Catalog | March 2021

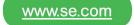


Harmony Solid State Relays

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







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



Relay configuration

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



SSD1: 45 and 60 A single-phase SSR

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

Note: The SSD1 range references will be substituting the SSM1 range references for 22.5 mm/0.886 in. width (20 A, 30 A) and 45 mm/1.771 in. width (45 A, 55 A).

Harmony SSR → The new generation solid state relays

Harmony Solid State Relays

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

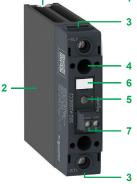
- 1 Locating slot for mounting on DIN rail
- 2 Built-in heat sink for heat dissipation
- 3 Control input connection terminals
- 4 Fixing hole for attaching relay to heat sink
- 5 LED input status indicator
- 6 Clip-in legend for easy identification
- 7 Load output connection terminals



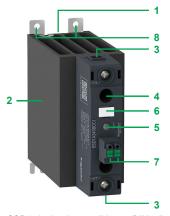
SSD1 single-phase solid state DIN rail relay, 22.5 mm

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

Harmony Solid State Relays SSD solid state DIN rail relays







SSD1D530BDC1

SSD1A335BDC2



SSD1A335M7C3



SSD1A345BDRC3



SSD1A360M7RC2



SSR_CP1900	1		12	13	14	15	16	17	18	19	20	
SSR	1	11	12	13								
	3	SSL	DZL	N2								

SSD1 single-phase solid state relays (22.5 and 45 mm) (1)						
Switching				Configuration	Reference	Weight
	Control input	Load output	current range			
	٧	V	Α			kg/lb
DC	 432	 1150	20	Relay	SSD1D520BDC1	0.298/0.657
switching			30	Relay	SSD1D530BDC1	0.298/0.657
Zero	 432	~48600	20	Relay	SSD1A320BDC1	0.298/0.65
voltage switching			20	Contactor, Screw input connector	SSD1A320BDC2	0.301/0.664
			20	Contactor, Spring input connector	SSD1A320BDC3	0.301/0.664
			35	Relay	SSD1A335BDC1	0.298/0.65
			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	0.507/1.11
			45	Contactor, Spring input connector	SSD1A345BDC3	0.507/1.11
			60	Contactor, Screw input connector	SSD1A360BDC2	0.507/1.11
			60	Contactor, Spring input connector	SSD1A360BDC3	0.507/1.11
	≂90280	∼48600	20	Relay	SSD1A320M7C1	0.298/0.65
			20	Contactor, Screw input connector	SSD1A320M7C2	0.301/0.66
			20	Contactor, Spring input connector	SSD1A320M7C3	0.301/0.66
			35	Relay	SSD1A335M7C1	0.298/0.65
			35	Contactor, Screw input connector	SSD1A335M7C2	0.301/0.66
			35	Contactor, Spring input connector	SSD1A335M7C3	0.301/0.66
			45	Contactor, Screw input connector	SSD1A345M7C2	0.507/1.11
			45	Contactor, Spring input connector	SSD1A345M7C3	0.507/1.11
			60	Contactor, Screw input connector	SSD1A360M7C2	0.507/1.11
			60	Contactor, Spring input connector	SSD1A360M7C3	0.507/1.11
Random	 432	∼48600	20	Relay	SSD1A320BDRC1	0.298/0.65
switching			20	Contactor, Screw input connector	SSD1A320BDRC2	0.301/0.66
			20	Contactor, Spring input connector	SSD1A320BDRC3	0.301/0.66
			35	Relay	SSD1A335BDRC1	0.298/0.65
			35	Contactor, Screw input connector	SSD1A335BDRC2	0.301/0.66
			35	Contactor, Spring input connector	SSD1A335BDRC3	0.301/0.66
			45	Contactor, Screw input connector	SSD1A345BDRC2	0.507/1.11
			45	Contactor, Spring input connector	SSD1A345BDRC3	0.507/1.11
			60	Contactor, Screw input connector	SSD1A360BDRC2	0.507/1.11
			60	Contactor, Spring input connector	SSD1A360BDRC3	0.507/1.11
	≂90280	∼48600	20	Relay	SSD1A320M7RC1	0.298/0.65
			20	Contactor, Screw input connector	SSD1A320M7RC2	0.301/0.66
			20	Contactor, Spring input connector	SSD1A320M7RC3	0.301/0.66
			35	Relay	SSD1A335M7RC1	0.298/0.65
			35	Contactor, Screw input connector	SSD1A335M7RC2	0.301/0.664
			35	Contactor, Spring input connector	SSD1A335M7RC3	0.301/0.664
			45	Contactor, Screw input connector	SSD1A345M7RC2	0.507/1.11
			45	Contactor, Spring input connector	SSD1A345M7RC3	0.507/1.117
			60	Contactor, Screw input connector	SSD1A360M7RC2	0.507/1.117
			60	Contactor, Spring input connector	SSD1A360M7RC3	0.507/1.117
Accesso	ries					
Description		For use wi	ith	Sold in lots of	Unit reference	Weight

		, , , , ,		
Accessories				
Description	For use with	Sold in lots of	Unit reference	Weight kg/lb
Clip-in Legends, Blank strip	All SSD1 solid state relays	10	SSDZLB	0.002/0.004
Clip-in Legends, Numbered strip (1 to 10)	All SSD1 solid state relays	10	SSDZLN1	0.002/0.004
Clip-in Legends, Numbered strip (11 to 20)	All SSD1 solid state relays	10	SSDZLN2	0.002/0.004

⁽¹⁾ The SSD1 range references will be substituting the SSM1 range references for 22.5 mm/0.886 in. width (20 A, 30 A) and 45 mm/1.771 in. width (45 A, 55 A).