

AC Solid State Relay



S1

SERIES



Features

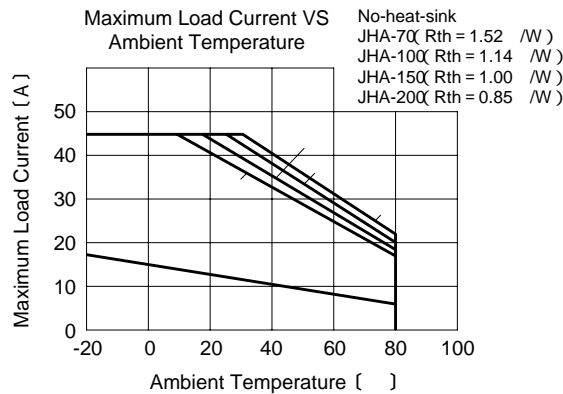
Medium power SSR with 45A load current (Max.)
 LED installed
 Dielectric strength between input and output at 3,000V/1 min.

UL, C-UL, TÜV standard approved
 Optional safety cover available (P83)
 Optional heat-sink available (P83)

Type Information

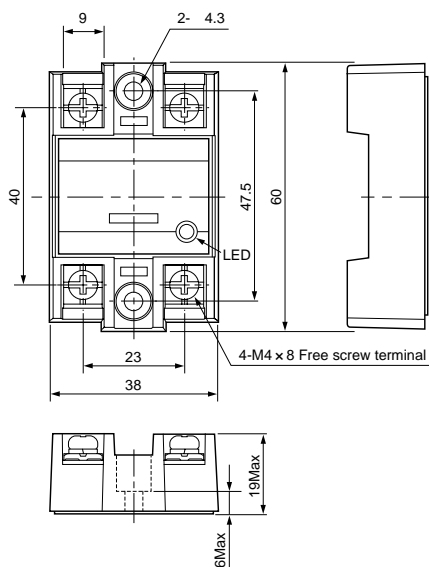
S		1	C	-	2	4	5	W	D	V
Zero-cross-circuit	Standard load voltage				Max. load current			Input voltage range		
C : Built-in	2 : 100V, 200				45 : 45A			LDV : DC4 ~ 8V ADV : AC85 ~ 264V		
								MDV : DC8 ~ 18V		
								HDV : DC18 ~ 28V		

Characteristics



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 Please contact JEL SYSTEM for further information.

Dimensions (mm)



Torque range

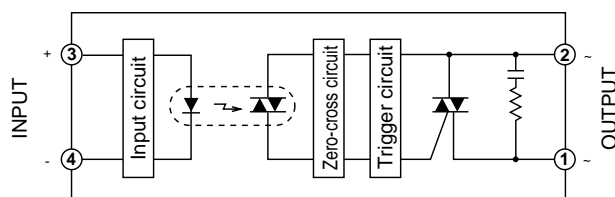
Output terminal 1.5 N · m(MAX)

Input terminal 1.5 N · m(MAX)

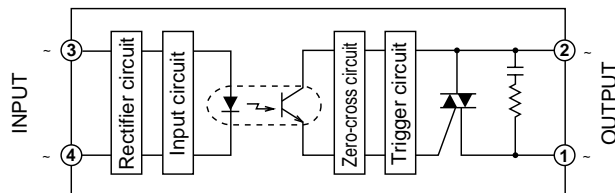
Outer case 1.5 N · m(MAX)

Equivalent Circuit

S1C-245LDV, S1C-245MDV, S1C-245HDV



S1C-245ADV



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Ratings

(Ta = 25)

	Item	Symbols	S1C-245LDV	S1C-245MDV	S1C-245HDV	S1C-245ADV	Units
Output	Rated Load Voltage		120、240				V _{ACrms}
	Maximum Load Current	I _{OMAX}	45				A _{ACrms}
	Maximum Load Voltage	V _{OMAX}	264				V _{ACrms}
	Peak Repetitive Off State Voltage	V _{DRM}	600			V _{DSM} = 600 * ¹	V
	Peak 1 Cycle Surge Current	I _{SURGE}	440 (50Hz)				A
	Frequency	f	50、60				Hz
Input	Maximum Input Voltage	V _{IMAX}	8	18	28	264(V _{ACrms})	V _{DC}
	Input Impedance	R _{IN}	220 ± 20 %	560 ± 20 %	1220 ± 20 %	5mA * ²	
General	Dielectric Strength	V _{ISO}	3,000 / 1 min. (Between input-output-case)(Rh40 ~ 60 %)				V _{ACrms}
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V (Between input-output-case)(Rh40 ~ 60 %)				
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80				
	Storage Temperature Range	T _{STG}	- 30 ~ + 100				

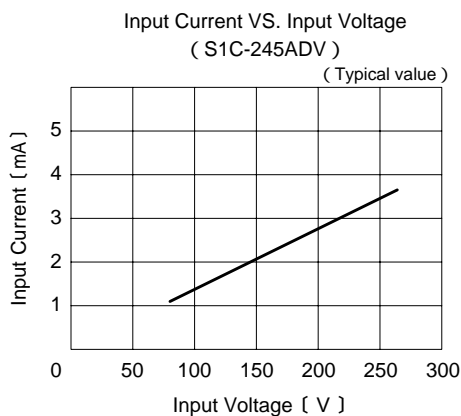
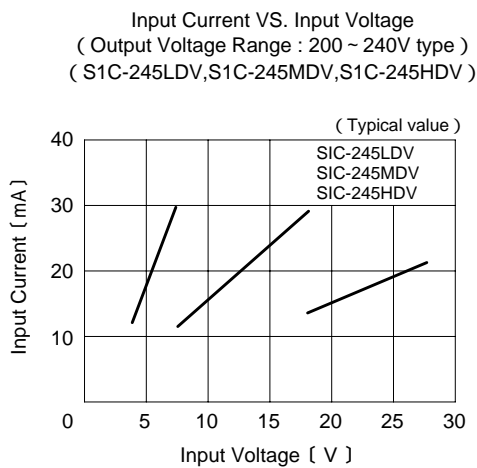
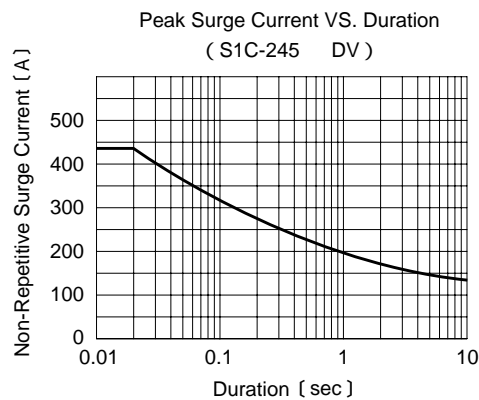
* 1 Peak non-Repetitive Off State Voltage V_{DSM} * 2 Max. input current

Electrical Characteristics

(Ta = 25)

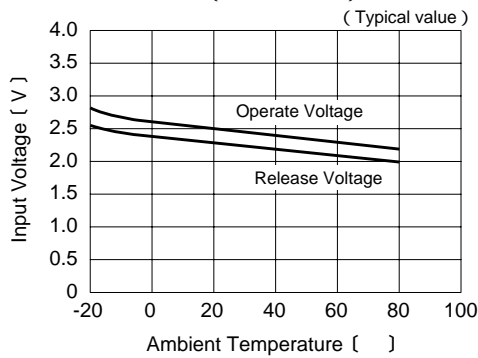
	Item	Symbols	S1C-245LDV	S1C-245MDV	S1C-245HDV	S1C-245ADV	Units
Output	Load Voltage Range	V _O	85 ~ 264				V _{ACrms}
	Off State Leakage Current	I _{LEK}	12 and below (V _O = 200V)				mA _{ACrms}
	On State Voltage Drop	V _{SAT}	1.5 and below				V _{ACrms}
	Minimum Load Current	I _{OMIN}	100				mA
Input	Input Voltage Range	V _I	4 ~ 8	8 ~ 18	18 ~ 28	85 ~ 264(V _{ACrms})	V _{DC}
	Operate Voltage	V _P	4 and below	8 and below	18 and below	85 and below (V _{ACrms})	V _{DC}
	Release Voltage	V _D	1 and above			30 and above (V _{ACrms})	V _{DC}
General	Operate Time	T _{ON}	1/2 Cycle + 1 ms and below			1 + 1/2 Cycle + 1 ms and below	
	Release Time	T _{OFF}	1/2 Cycle + 1 ms and below			1 + 1/2 Cycle + 1 ms and below	
	Capacitance	C _{IO}	150 and below				PF
	Zero Voltage Circuit		Built In				
	Approved Standards		UL、C-UL、TÜV				

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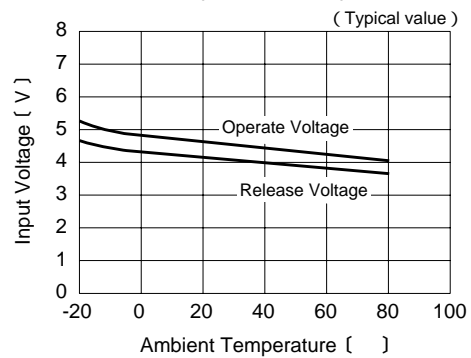


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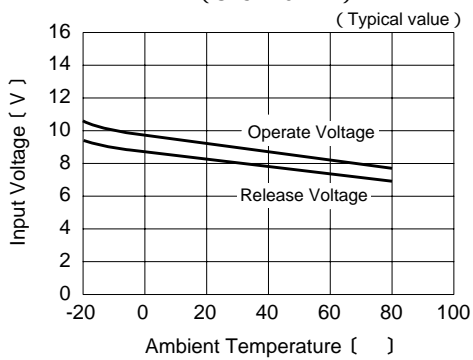
Input Characteristics VS Ambient Temperature
(Input Voltage Range : L type)
(S1C-245LDV)



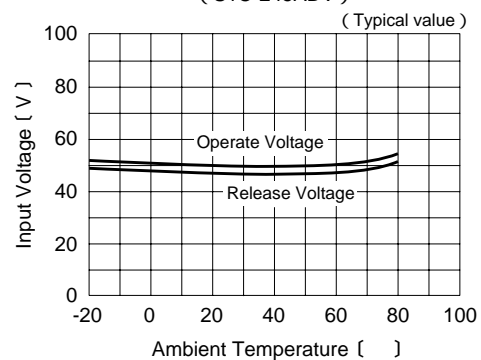
Input Characteristics VS Ambient Temperature
(Input Voltage Range : M type)
(S1C-245MDV)



Input Characteristics VS Ambient Temperature
(Input Voltage Range : H type)
(S1C-245HDV)



Input Characteristics VS Ambient Temperature
(S1C-245ADV)



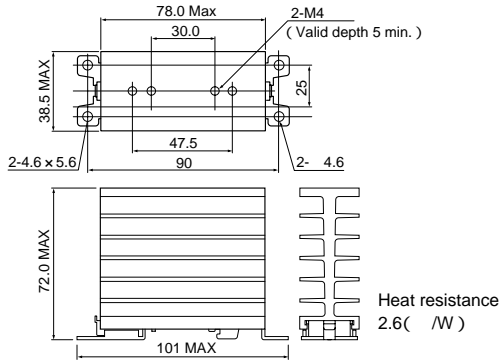
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Option

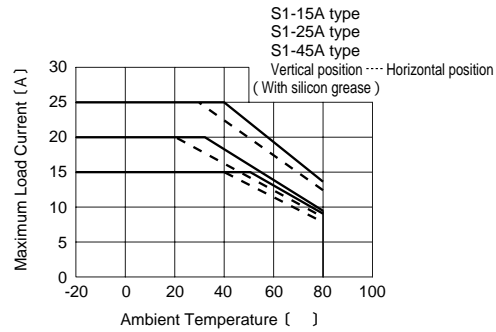
Heat-sink

Model	JHC-38-1
SUITABLE SSR	S1C Series

Dimensions

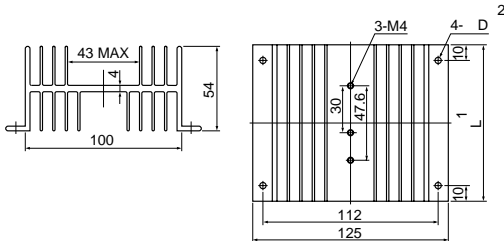


Maximum Load Current VS Ambient Temperature



Model	JHA-
SUITABLE SSR	S1C Series

Dimensions

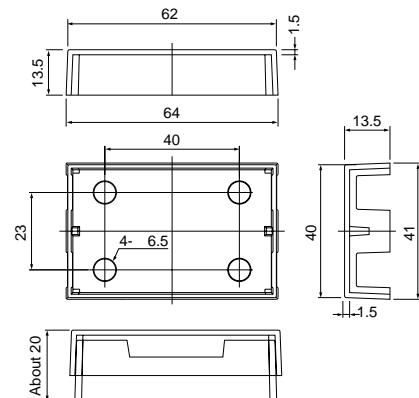


Model	Heat Resistance (/W)	1 L(mm) Dimensions	2 D(mm) Dimensions
JHA-70	1.52	70	4
JHA-100	1.14	100	4
JHA-150	1.00	150	4.5
JHA-200	0.85	200	4

Safety cover

Model	CV-S101
SUITABLE SSR	S1C Series

Dimensions



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