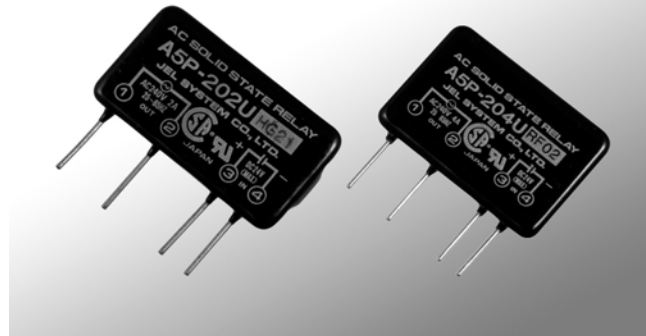


AC Solid State Relay



A5P SERIES



Features

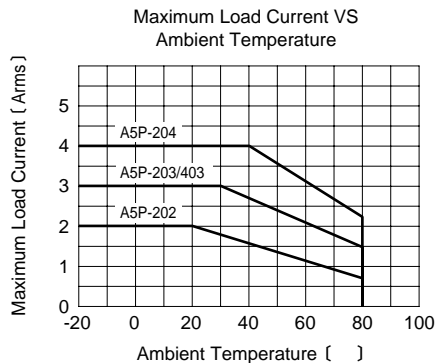
Resin casted molding type
 Available for PCB high-density packaging
 Dielectric strength between input and output at 3,000V/1 min. (V type)

3 ~ 24V input voltage
 UL/CSA/TÜV standard approved (some items are not approved)
 400V is available with A5P-403

Type Information

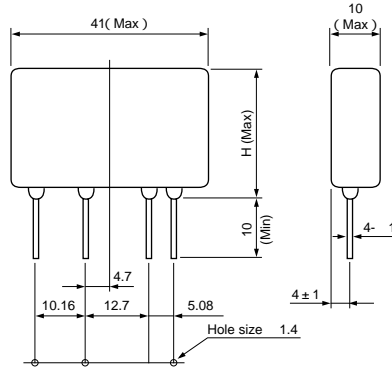
A 5 P - 2 0 2 *		
Standard load voltage	Max. load current	Approved Standard
2 : 100V, 200V 4 : 400V	02 : 2A 03 : 3A 04 : 4A	None : No standard U : UL, CSA approved V : TÜV approved

Characteristics



Description in the catalogue is subject to change without notice. Please read the specifications thoroughly before using. Please contact JEL SYSTEM for further information.

Dimensions (mm)

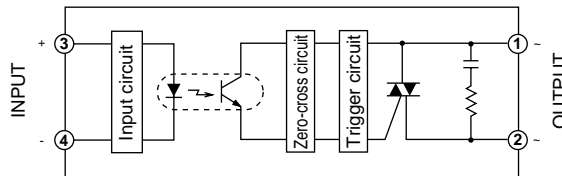


Model	Size	H(mm)
A5P-202		26
A5P-203/403		26
A5P-204		31

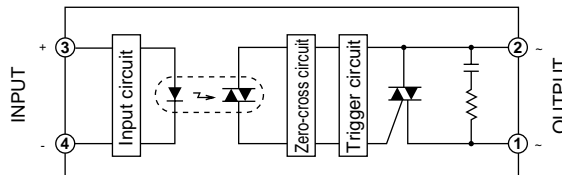
Dimensions For PCB Design

Equivalent Circuit

A5P-202 , 203 , 204



A5P-403



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Ratings

(Ta = 25)

	Item	Symbols	A5P-202U A5P-202V	A5P-203U A5P-203V	A5P-204U A5P-204V	A5P-403	Units
Output	Rated Load Voltage		120, 240			400	V _{ACrms}
	Maximum Load Current	I _{OMAX}	2	3	4	3	A _{ACrms}
	Maximum Load Voltage	V _{OMAX}	264			484	V _{ACrms}
	Peak Non Repetitive Off State Voltage	V _{DSM}	600			V _{DRM} = 800 *	V
	Peak 1 Cycle Surge Current	I _{SURGE}	30 (50Hz)	40 (50Hz)	50 (50Hz)	40 (50Hz)	A
	Frequency	f	50, 60				Hz
Input	Maximum Input Voltage	V _{IMAX}	24			8	V _{DC}
	Input Impedance	R _{IN}	1500 ± 20 %			180 ± 20 %	
General	Dielectric Strength	V _{ISO}	2,500 / 1min. (Between input and output)(Rh40 ~ 60 %)				V _{ACrms}
			V type 3,000 / 1min. (Between input and output)(Rh40 ~ 60 %)				
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V (Between input and output)(Rh40 ~ 60 %)				
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80				
Storage Temperature Range	T _{STG}	- 30 ~ + 100					

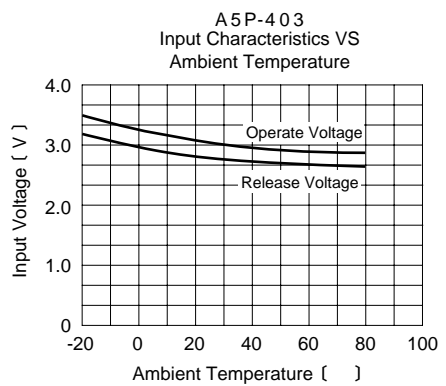
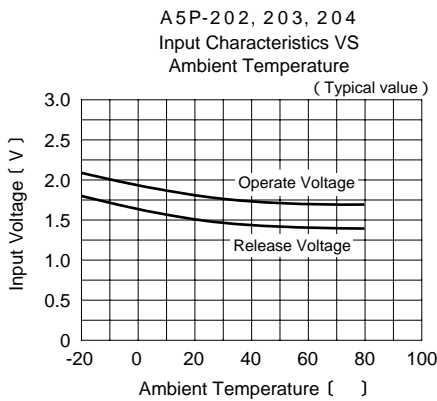
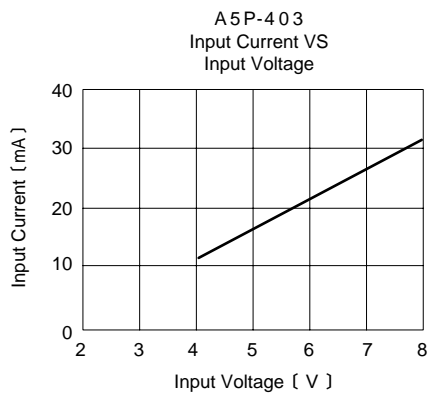
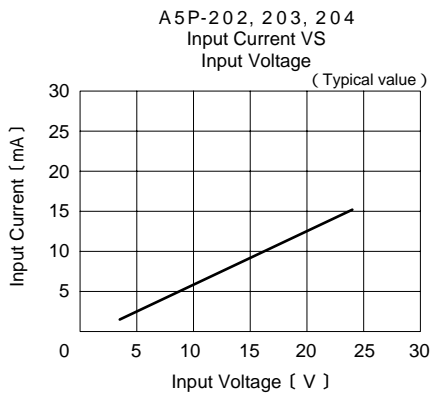
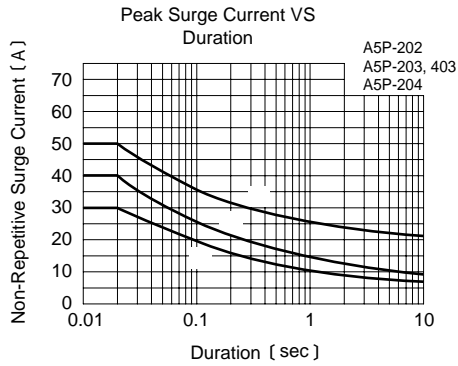
* Peak Repetitive Off State Voltage V_{DRM}

Electrical Characteristics

(Ta = 25)

	Item	Symbols	A5P-202U A5P-202V	A5P-203U A5P-203V	A5P-204U A5P-204V	A5P-403	Units
Output	Load Voltage Range	V _O	50 ~ 264			60 ~ 484	V _{ACrms}
	Off State Leakage Current	I _{LEK}	5.0 and below (V _O = 200V)			5.0 and below (V _O = 400V)	mA _{ACrms}
	On State Voltage Drop	V _{SAT}	1.5 and below				V _{ACrms}
	Minimum Load Current	I _{OMIN}	20				mA
Input	Input Voltage Range	V _I	3 ~ 24			4 ~ 8	V _{DC}
	Operate Voltage	V _P	3 and below			4 and below	V _{DC}
	Release Voltage	V _D	1 and above				V _{DC}
General	Operate Time	T _{ON}	1/2 Cycle + 1 ms and below				/
	Release Time	T _{OFF}	1/2 Cycle + 1 ms and below				/
	Capacitance	C _{IO}	15 and below				PF
	Zero Cross Turn On		Built In				/
	Approved Standards		-U means UL, CSA / -V means TÜV				/

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