Harmony 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
- > 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
- > Optimized modular design available in various sizes (11, 18, 22.5, 45 and 90 mm width) with load output current of 6, 12, 20, 30, 45, and 55 A





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 ~48600 V				





SSM1: 20 and 30 A single-phase SSR



SSM1: 45 and 55 A single-phase SSR

į	_SSM1.relays	
	Control input voltage	Load output voltage
	432V	∼ 24280 V ∼48660 V
ı	332V	∼24280 V
	∼90140 V ∼90280 V	∼24280 V ∼48660 V



SSM3: 25 A three-phase SSR

SSM3.relays	
Control input voltage	Load output voltage
432V	∼48600 V
∼90140 V	∼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 55 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

Harmony Solid State Relays

SSM solid state modular DIN rail relays

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, 20, 30, 45, and 55 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

- 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
- Mounting latch



SSM1 single-phase modular relays, 22.5 mm

SSM1 relays, 22.5 mm/0.886 in. (20 A, 30 A) width and 45 mm/1.771 in. (45 A, 55 A) 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

Harmony Solid State Relays SSM solid state modular DIN rail relays



SSM2 single-phase dual channel modular relays, 18 mm

Relay description

SSM2 relays, 18 mm/0.709 in. width

- 1 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

Harmony Solid State Relays SSM solid state modular DIN rail relays





SSM1 single	e-phase sol	id state rel	ays (6 A,	12 mm and 12	A, 18 mm)
Switching	Voltage range Control input		Load current range	Reference	Weight
	V	V	A		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	6	SSM1A16B7R	0.050/0.110
			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

Harmony Solid State Relays SSM solid state modular DIN rail relays





	gle-phase solid state re				
Switching	Voltage range		Load — current	Reference	Weight
	Control input	Load output	range		
	V	V	Α		kg/lb
Zero voltage switching	 432	~24280	20	SSM1A120BD	0.280/0.617
			30	SSM1A130BD	0.280/0.617
	 332	~24280	45	SSM1A145BD	0.476/1.049
	 432	∼48660	30	SSM1A430BD	0.280/0.617
			45	SSM1A445BD	0.476/1.049
			55	SSM1A455BD	0.476/1.049
	~90280	~24280	20	SSM1A120M7	0.280/0.617
			30	SSM1A130M7	0.280/0.617
		~48660	30	SSM1A430M7	0.280/0.617
	~90140	∼48660	45	SSM1A445F7	0.476/1.049



SSM2A36BDR



SSM3A325F7

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		AC-91 (RC 80947-4-5) 30 - 149 VAC PK		Schneider Electric
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RS_CP20737		
	SSRAC200	1

SSM2 sing	gle-phase	solid state	relays, o	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
		~48600	6	SSM2A36BDR	0.090/0.198

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SSM1A455F7

0.476/1.049

Switching	Voltage range		Load	Reference	Weight
	Control input	Load output	range		
	V	V	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, SSM2A36BDR	SSRAC200	0.055/0.121

⁽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).