

Твердотельные реле серии SR1

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
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Санкт-Петербург (812)309-46-40
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Смоленск (4812)29-41-54
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Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
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Серии SR1

Твердотельные реле от компании Autonics отличается превосходной диэлектрической прочностью — 4000 В перем. тока (кроме серии SRS1) и доступны в следующих конфигурациях: с разъемом, со съемным радиатором, с встроенным радиатором, с компактным съемным радиатором и даже с аналоговым входом. Они подходят для широкого спектра областей применения, в том числе для контроля мощности нагревателей, полупроводникового оборудования, промышленных машин, электродвигателей и т. д.

Особенности

- Доступны в стандартном и компактном исполнениях.
- Превосходная диэлектрическая прочность — 4000 В перем. тока.
- Улучшенная эффективность теплозащиты благодаря керамической подложке.
- Поддержка функций переключения при пересечении нуля и случайного переключения.
- СИД (зеленый) индикации состояния входа.

Информация для заказа

SR	1	-	1	4	20	R
Item	Control phase		Input voltage(Rated)	Load voltage(Rated)	Rate load current (Resistive load)	Function
SR	1		1	2	15	No mark
	4		4	4	25	Zero cross turn-on
	1		1	2	40	Random turn-on
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			4	4	20	
			1	2	15	

Технические характеристики

● Input

		4-30VDC input voltage	90-240VAC input voltage
Input voltage range		4-32VDC	85-264VACrms(50/60Hz)
Max. input current		9mA(Zero cross), 13mA(Random turn-on)	7mArms(240VACrms)
Pick-up voltage		4VDC	85VACrms
Drop-out voltage		1VDC	10VACrms
Turn-on time	Zero cross	0.5 cycle of load source + 1ms	1.5 cycle of load source + 1ms
	Random turn-on	Max. 1ms	
Turn-off time		0.5 cycle of load source + 1ms	1.5 cycle of load source + 1ms

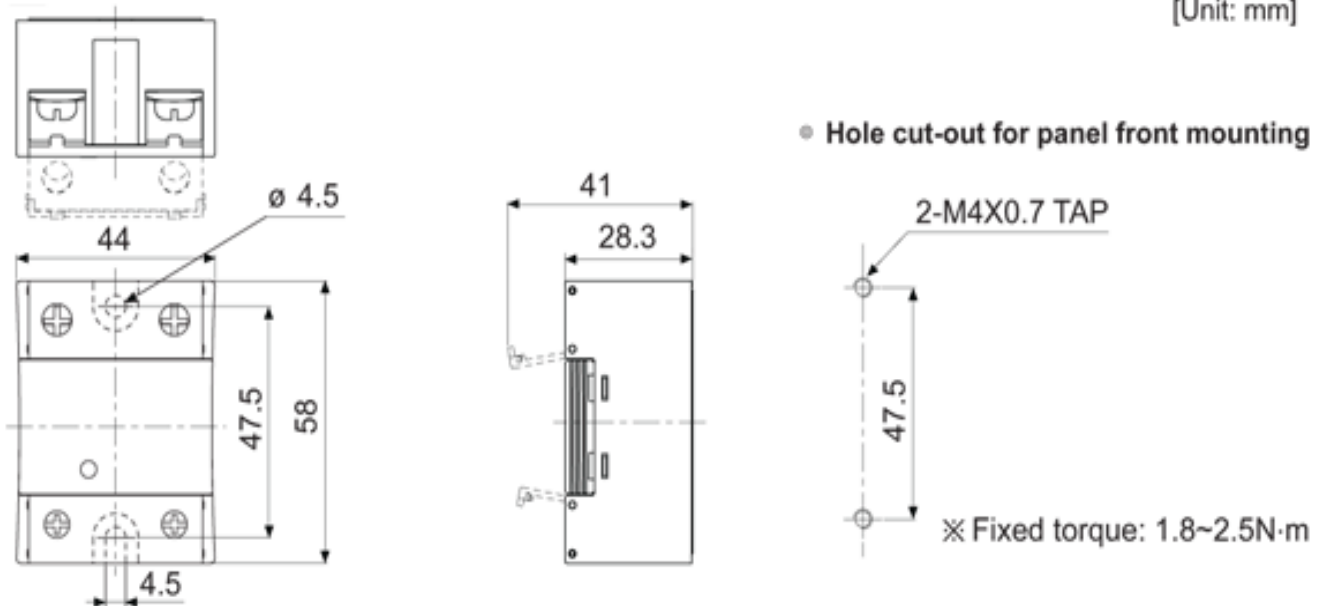
● Output

		24-240VAC load voltage					48-480VAC load voltage				
Load voltage range		24-264VACrms(50/60Hz)					48-528VACrms(50/60Hz)				
Rated load current Ta=25°C	Resistive load (AC-51)	15Arms	25Arms	40Arms	50Arms	75Arms	15Arms	25Arms	40Arms	50Arms	75Arms
	Motor load (AC-53a)	-					5Arms	8Arms		15Arms	
Min. load current		0.15Arms	0.2Arms		0.5Arms		0.5Arms				
Max. 1cycle surge current(60Hz)		190A	270A	330A	1000A		300A	500A		1000A	
Max. non-repetitive surge current (I ² t, t=8.3ms)		150A ² s	300A ² s	500A ² s	4000A ² s		350A ² s	1000A ² s		4000A ² s	
Peak voltage (non-repetitive)		600V					1200V(Zero cross), 1000V(Random turn-on)				
Leakage current(Ta=25°C)		Max. 10mArms									
Output on voltage drop [Vpk] (Max. load current)		Max. 1.6V									
Static off-state dv/dt		500V/μs									

※ For controlling motor load, use the product which load voltage range is within 48-480VACrms.

Размеры

[Unit: mm]



※The above specifications are subject to change without notice.

Руководство пользователя

1. Please attach a heatsink and ventilate for smooth convection current. If not, congested heat transfer may cause product failure or malfunction.
2. For mounting multiple SSR, please keep certain installation intervals for heat prevention. For horizontal installation (when the heights of input part and output part are equal), it is recommended to apply less than 50% of the rated load current.
3. Make sure do not touch the heatsink or the unit body while power is supplied or right after load power is turned OFF. If not, it may cause a burn.
4. Connect the proper cable for the rated load current with output terminal.
5. Use rapid fuse of which I^2t is under 1/2 of SSR I^2t in order to protect the unit from load's short-circuit current.
6. In case that load's current is lower than SSR min. load current, connect dummy resistance to the load in parallel so as to make load's current higher than SSR min. load current.
7. When selecting phase control with random turn-on model, install the noise filter between load and load's source.
8. Make sure that the screw on output terminal is tightly fastened. Using the unit with loose bolt may cause product failure or malfunction.
9. Do not touch the load's terminal even if output is OFF. It may cause an electric shock.
10. Proper application environment (Avoid following environments to install)
 - ① Where temperature/humidity is beyond the specification
 - ② Where dew condensation occurs due to temperature change
 - ③ Where inflammable or corrosive gas exists
 - ④ Where direct rays of light exist
 - ⑤ Where severe shock, vibration or dust exists
 - ⑥ Where near facilities generating strong magnetic forces or electric noise
11. Installation environment
 - ① It shall be used indoor
 - ② Altitude Max. 2,000m
 - ③ Pollution Degree 2
 - ④ Installation Category III

Техника безопасности

※Please keep "Caution for your safety" to avoid accidents or damages as using it correctly.

※The meaning of 'Warning' and 'Caution' is as follows;

⚠ Warning In case a serious injury or dead may be occurred.

⚠ Caution In case a little injury or damage of this unit may be occurred.

※The meaning of the mark on the product and manual is as follows;

⚠ is a caution mark for danger in special condition.

⚠ Warning

1. In case of using this unit with machineries(Ex: Nuclear power control, medical equipment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc), it is required to install fail-safe device.

It may cause a fire, human injury or damage to property.

2. Install the unit on a panel.

It may give an electric shock.

3. Do not connect, inspect or repair when power is on.

It may give an electric shock.

4. Do not disassemble the case. Please contact us if it is required.

It may cause an electric shock or a fire.

⚠ Caution

1. This unit shall not be used outdoors.

It might shorten the life cycle of the product or give an electric shock.

2. Please observe the rated specifications.

It might shorten the life cycle of the product and cause a fire.

3. In cleaning unit, do not use water or an oil-based solvent and please use dry towels.

It may cause an electric shock or a fire.

4. Do not use this unit in place where there are flammable or explosive gas, humidity, direct rays, radiant heat, vibration and impact etc.

It may cause a fire or an explosion.

5. Do not inflow dust or wire dregs into the unit.

It may cause a fire or a malfunction.

6. Do not touch SSR output terminals right after power switch OFF.

It may cause an electric shock due to an electric charge in snubber circuit.

Autonics

Sensors & Controllers