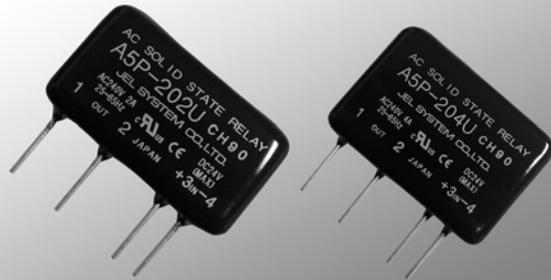


AC Solid State Relay



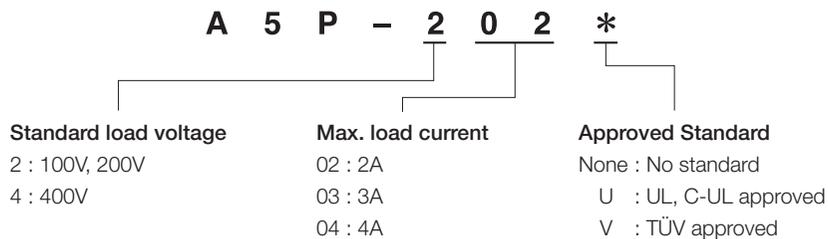
A5P SERIES

Solid State Relay
A5P series

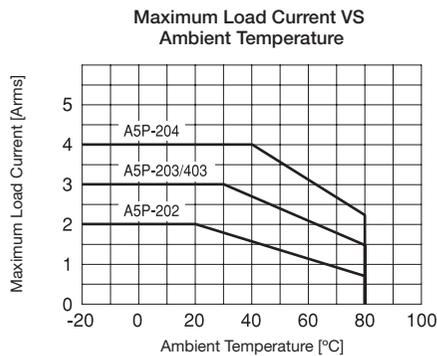
Features

- 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/C-UL/TÜV standard approved (some items are not approved)
- 400V is available with A5P-403

Type Information

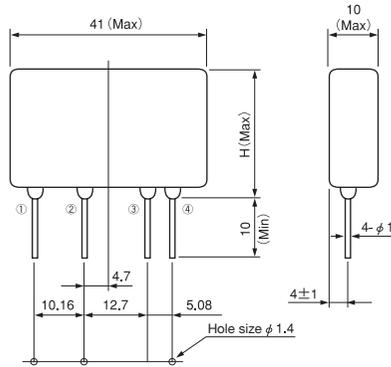


Characteristics



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 ※ Please contact JEL SYSTEM for further information.

Dimensions (mm)

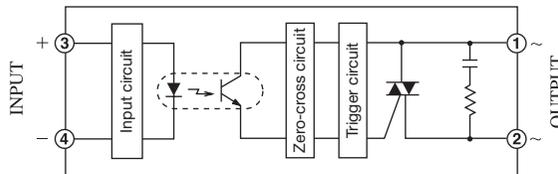


Model	Size	H (mm)
A5P-202		26
A5P-203/403		26
A5P-204		31

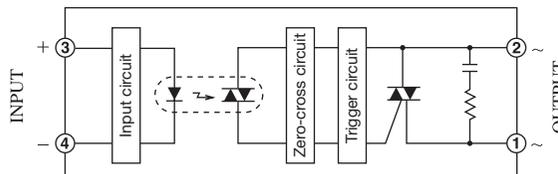
Dimensions For PCB Design

Equivalent Circuit

A5P-202 □, 203 □, 204 □



A5P-403



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 ※ Please contact JEL SYSTEM for further information.

■ Ratings

(Ta = 25 °C)

	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 %	Ω
General	Dielectric Strength	V _{ISO}	2,500/1min.(Between input and output)			—	V _{ACrms}
			V type 3,000 /1min.(Between input and output)				
	Isolation Resistance	R _{ISO}	10 ⁸ and above DC500V(Between input and output)			Ω	
	Operating Temperature Range	T _{OPR}	- 20 ~ + 80			°C	
Storage Temperature Range	T _{STG}	- 30 ~ + 100			°C		

* Peak Repetitive Off State Voltage V_{DRM}

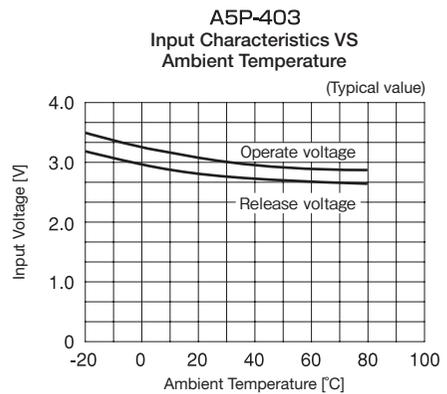
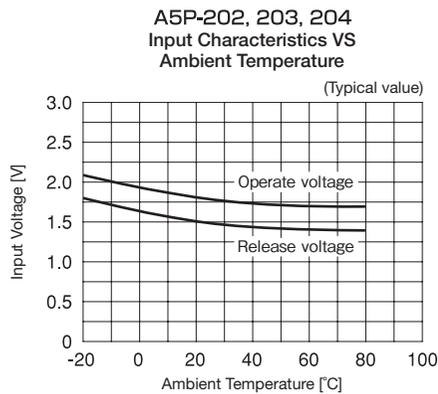
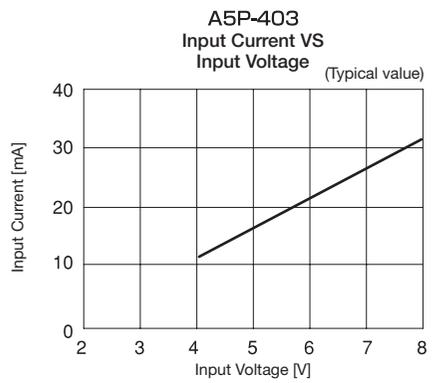
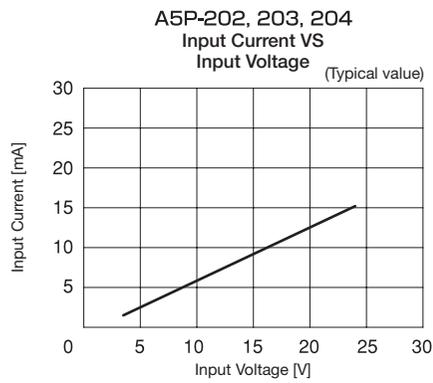
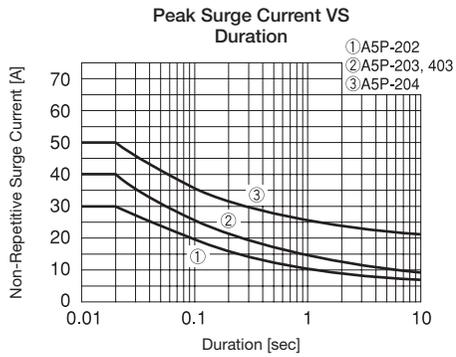
■ Electrical Characteristics

(Ta = 25 °C)

	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 + 1ms and below				
	Release Time	T _{OFF}	1/2 Cycle + 1ms and below				
	Capacitance	C _{IO}	15 and below	50 and below			PF
	Zero Cross Turn On		Built In				
	Approved Standards		-U means UL, C-UL/-V means TÜV			—	

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