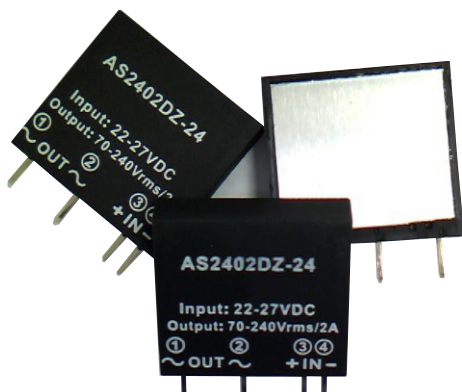


AC SOLID STATE RELAY(PCB Mount)



FEATURES:

1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Zero crossing AC output can reduce EMI noise.
3. use metal PCB for better heat dissipation
4. mini SIP package for PCB mount

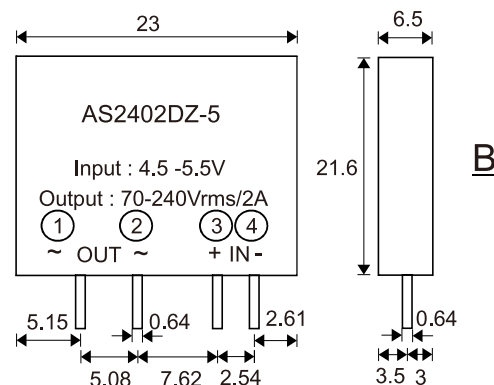
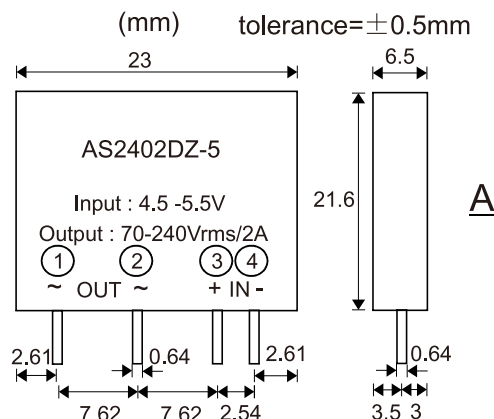
pin compatible to electromagnet relay :

TYCO: PCN Series

HONFA : HF49FD Series

Order message:

AS2402DZ-□-□
 OUT pitch(A, B)
 Control Voltage (5, 12, 24V)



Input Specifications	
Control Voltage range (Vdc)	5、12、24V
Operating range Voltage	5V : 4.5V - 5.5V 12V : 11V - 13V 24V : 22V - 27V
Current	6mA(Max.)

General Characteristics	
Response time	½ cycle + 1mSec
Input to output dielectric strength	> 10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C

Output Specifications	AS2402DZ-5	AS2402DZ-12	AS2402DZ-24
Voltage Range (Vac)	70-240 Vrms		
Peak voltage (t=1min.)	600Vdc		
Maximum current (Arms)	2A		
Max.1-cycle surge (50Hz)	120A		
I ² t (t=10ms)A ² s	72A ² s		
Max. on-state voltage drop at I _{max} and T=25°C	1.5V		

DC SOLID STATE RELAY(PCB Mount)



FEATURES:

1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. use metal PCB for better heat dissipation
3. mini SIP package for PCB mount

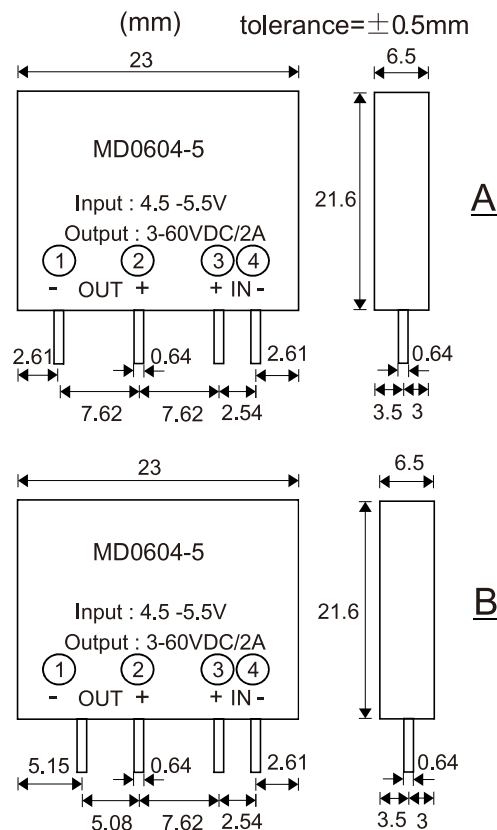
pin compatible to electromagnet relay :

TYCO: PCN Series

HONFA □ HF49FD Series

Order message:

MD0602-□-□
 — OUT pitch(A, B)
 — Control Voltage (5、12、24V)

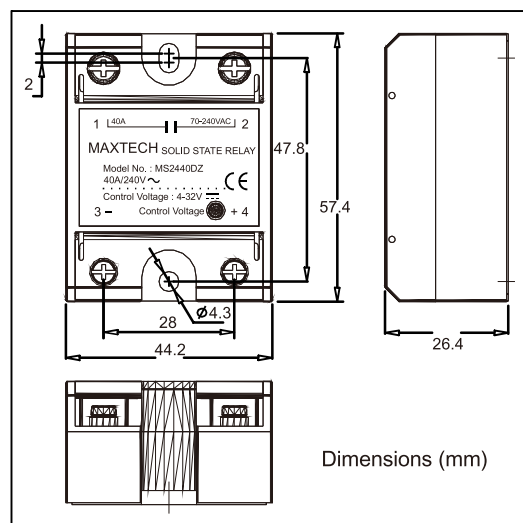


Input Specifications	
Control Voltage range (Vdc)	5、12、24V
Operating range Voltage	5V : 4.5V - 5.5V 12V : 11V - 13V 24V : 22V - 27V
Current	17mA (Max.)

General Characteristics	
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C

Output Specifications	MD0604-05	MD0604-12	MD0604-24
Voltage range	3-60V		
Peak voltage	60V		
Maximum current (T=25°C)	2A		
Thermal Resistance	3.75		
Max on-state voltage drop at I _{max} and T=25°C	0.14V		
on-state Resistance	70mR		
Current(pulsed)(10mS)	96A		
Response time (Trun On)	<1m Sec		
Response time (Trun Off)	<1m Sec		

AC SOLID STATE RELAY



FEATURES:

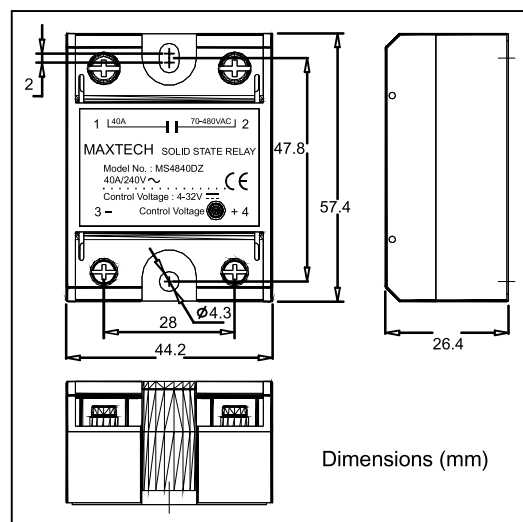
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
- 6.Zero crossing AC output can reduce EMI noise.

Input Specifications	
Control Voltage range (Vdc)	4-32V
Current	5mA(at 4V) 15 mA(at 32V)
Maximum pickup voltage	4V
Minimum dropout voltage	2V

General Characteristics	
Response time	1/2 cycle + 1mSec. (50Hz)
Input to output dielectric strength	> 10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C

Output Specifications	MS2410DZ	MS2415DZ	MS2420DZ	MS2425DZ	MS2440DZ
Voltage Range (Vac)	70-340 Vrms				
Peak voltage (t=1min.)	600 V				
Maximum current (Arms)	10 A	15 A	20 A	25 A	40 A
Max.1-cycle surge (50Hz)	100 A	160 A	210 A	260 A	410 A
I ² t (t=10ms)A ² s	78A ² S	144A ² S	200A ² S	340A ² S	880A ² S
Maximum off-state leakage (T=25°C)	1.8mArms (at 120VAC) 3.5mArms (at 240VAC) 5mArms (at 340VAC)				
Max. on-state voltage drop	1.5V (at I _{max} and T=25°C)				
Thermal resistance (junction to baseplate)	2.1	2.05	0.9	0.9	0.9

AC SOLID STATE RELAY



FEATURES:

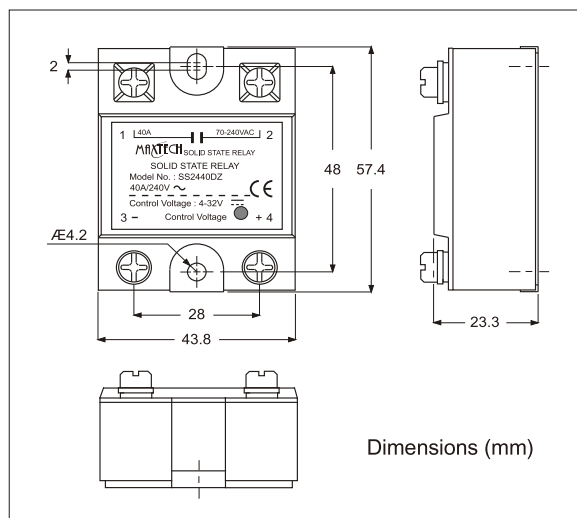
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
- 6.Zero crossing AC output can reduce EMI noise.

Input Specifications	
Control Voltage range (Vdc)	4-32V
Current	5mA(at 4V) 15 mA(at 32V)
Maximum pickup voltage	4V
Minimum dropout voltage	2V

General Characteristics	
Response time	1/2 cycle + 1mSec. (50Hz)
Input to output dielectric strength	> 10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C

Output Specifications	MS4810DZ	MS4815DZ	MS4820DZ	MS4825DZ	MS4840DZ
Voltage Range (Vac)	70-560 Vrms				
Peak voltage (t=1min.)	800 V				
Maximum current (Arms)	10 A	15 A	20 A	25 A	40 A
Max. 1-cycle surge (50Hz)	100 A	160 A	210 A	260 A	410 A
I ² t (t=10ms)A ² s	78A ² S	144A ² S	200A ² S	340A ² S	880A ² S
Maximum off-state leakage (T=25°C)	3.9mArms (at 380VAC) 5mArms (at 480VAC) 5.8mArms (at 560VAC)				
Max. on-state voltage drop at I _{max} and T=25°C	1.5V (at I _{max} and T=25°C)				
Thermal resistance (junction to baseplate)	2.1	2.05	0.9	0.9	0.9

AC SOLID STATE RELAY



FEATURES:

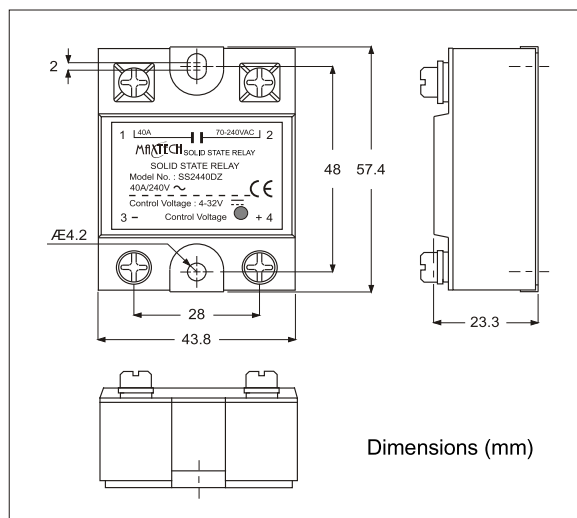
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vdc)	4-32 Vdc
Current	8mA(4Vdc)~10mA(32Vdc)
Maximum pickup voltage	4.0 V Max
Minimum dropout voltage	2.0 V Min

General Characteristics	
Response time	½ cycle + 1mSec
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Input/Output capacitance	< 10pf
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SS2410DZ	SS2415DZ	SS2420DZ	SS2425DZ	SS2440DZ
Voltage Range (Vac)	70-240 Vrms				
Peak voltage (t=1min.)	600 Vdc				
Maximum current (Arms)	10A	15A	20A	25A	40A
I ² t (t=10ms)A ² s	126A/ 66A ² S	160A/ 106A ² S	220A/ 201A ² S	250A/ 206A ² S	400A/ 666A ² S
Maximum off-state leakage (T=25°C)	8 mA rms (at Vmax and T=25°C)				
Max. on-state voltage drop at Imax and T=25°C	1.6V				
Thermal resistance (junction to baseplate)	2.4	2.2	2.1	2.1	1.0

AC SOLID STATE RELAY



FEATURES:

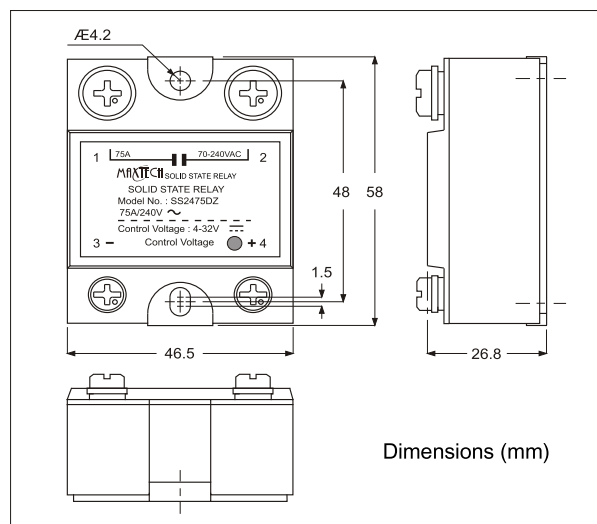
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vdc)	4-32 Vdc
Current	8mA(4Vdc)~15mA(32Vdc)
Maximum pickup voltage	4.0 V Max
Minimum dropout voltage	2.5 V Min

General Characteristics	
Response time	<1/2 cycle + 1mSec
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Input/Output capacitance	< 10pf
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SS4810DZ	SS4825DZ	SS4840DZ
Voltage Range (Vac)	70-480 Vrms		
Peak voltage (t=1min.)	1200 V		
Maximum current (Arms)	10A	25A	40A
I ² t (t=10ms)A ² s	160A/ 106A ² S	250A/ 260A ² S	400A/ 666A ² S
Maximum off-state leakage (T=25°C)	5.8 mArms (at Vmax and T=25°C)		
Max. on-state voltage drop at Imax and T=25°C	1.6V		
Thermal resistance (junction to baseplate)	2.1	2.1	2.1

AC SOLID STATE RELAY



FEATURES:

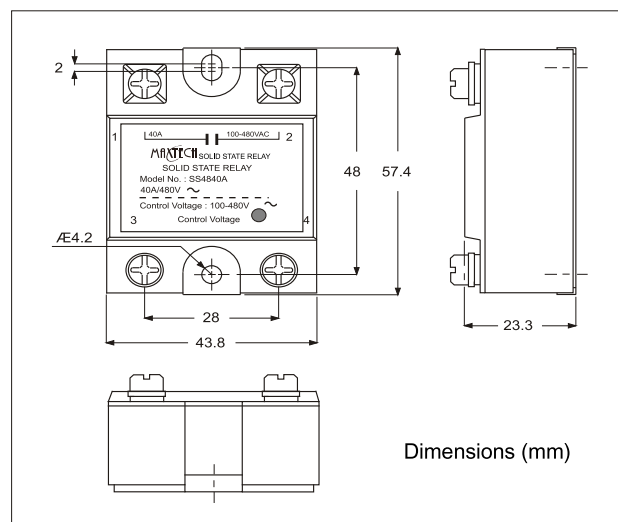
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vdc)	4-32 Vdc
Current	8mA(4Vdc)~10mA(32Vdc)
Maximum pickup voltage	4.0 V Max
Minimum dropout voltage	3.0 V Min

General Characteristics	
Response time	<1/2 cycle + 1mSec
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	150g

Output Specifications	SS2465DZ	SS2475DZ	SS4865DZ	SS4875DZ
Voltage Range (Vac)	70-240 Vrms		70-480 Vrms	
Peak voltage (t=1min.)	600 Vdc		1000 Vdc	
Maximum current (Arms)	65A	75A	65A	75A
I ² t (t=10ms)A ² s	650A/ 1750A ² S	950A/ 3760A ² S	650A/ 1750A ² S	950A/ 3760A ² S
Maximum off-state leakage (T=25°C)	15 mArms (at Vmax and T=25°C)			
Max. on-state voltage drop at I _{max} and T=25°C	1.6V			
Thermal resistance (junction to baseplate)	0.9	0.75	0.9	0.75

AC SOLID STATE RELAY



FEATURES:

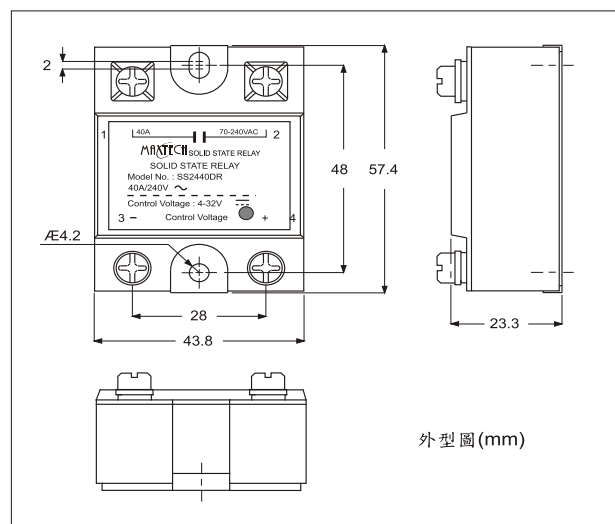
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vac)	70-240 Vac
Current	2 ~ 5 mA
Maximum pickup voltage	70 V ac
Minimum dropout voltage	40 V ac

General Characteristics	
Response time	$\frac{2}{3}$ cycle + 1mSec
Input to output dielectric strength	$>10^8$ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Input/Output capacitance	< 10 pf
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SS2410A	SS2415A	SS2420A	SS2425A	SS2440A
Voltage Range (Vac)	70-240 Vrms				
Peak voltage (t=1min.)	1000 Vdc				
Maximum current (Arms)	10A	15A	20A	25A	40A
I^2t (t=10ms)A ² s	126A/ 66A ² S	160A/ 106A ² S	220A/ 201A ² S	250A/ 206A ² S	400A/ 666A ² S
Maximum off-state leakage (T=25°C)	8 mArms (at Vmax and T=25°C)				
Max. on-state voltage drop at Imax and T=25°C	1.6V				
Thermal resistance (junction to baseplate)	3.1	2.8	1.7	1.5	1.3

AC SOLID STATE RELAY



FEATURES:

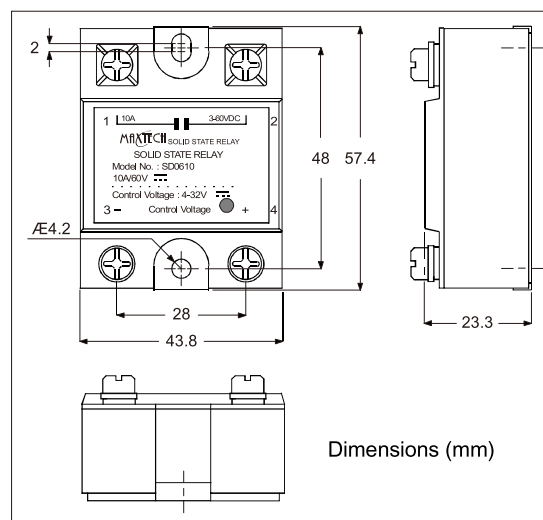
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vdc)	3-32 Vdc
Current	8mA(4Vdc)~15mA(32Vdc)
Maximum pickup voltage	3 V Max
Minimum dropout voltage	2 V Min

General Characteristics	
Response time	10uSec.
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output to baseplate isolation voltage	2500 Vrms
Input/Output capacitance	< 10pf
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SS2410DR	SS2415DR	SS2420DR	SS2425DR	SS2440DR
Voltage Range (Vac)	70-240 Vrms				
Peak voltage (t=1min.)	600 Vdc				
Maximum current (Arms)	10A	15A	20A	25A	40A
I ² t (t=10ms)A ² s	126A/ 66A ² S	160A/ 106A ² S	220A/ 201A ² S	250A/ 206A ² S	400A/ 666A ² S
Maximum off-state leakage (T=25°C)	8 mArms (at Vmax and T=25°C)				
Max. on-state voltage drop at I _{max} and T=25°C	1.6V				
Thermal resistance (junction to baseplate)	2.4	2.2	2.1	2.1	1.0

DC SOLID STATE RELAY



FEATURES:

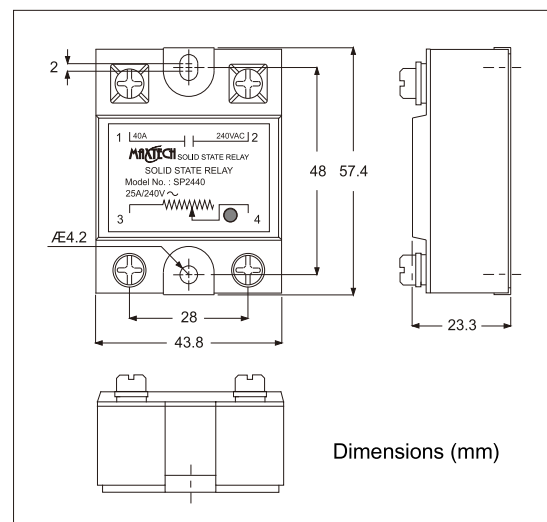
1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Load current of 10, 25 Amperes.
3. A LED can indicate the operating of devices.
4. Long service life and high reliability.

Input Specifications	
Control Voltage range (Vdc)	4-32V
Current	1mA(at 4V) 15mA(at 32V)
Maximum pickup voltage	4V
Minimum dropout voltage	2.5V

General Characteristics	
Response time	<0.1mSec.
Input to output dielectric strength	>10 ⁸ ohms
Input to output isolation voltage	2500 Vrms
Input/Output capacitance	< 10pf
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SD0610	SD0625
Voltage Range (Vdc)	3-60 V	
Peak voltage (t=1min.)	100 V	
Maximum current (Arms)	10A	25A
Maximum off-state leakage (T=25°C)	2 mArms (at Vmax and T=25°C)	
Max. on-state voltage drop at Imax and T=25°C	1.6V	
Thermal resistance (junction to baseplate)	1.3	1.1

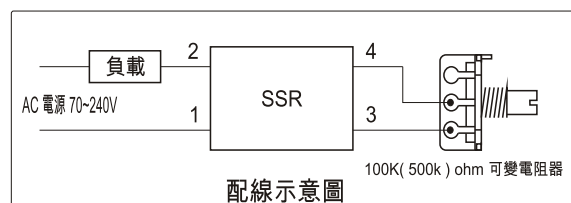
ADJUSTABLE SOLID STATE RELAY



FEATURES:

1. All solid state, optically coupled for 2500 VAC isolation between input and output circuit.
2. Removable protective cover(IP20) can easily apply ring terminals.
3. Able to be driven by IC such as TTL & CMOS.
4. Built-in sunbber and MOV to prevent false trigger.
5. A LED can indicate the operating of devices.
6. Long service life and high reliability.

本產品不可使用電感性負載,如馬達.變壓器等.



Input Specifications

Input resistance	100K (500k)-ohms Varistor (B-Type)
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General Characteristics

Input/Output to baseplate isolation voltage	2500 Vrms
Operating temperature	-20°C to +80°C
Storage temperature	-40°C to +100°C
Weight (approx.)	110g

Output Specifications	SP2410	SP2415	SP2420	SP2425	SP2440
Control voltage range	7- 95%				
Voltage Range (Vac)	100-240 Vrms				
Peak voltage (t=1min.)	600 V				
Maximum current (Arms)	10A	15A	20A	25A	40A
I^2t (t=10ms)A ² s	126A/ 66A ² S	160A/ 106A ² S	220A/ 201A ² S	250A/ 206A ² S	400A/ 666A ² S
Maximum off-state leakage (T=25°C)	8 mArms (at Vmax and T=25°C)				
Max. on-state voltage drop at Imax and T=25°C	1.6V				
Thermal resistance (junction to baseplate)	2.4	2.2	2.1	2.1	1.0

Contact

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