

AC Solid State Relay



JPS

SERIES



Features

Power control SSR type with 150A load current (Max.)
 All-in one box with heat-sink
 Dielectric strength between input and output at 2,500V/1 min.

DC / AC input
 Built-in varistor

Type Information

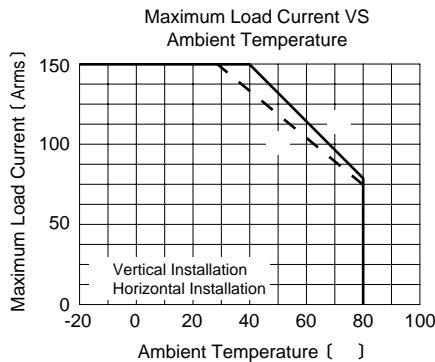
J P S - 2 1 5 0 *

Standard load voltage
 2 : 100V, 200V
 4 : 400V

Max. load current
 150 : 150A

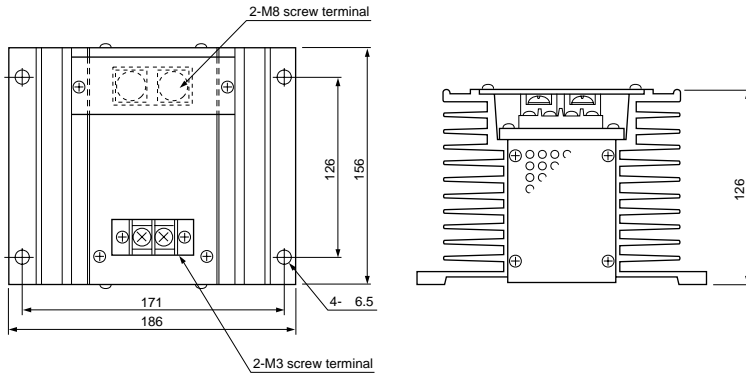
Input voltage range
 None : DC3 ~ 32V
 A : AC50 ~ 250V

Characteristics



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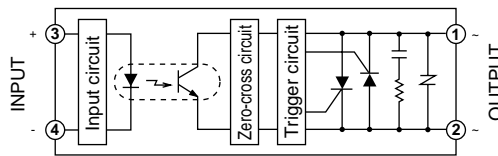
Dimensions (mm)



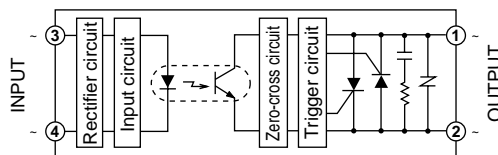
Torque range
 M3 terminal 0.8 N · m(MAX)
 M8 terminal 9.8 N · m(MAX)

Equivalent Circuit

JPS TYPE (DC INPUT)

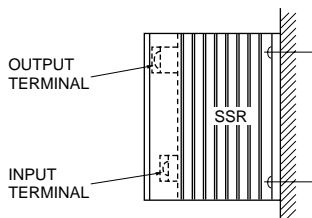


JPS-A TYPE (AC INPUT)

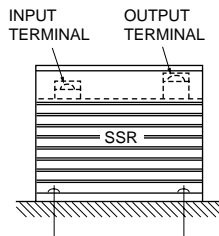


Installation

Vertical Installation



Horizontal Installation



Reduce the rating of load current

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Ratings

(Ta = 25)

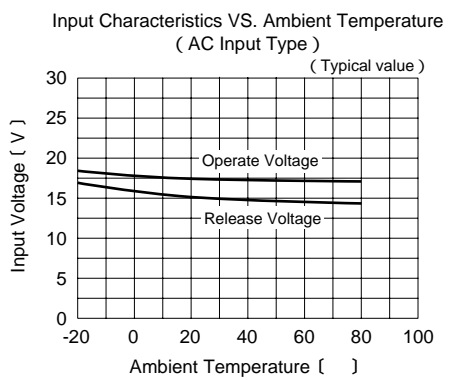
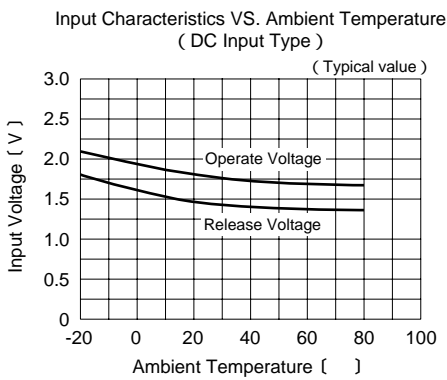
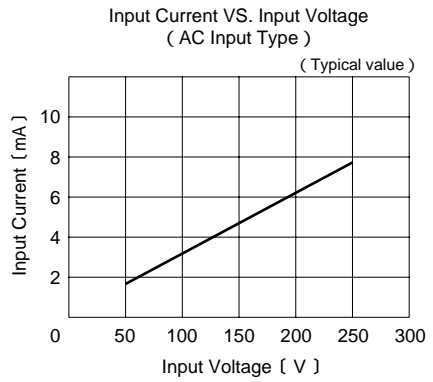
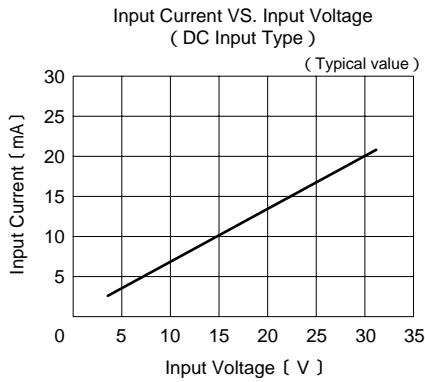
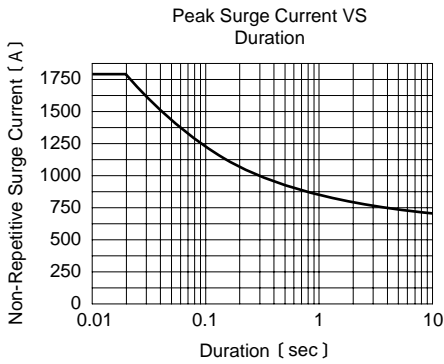
	Item	Symbols	JPS-2150	JPS-2150A	JPS-4150	JPS-4150A	Units
Output	Rated Load Voltage		120、240		440		V _{ACrms}
	Maximum Load Current	I _{OMAX}	150				A _{ACrms}
	Maximum Load Voltage	V _{OMAX}	264		484		V _{ACrms}
	Peak Non Repetitive Off State Voltage	V _{DSM}	423		1080		V
	Peak 1 Cycle Surge Current	I _{SURGE}	1800 (50Hz)				A
	Frequency	f	50、60				Hz
Input	Maximum Input Voltage	V _{IMAX}	32	250(V _{ACrms})	32	250(V _{ACrms})	V _{DC}
	Input Impedance	R _{IN}	1500	33000	1500	33000	
General	Dielectric Strength	V _{ISO}	2,500/1min. (Between input-output-case)(Rh40 ~ 60 %)				V _{ACrms}
	Isolation Resistance	R _{ISO}	10 ⁸ 以上 DC500V (Between input-output-case)(Rh40 ~ 60 %)				
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80				
	Storage Temperature Range	T _{STG}	- 30 ~ + 100				

Electrical Characteristics

(Ta = 25)

	Item	Symbols	JPS-2150	JPS-2150A	JPS-4150	JPS-4150A	Units
Output	Load Voltage Range	V _O	50 ~ 264		50 ~ 484		V _{ACrms}
	Off State Leakage Current	I _{LEK}	40 and below (V _O = 200V)		80 and below (V _O = 400V)		mA _{ACrms}
	On State Voltage Drop	V _{SAT}	2.0 and below				V _{ACrms}
	Minimum Load Current	I _{OMIN}	200				mA
Input	Input Voltage Range	V _I	3 ~ 32	50 ~ 250(V _{ACrms})	3 ~ 32	50 ~ 250(V _{ACrms})	V _{DC}
	Operate Voltage	V _P	3 and below	50 and below (V _{ACrms})	3 and below	50 and below (V _{ACrms})	V _{DC}
	Release Voltage	V _D	1 and above	10 and above (V _{ACrms})	1 and above	10 and above (V _{ACrms})	V _{DC}
General	Operate Time	T _{ON}	1/2Cycle + 1ms and below	1.5Cycle + 1ms and below	1/2Cycle + 1ms and below	1.5Cycle + 1ms and below	/
	Release Time	T _{OFF}	1/2Cycle + 1ms and below	1.5Cycle + 1ms and below	1/2Cycle + 1ms and below	1.5Cycle + 1ms and below	/
	Capacitance	C _{IO}	15 and below				PF
	Zero Cross Turn On		Built In				/
	Approved Standards						/

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