 12, and 25 A

2 mm/0.472 in.



SSM1: 6 A single-phase SSR



SSM2: 6 A dual channel, single-phase SSR



SSM2,relays	
Control input voltage	Load output voltage
432V	∼24280 V





SSM3: 25 A three-phase SSR

SSM3 relays	
Control input voltage	Load output voltage
432V	∼48600 V
∼90140 V	\sim 48600 V
∼180280V	∼48600 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

SSP solid state panel mount relays

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.relays	-
Control input voltage	Load output voltage
==3.532 V	1150 V
332V	\sim 24300 V
432 V	∼48660 V
∼90280 V	∼24300 V ∼48660 V

SSP1: Single-phase panel mount SSR



SSP1.S.relays	
Control input voltage	Load output voltage
332V	∼24300 V
432 V	∼48660 V

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



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

 ${\it SSP3: Three-phase \ panel \ mount \ SSR}$

Simple, safe, and robust screw terminals

- > Simple and easy wiring; accepts wires with different kinds of terminations
- > Safe and fool-proof 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

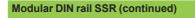
- Smart diagnostic features with built-in visual indicator and alarm output enables quick response to unexpected results and correct monitoring of SSR operation
- > A test button for easy debugging, testing, and commissioning

Simplified installation and mounting

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

Type of product		Slim interface SSR		Modular DIN rail SSR	
		Customer assembly (Relay and socket)	Pre-assembled (Relay with socket)		
		na. ⊕CE s-typicker		Account Manager Manage	
Number of phases		1		1	
Type of mounting		Plug-in PCB pins v	vith DIN rail mounted socket	DIN rail mounted	
Control input voltage	~	-	-	90280 V	
	=	312 V 1530 V 1630 V	412 V 1630 V	432 V 90280 V	
Output load voltage	~	24280 V	24250 V	48600 V	
	=	124 V 148 V	124 V 148 V	1150 V	
Output load current	~	2A		20,35 A for 22.5 mm/0.886 in. 40, 60 A for 45 mm/1.772 in.	
	=	0.1, 3.5 A		20,30 A for 22.5 mm/0.886 in.	
Type of switching	Zero voltage	Yes Yes		Yes	
	Random			Yes	
	DC	Yes		Yes	
Cooling		-		Built-in heat sink	
Degree of protection		IP 67 (encapsulation IP 20 (socket)	on)	IP 20	
LED indication		Yes (on socket)		Yes	
Solid state relay type		SSL (1) (2)		SSD1	
Pages		8		13	

⁽¹⁾ SSL slim relays and SSLZ sockets.



Panel mount SSR















A STATE		2011 4172 6173 6 6	() SPITAL 2000 31	977 477 287 3
1	1 (dual SSR)	3	1	3
DIN rail mounted	DIN rail mounted	DIN rail mounted	Panel mounted	Wall mounted
1836 V 90140 V 200265 V	-	90140 V 90280 V	90280 V	1836 V 90280 V
432 V	432 V	432 V	332 V 432 V	432 V
24280 V 48600 V	24280 V	48600 V	24300 V 48660 V	42660 V
160 V 1100 V	-	-	1150 V	-
6 A for 12 mm/0.472 in. 12 A for 18 mm/0.709 in.	6 A	25 A	10, 25, 50, 75, 90, 125 A	25, 50 A
6 A for 12 mm/0.472 in. 12 A for 18 mm/0.709 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 and 17	17	17	19	20



⁽²⁾ Pre-assembled SSL slim relays (relay + socket).

SSL solid state slim relays



Pre-assembled solid state relay



SSL relay

SSLZVA1 6A 250V Supply Voltage Suppl

Socket equipped with LED and protection circuit

Presentation of the range

SSL solid state relays offer the advantages of several input and output configurations for both AC and DC switching applications. Their compact size and modular design reduces space and allows easy mounting on the socket.

The plug-in type relays can be mounted directly on a PCB or with a socket on a standard 35 mm/1.378 in. DIN rail. The sockets are available in screw connector and spring terminal types.

SSL relays offer:

- A choice of relays and sockets to suit a range of operating voltages
- Zero voltage switching for resistive load and random switching for inductive load applications
- Simple maintenance as the relays can be held in place/released by locking/ unlocking the lever without disconnecting the socket wiring
- Socket with reverse polarity protection circuit and LED indicator for easy identification of control status

These relays are available in both pre-assembled (single reference) and customer assembled offers.

Relay description

SSL slim solid state relays

- 1 Relay with 1 N/O contact and any one of the following ratings:
- □ 24 V, 3.5 A
- \square 48 V ==, 100 mA
- □ 280 V ~, 2 A
- 2 4 flat, reinforced pins (PCB type)
- 3 5 mm/0.197 in. relay width for up to 3.5 A of load current

Socket description

Sockets for SSL slim solid state relays

- 4 5 female contacts for the relay pins
- 5 6.2 mm/0.244 in. socket width
- 6 Lever for locking or releasing the relay from its socket with clip-in marker legend
- 7 Wire connection by screw connectors or spring terminals
- 8 Built-in reverse polarity protection circuit and LED indicator
- 9 Locating slot for mounting on DIN rail

Harmony Solid State Relays SSL solid state slim relays



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	Α		kg/ <i>lb</i>		
DC Switching	4 to 12	1 to 24	3.5	SSL1D03JDPV (SSL1D03JD + SSLZVA1)	0.033/0.073		
Zero voltage switching	4 to 12	\sim 24 to 250	2	SSL1A12JDPV (SSL1A12JD+SSLZVA1)	0.033/0.073		
DC Switching	16 to 30	1 to 24	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	\sim 24 to 250	2	SSL1A12BDPV (SSL1A12BD+SSLZVA1)	0.033/0.073		
Random switching	16 to 30	\sim 24 to 250	2	SSL1A12BDRPV (SSL1A12BDR+SSLZVA1)	0.033/0.073		
Relays mounted on s	spring sockets (s	sold in lots of 30))				
DC Switching	4 to 12	1 to 24	3.5	SSL1D03JDPR (SSL1D03JD+SSLZRA1)	0.033/0.073		
DC Switching	16 to 30	1 to 24	3.5	SSL1D03BDPR (SSL1D03BD+SSLZRA1)	0.033/0.073		
Zero voltage switching	16 to 30	\sim 24 to 250	2	SSL1A12BDPR (SSL1A12BD+SSLZRA1)	0.033/0.073		
Random switching	16 to 30	\sim 24 to 250	2	SSL1A12BDRPR (SSL1A12BDR+SSLZRA1)	0.033/0.073		

Harmony Solid State Relays SSL solid state slim relays





Relays and sock	ets for custom	er assembly			
SSL single-phase so	lid state relays (so	old in lots of 12)			
Switching	Voltage range		Load current	Reference	Weight
	Control input	Load output	range		
	V	V	Α		kg/ <i>lb</i>
DC switching	3 to 12	1 to 24	3.5	SSL1D03JD	0.004/0.009
		1 to 48	0.1	SSL1D101JD	0.004/0.009
	=== 15 to 30	1 to 24	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	\sim 24 to 280	2	SSL1A12JD	0.004/0.009
	== 15 to 30	\sim 24 to 280	2	SSL1A12BD	0.004/0.009
Random switching	== 3 to 12	\sim 24 to 280	2	SSL1A12JDR	0.004/0.009
	15 to 30	\sim 24 to 280	2	SSL1A12BDR	0.004/0.009

Sockets equip	pped with LED and protection	on circuit (sold in	lots of 10)		
		Socket type			
		Screw connector		Spring terminals	
Control voltage	(Nominal) For use with relays	Unit reference	Weight	Unit reference	Weight
V			kg/lb		kg/lb
 5	SSL1D03JD SSL1D101JD SSL1A12JD SSL1A12JDR	SSLZVA1	0.029/0.063	SSLZRA1	0.029/0.063
 24	SSL1D03BD SSL1D101BD SSL1A12BD SSL1A12BDR	SSLZVA1	0.029/0.063	SSLZRA1	0.029/0.063

Harmony Solid State Relays SSL solid state slim relays



RSLZ2



RSL	<i>Z</i> 3

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

SSD solid state DIN rail relays

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: telescopic, clamp cage or standard screw) providing options as per the wiring preference.

Relay description

SSD1 relay, 22.5 mm/0.886 in. - Relay configuration

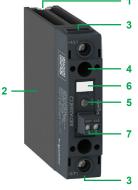
- 1 Locating slot for mounting on DIN rail
- 2 Built-in heat sink for heat dissipation
- 3 Control input connection terminals
- 4 Fixing hole for attaching relay to heat sink
- 5 LED input status indicator
- 6 Clip-in legend for easy identification
- 7 Load output connection terminals



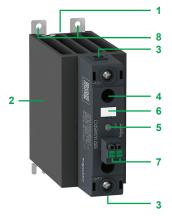
SSD1 single-phase solid state DIN rail relay, 22.5 mm

SSD1 relay, 22.5 mm/0.886 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



SSD1 single-phase solid state DIN rail contactor with pluggable spring input, 45 mm

SSD1 relay, 45 mm/1.771 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







SSD1D530BDC1

SSD1A335BDC2



SSD1A335M7C3



SSD1A345BDRC3



SSD1A360M7RC2

SSDZLN2

SSR_CP19006	DZL	В							
SSR_CP19007	2 DZL	3 N1	4	5	6	7	8	9	10
R_CP19008	12	13	14	15	16	17	18	19	20

SSD1 single-phase solid state relays (22.5 and 45 mm)							
Switching	Voltage ran	ge	Load	Configuration	Reference	Weight	
	Control	Load	current range				
	input	output	A			kg/lb	
DC	 432	 1150	20	Relay	SSD1D520BDC1	0.298/0.657	
switching			30	Relay	SSD1D530BDC1	0.298/0.657	
Zero	 432	~48600		Relay	SSD1A320BDC1	0.298/0.657	
voltage	102	• 10000	20	Contactor, Screw input connector	SSD1A320BDC2	0.301/0.664	
switching			20	Contactor, Spring input connector	SSD1A320BDC3	0.301/0.664	
			35	Relay	SSD1A335BDC1	0.298/0.657	
			35	Contactor, Screw input connector	SSD1A335BDC2	0.301/0.664	
			35	Contactor, Spring input connector	SSD1A335BDC3	0.301/0.664	
			45	Contactor, Screw input connector	SSD1A345BDC2	0.507/1.117	
			45	Contactor, Spring input connector	SSD1A345BDC3	0.507/1.117	
			60	Contactor, Screw input connector	SSD1A360BDC2	0.507/1.117	
			60	Contactor, Spring input connector	SSD1A360BDC3	0.507/1.117	
		~48600		Relay	SSD1A320M7C1	0.298/0.657	
	0 00200	- 10000	20	Contactor, Screw input connector	SSD1A320M7C2	0.301/0.664	
			20	Contactor, Spring input connector	SSD1A320M7C3	0.301/0.664	
			35	Relay	SSD1A335M7C1	0.298/0.657	
			35	Contactor, Screw input connector	SSD1A335M7C2	0.301/0.664	
			35	Contactor, Spring input connector	SSD1A335M7C3	0.301/0.664	
			45	Contactor, Screw input connector	SSD1A345M7C2	0.507/1.117	
			45	Contactor, Spring input connector	SSD1A345M7C3	0.507/1.117	
			60	Contactor, Screw input connector	SSD1A360M7C2	0.507/1.117	
			60	Contactor, Spring input connector	SSD1A360M7C3	0.507/1.117	
Random	 432	~48600		Relay	SSD1A320BDRC1		
switching		- 10111000	20	Contactor, Screw input connector	SSD1A320BDRC2		
			20	Contactor, Spring input connector	SSD1A320BDRC3		
			35	Relay	SSD1A335BDRC1		
			35	Contactor, Screw input connector	SSD1A335BDRC2		
			35	Contactor, Spring input connector	SSD1A335BDRC3		
			45	Contactor, Screw input connector	SSD1A345BDRC2		
			45	Contactor, Spring input connector	SSD1A345BDRC3		
			60	Contactor, Screw input connector	SSD1A360BDRC2		
			60	Contactor, Spring input connector	SSD1A360BDRC3		
	~90280	~48600		Relay	SSD1A320M7RC1		
	0 00111200	- 10111000	20	Contactor, Screw input connector	SSD1A320M7RC2		
			20	Contactor, Spring input connector	SSD1A320M7RC3		
			35	Relay	SSD1A335M7RC1		
			35	Contactor, Screw input connector	SSD1A335M7RC2		
			35	Contactor, Spring input connector	SSD1A335M7RC3		
			45	Contactor, Screw input connector	SSD1A345M7RC2		
			45	Contactor, Spring input connector	SSD1A345M7RC3		
			60	Contactor, Screw input connector	SSD1A360M7RC2		
			60	Contactor, Spring input connector	SSD1A360M7RC3		
Accesso	rios			F 9 par 20111130101			
Description		For use wi	ith	Sold in lots of	Unit reference	Weight	

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/0.472 in. width and 18 mm/0.709 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/1.378 in. DIN rail
- 5 Load output connection terminals
- 6 Mounting latch

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SSM2 single-phase dual channel modular relays, 18 mm

Relay description

SSM2 relays, 18 mm/0.709 in. width

- Built-in heat sink for heat dissipation
- 2 Load output connection terminals for Channel A
- Separate input voltage LED indicator in green
- Separate control input connection terminals
- Load output connection terminals for Channel B
- Mounting latch
- 7 Bracket for mounting on 35 mm/1.378 in. DIN rail



SSM3 single-phase modular relays, 90 mm

SSM3 relays, 90 mm/0.354 in. width

- 1 Lugs for panel mounting
- 2 Built-in heat sink for heat dissipation
- Control input connection terminals
- Control input voltage LED indicator in green
- Bracket for mounting on 35 mm/1.378 in. DIN rail
- Load output connection terminals





SSM1 singl	e-phase sol	lid state rel	ays (6 A	, 12 mm and 12	A, 18 mm)
Switching	Voltage range Control input		Load current range	Reference	Weight
	V	V	Α		kg/ <i>lb</i>
DC switching	 432	 160	6	SSM1D26BD	0.050/0.110
			12	SSM1D212BD	0.090/0.198
		1100	6	SSM1D36BD	0.050/0.110
			12	SSM1D312BD	0.090/0.198
Zero voltage switching	 432	~24280	6	SSM1A16BD	0.050/0.110
			12	SSM1A112BD	0.090/0.198
		∼48600	6	SSM1A36BD	0.050/0.110
			12	SSM1A312BD	0.090/0.198
	∼1836	~24280	6	SSM1A16B7	0.050/0.110
			12	SSM1A112B7	0.090/0.198
		∼48600	12	SSM1A312B7	0.090/0.198
	∼90140	~24280	6	SSM1A16F7	0.050/0.110
			12	SSM1A112F7	0.090/0.198
		∼48600	12	SSM1A312F7	0.090/0.198
	~ 200265	~24280	6	SSM1A16P7	0.050/0.110
			12	SSM1A112P7	0.090/0.198
Random switching	 432	~24280	6	SSM1A16BDR	0.050/0.110
			12	SSM1A112BDR	0.090/0.198
		∼48600	6	SSM1A36BDR	0.050/0.110
			12	SSM1A312BDR	0.090/0.198
	∼ 1836	~24280	12	SSM1A112B7R	0.090/0.198
		∼48600	12	SSM1A312B7R	0.090/0.198
	∼90140	~24280	12	SSM1A112F7R	0.090/0.198
		∼48600	12	SSM1A312F7R	0.090/0.198
	~ 200265	~24280	12	SSM1A112P7R	0.090/0.198
		~48600	12	SSM1A312P7R	0.090/0.198



SSM2A16BDR



SSM3A325F7



SSM2 sing	gle-phase	solid state	relays,	dual channel (6	6 A, 18 mm)
Switching	Voltage range		Load	Reference	Weight
	Control input	Load output	current range		
	V	V	Α		kg/lb
Zero voltage switching	 432	~24280	6	SSM2A16BD	0.090/0.198
Random switching	 432	~24280	6	SSM2A16BDR	0.090/0.198

Switching	Voltage rang	Voltage range		Reference	Weight
	Control input	Load output	current range		
	V	٧	Α		kg/ <i>lb</i>
Zero voltage switching	 432	∼48600	25	SSM3A325BD	0.740/1.631
	~90140	∼48600	25	SSM3A325F7	0.740/1.631
	~180280	~48600	25	SSM3A325P7	0.740/1.631
Random switching	 432	~48600	25	SSM3A325BDR	0.740/1.631

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

SSP solid state panel mount relays



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 \sim 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

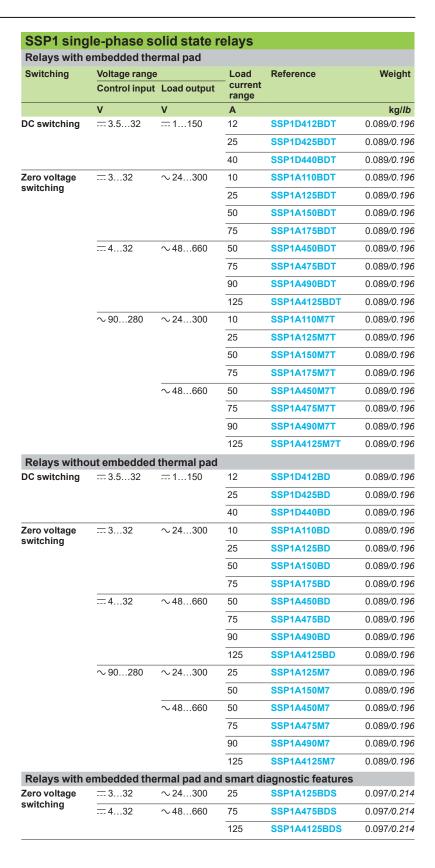
SSP3 three-phase panel mount relays

- 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

SSP solid state panel mount relays



SSP1D425BD





SSP1A125BDS

Harmony Solid State Relays SSP solid state panel mount relays



SSP3A225P7T

SSP3 thre	e-phase so	lid state re	lays		
	embedded the				
Switching	Voltage range	Voltage range		Reference	Weight
	Control Input	Load Output	current range		
	V	V	Α		kg/ <i>lb</i>
Zero voltage	 432	∼42660	25	SSP3A225BDT	0.370/0.816
switching			50	SSP3A250BDT	0.370/0.816
	~ 1836	∼42660	50	SSP3A250B7T	0.370/0.816
	~90280	~42660	25	SSP3A225P7T	0.370/0.816
			50	SSP3A250P7T	0.370/0.816
Random	 432	∼42660	25	SSP3A225BDRT	0.370/0.816
switching			50	SSP3A250BDRT	0.370/0.816
	~ 90280	~42660	50	SSP3A250P7RT	0.370/0.816

Harmony Solid State Relays SSP solid state panel mount relays





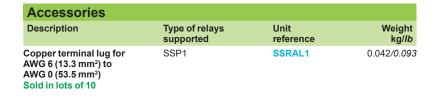


SSRHP10

Heat sink	s for customer as	ssembly			
Mounting	Number and type of relays supported	Surface area	Thermal resistance	Reference	Weight
		cm²/in²	°C/W		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



SSRHP07





SSRAL1

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