

AC Solid State Relay



S3

SERIES



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Features

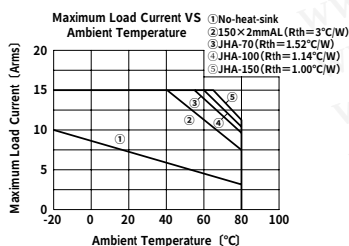
- 15A/25A/45A type have common dimensions
- LED installed
- Dielectric strength between input and output at 3,000V/1 min.
- Built-in varistor (surge absorb element)
- UL、C-UL、VDE standard approved
- Terminal safety cover installed
- Optional heat-sink available (P93)

Type Information

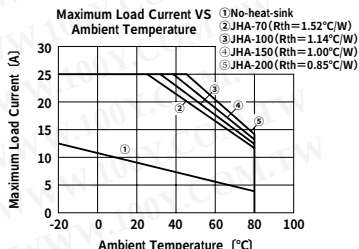
S	3	C	-	2	1	5	W	D	V
Zero-cross-circuit	Standard load voltage	Max. load current	Input voltage range						
C : Built-in	2 : 100V、200V	15 : 15A 25 : 25A 45 : 45A	WDV : DC3.5 ~ 30V						

Characteristics

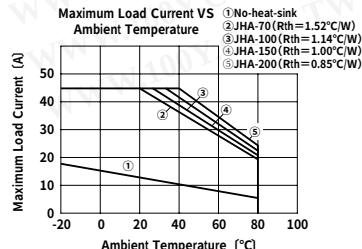
S3C-215WDV



S3C-225WDV

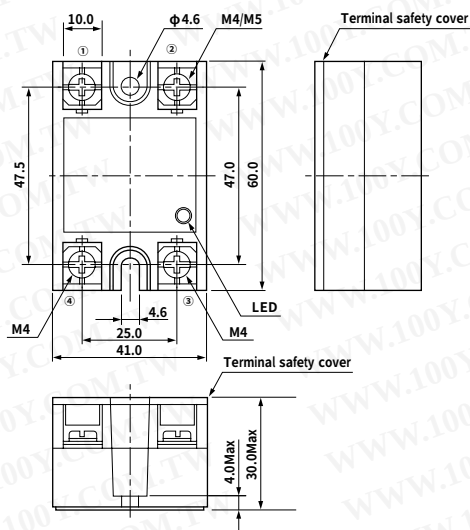


S3C-245WDV



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Dimensions (mm)



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※ Torque range

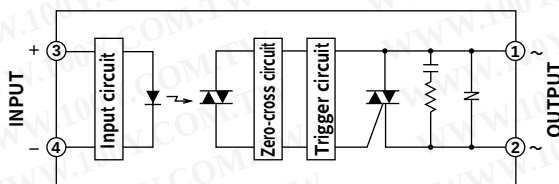
M4 terminal 1.5 N · m (MAX)

M5 terminal 2.0 N · m (MAX)

Outer case 1.5 N · m (MAX)

Terminal number	Terminal size	
	S3C-215 S3C-225	S3C-245
① (Output)	M4	M5
② (Output)		M4
③ (Input +)		
④ (Input -)		

Equivalent Circuit



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■ Ratings

(Ta = 25 °C)

	Item	Symbols	S3C- 215WDV	S3C- 225WDV	S3C- 245WDV	Units
Output	Rated Load Voltage	V _O	120、240			V _{ACrms}
	Maximum Load Current	I _{OMAX}	15	25	45	A _{ACrms}
	Peak Repetitive Off State Voltage	V _{DRM}	387			V
	Peak 1 Cycle Surge Current	I _{SURGE}	150	225	440	A
	Frequency	f	50、60			Hz
Input	Maximum Input Voltage	V _{IMAX}	30			V _{DC}
	Max Input Current	I _{IMAX}	10			mA _{DC}
General	Dielectric Strength	V _{ISO}	3,000 / 1min. (Between input-output-case) (Rh40 ~ 60 %)			V _{ACrms}
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V (Between input-output-case) (Rh40 ~ 60 %)			Ω
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80			°C
	Storage Temperature Range	T _{STG}	- 30 ~ + 100			°C

■ Electrical Characteristics

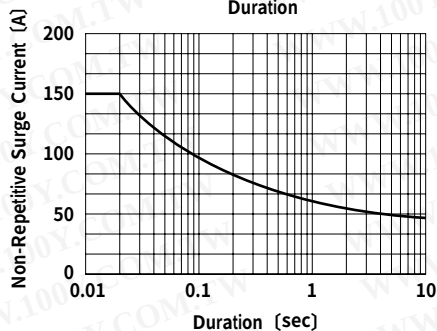
(Ta = 25 °C)

	Item	Symbols	S3C- 215WDV	S3C- 225WDV	S3C- 245WDV	Units
Output	Load Voltage Range	V _O	35 ~ 264			V _{ACrms}
	Off State Leakage Current	I _{LEK}	12 and below (V _O = 200V)			mA _{ACrms}
	On State Voltage Drop	V _{SAT}	1.5 and below			V _{ACrms}
	Minimum Load Current	I _{OMIN}	100			mA
Input	Input Voltage Range	V _I	3 ~ 30 (T _{OPR} = 0 ~ + 80 °C)			V _{DC}
			3.5 ~ 30 (T _{OPR} = - 20 ~ 0 °C)			
	Operate Voltage	V _P	3 and below (T _{OPR} = 0 ~ + 80 °C)			V _{DC}
			3.5 and below (T _{OPR} = - 20 ~ 0 °C)			
	Release Voltage	V _D	1 and above			V _{DC}
General	Operate Time	T _{ON}	1/2 Cycle + 1ms and below			
	Release Time	T _{OFF}	1/2 Cycle + 1ms and below			
	Capacitance	C _{IO}	15 and below			PF
	Zero Cross Turn On		Built In			
	Approved Standards		UL、C-UL、VDE			

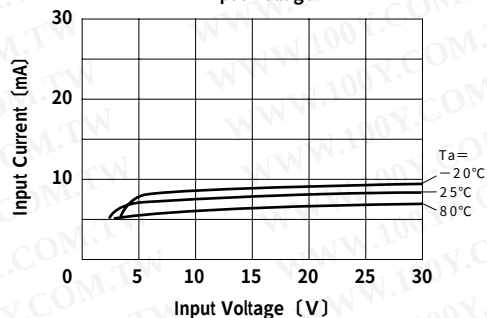
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S3C-215WDV

Peak Surge Current VS.
Duration

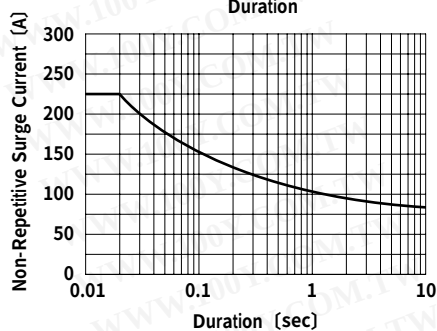


Input Current VS.
Input Voltage

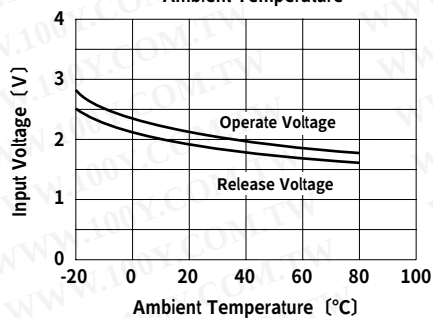


S3C-225WDV

Peak Surge Current VS.
Duration

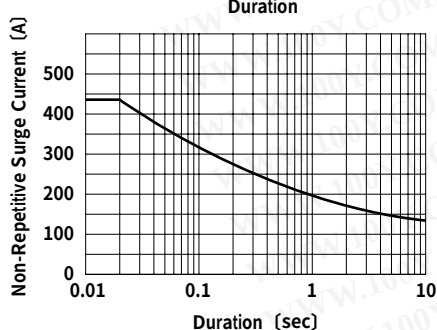


Input Characteristics VS
Ambient Temperature



S3C-245WDV

Peak Surge Current VS.
Duration



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S3C

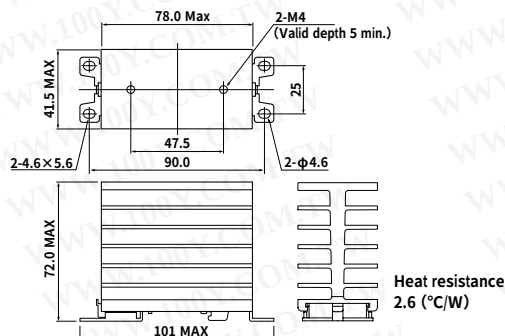
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Option

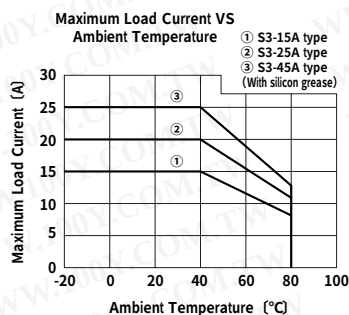
Heat-sink

Model	JHC-41-1
SUITABLE SSR	S3C Series

● Dimensions

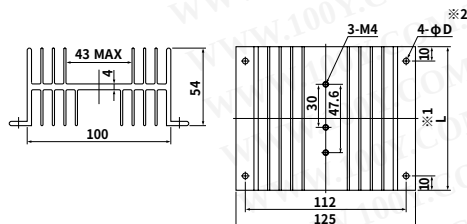


● Dimensions



Model	JHA-□□□
SUITABLE SSR	S3C Series

● Dimensions



Model	Heat Resistance (°C/W)	※1 L (mm) Dimensions	※2 D (mm) Dimensions
JHA-70	1.52	70	4
JHA-100	1.14	100	4
JHA-150	1.00	150	4.5
JHA-200	0.85	200	4

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