Basic Type Integrated Heat Dissipation

Solid State Relay SSR

Optocoupler isolation | Dielectric strength | Heat dissipation



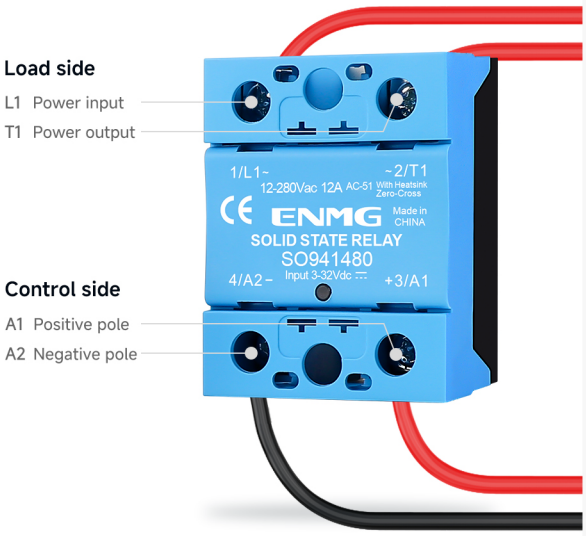
All-Electronic Structure

Composed of microelectronic circuits, discrete electronic components and power electronic devices (no mechanical parts), it works in high-shock/vibration environments for contactless,spark-free switching (on/off).

High isolation
High-intensity optocoupler

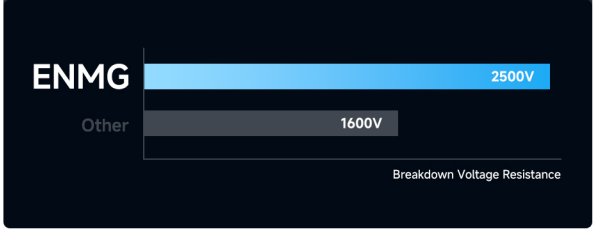
Spark-free
No mechanical action

Noiseless
Without interference



Breakdown Voltage Resistance

Under hazardous electrical conditions, the SSR will fail sacrificially prior to protected equipment damage.



Model Selection

1.Control method

DC-AC DC-DC

2.Calculate the magnitude of electric current

Equipment current ÷ Coefficient = Selection current

Selection current × Coefficient = Equipment current

Load type	Resistance	Electric heating wire	Incandescent lamp	Electromagnet	Transformer	Single-phase motor
Coefficient	0.6	0.5	0.4	0.25	0.25	0.15

*Recommended derating factors for load steady-state current vs. SSR rated output current (room temperature).For reference only!

3.Cooling method

Basic type Integrated heat dissipation

For load current >10A, heat sink must be installed for basic type.
Apply thermal grease between the solid-state relay baseplate and the heat sink.



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SO8/9

Single-Phase Basic Type





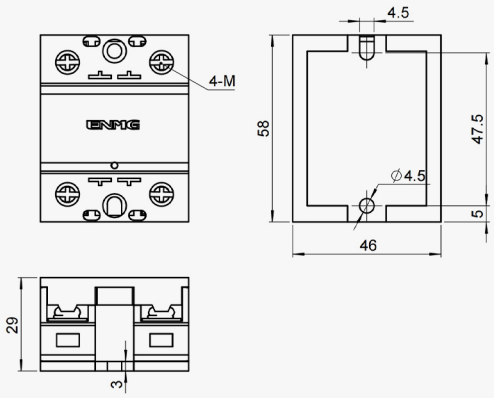


Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	1200V	3.5~32VDC 10~30mA	24~510VAC	35A	SO863070
				50A	SO865070
				75A	SO867070
				95A	SO868070
				125A	SO869070
	600V	3~32VDC 10~30mA	12~280VAC	12A	SO941480
				25A	SO942480
				35A	SO943480
	1200V	3.5~32VDC 10~30mA	24~600VAC	50A	SO965480
				75A	SO967480
				95A	SO968480
				125A	SO969480

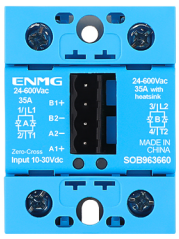
Overall Dimensions

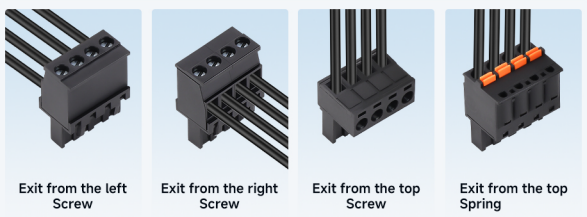
*Unit: mm.The dimensions are measured manually,so there may be deviations.
Please refer to the actual product.



SOB

Single-Phase Dual-Channel&Control





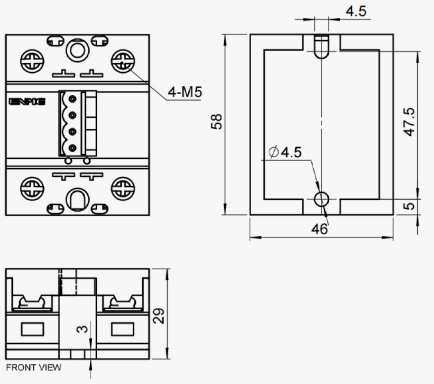
4 Modes, standard configuration with left outlet

Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	1200V	10~30VDC 10~30mA	24~600VAC	35A	SOB963660
				50A	SOB965660
				70A	SOB967660

Overall Dimensions

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SDR

Single-Phase Integrated Heat Dissipation



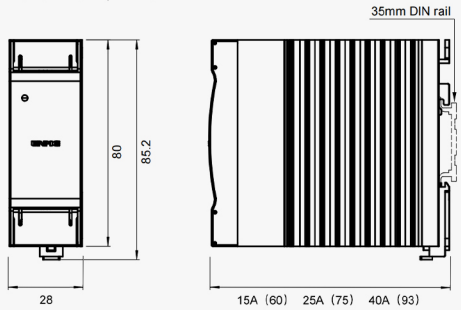


Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	600V	5~24VDC 30±5mA	24~280VAC 47~63Hz	15A	SDR15A2032
				25A	SDR25A2032
				40A	SDR40A2032
	800V		48~480VAC 47~63Hz	15A	SDR15A3032
				25A	SDR25A3032
				40A	SDR40A3032
DC-DC Random triggering	60V		5~60VDC	15A	SDR15D6132
				25A	SDR25D6132
				40A	SDR40D6132

Overall Dimensions

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s-SDR

Single-Phase Integrated Heat Dissipation



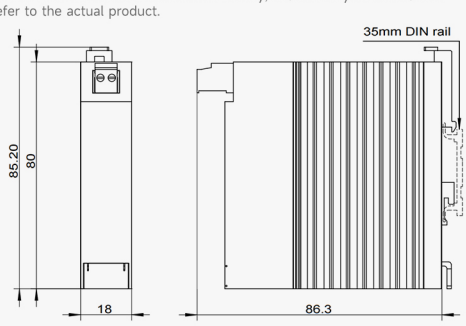


Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	600V	5~24VDC 30±5mA	24~280VAC 47~63Hz	15A	s-SDR15A2032
				25A	s-SDR25A2032
	800V		48~480VAC 47~63Hz	15A	s-SDR15A3032
				25A	s-SDR25A3032
DC-DC Random triggering	60V		5~60VDC	15A	s-SDR15D6132
				25A	s-SDR25D6132

Overall Dimensions

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TNR

Three-Phase Basic Type





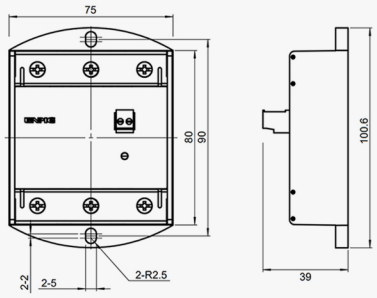


Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	800V	5~24VDC 30±5mA	48~480VAC 47~63Hz	15A	TNR15A3032
				25A	TNR25A3032
				40A	TNR40A3032

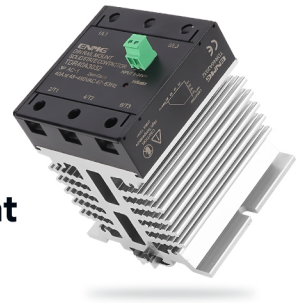
Overall Dimensions

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Please refer to the actual product.



TDR

Three-Phase Integrated Heat Dissipation



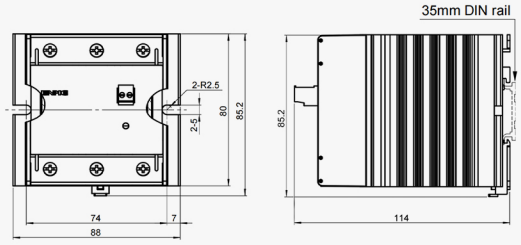


Selection Table

Control type	Peak inverse voltage	Control voltage/current	Load voltage	Load current	Model
DC-AC Zero-crossing triggering	800V	5~24VDC 30±5mA	48~480VAC 47~63Hz	40A	TDR40A3032

Overall Dimensions

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