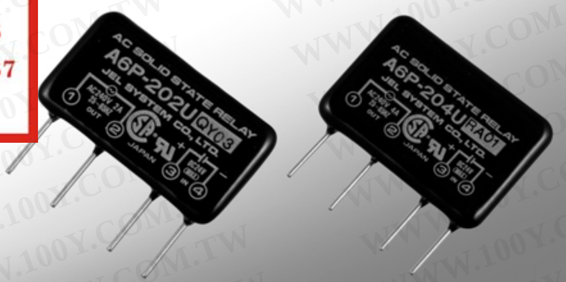
AC Solid State Relay



A6P 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 A6P-403

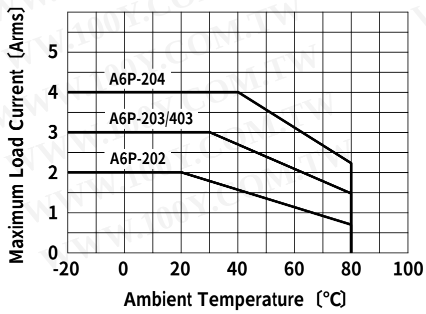
型式構成

A 6 P － 2 0 2 ＊

Standard load voltage	Max. load current	Approved Standard
2 ： 100V、200V	02 ： 2A	None ： No standard
4 ： 400V	03 ： 3A	U ： UL、CSA approved
	04 ： 4A	V ： TÜV approved

Characteristics

Maximum Load Current VS Ambient Temperature



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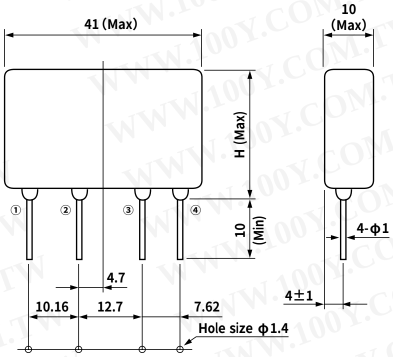
※ Please contact JEL SYSTEM for further information.

Dimensions (mm)

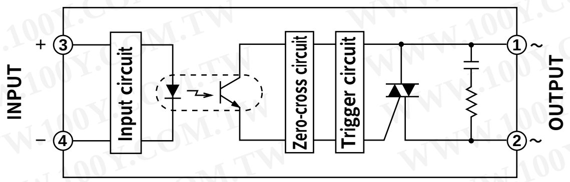


Model \ Size	H (mm)
A6P-202	26
A6P-203/403	26
A6P-204	31

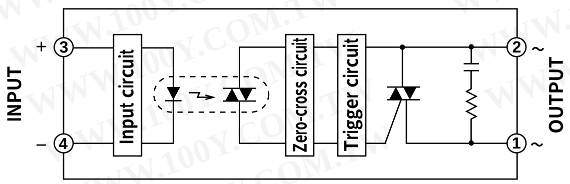
Dimensions For PCB Design

Equivalent Circuit

A6P-202□、203□、204□



A6P-403



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■ Ratings

(Ta＝25℃)

	Item	Symbols	A6P-202U A6P-202V	A6P-203U A6P-203V	A6P-204U A6P-204V	A6P-403	Units
Output	Rated Load Voltage	—	120、240			400	VACrms
Output	Maximum Load Current	I_{OMAX}	2	3	4	3	AACrms
Output	Maximum Load Voltage	V_{OMAX}	264			484	VACrms
Output	Peak Non Repetitive Off State Voltage	V_{DSM}	600			V_{DRM}＝800＊	V
Output	Peak 1 Cycle Surge Current	I_{SURGE}	30（50Hz）	40（50Hz）	50（50Hz）	40（50Hz）	A
Output	Frequency	f	50、60				Hz
Input	Maximum Input Voltage	V_{IMAX}	24			8	VDC
Input	Input Impedance	R_{IN}	1500±20%			180±20%	Ω
General	Dielectric Strength	V_{ISO}	2,500/1min.（Between input and output）（Rh40～60%）				VACrms
General			V type 3,000/1min.（Between input and output）（Rh40～60%）			—	
General	Isolation Resistance	R_{ISO}	$10^8$and above DC500V（Between input and output）（Rh40～60%）				Ω
General	Operating Temperature Range	T_{OPR}	－20～＋80				℃
General	Storage Temperature Range	T_{STG}	－30～＋100				℃

＊Peak Repetitive Off State Voltage V_{DRM}

■ Electrical Characteristics

(Ta＝25℃)

	Item	Symbols	A6P-202U A6P-202V	A6P-203U A6P-203V	A6P-204U A6P-204V	A6P-403	Units
Output	Load Voltage Range	V_O	50～264			60～484	VACrms
Output	Off State Leakage Current	I_{LEK}	5.0 and below（V_O＝200V）			5.0 and below（V_O＝400V）	mAACrms
Output	On State Voltage Drop	V_{SAT}	1.5 and below				VACrms
Output	Minimum Load Current	I_{OMIN}	20				mA
Input	Input Voltage Range	V_I	3～24			4～8	VDC
Input	Operate Voltage	V_P	3 and below			4 and below	VDC
Input	Release Voltage	V_D	1and above				VDC
General	Operate Time	T_{ON}	1/2 Cycle＋1ms and below				
General	Release Time	T_{OFF}	1/2 Cycle＋1ms and below				
General	Capacitance	C_{IO}	15 and below				PF
General	Zero Cross Turn On		Built In				
General	Approved Standards		-U means UL, CSA / -V means TÜV			—	

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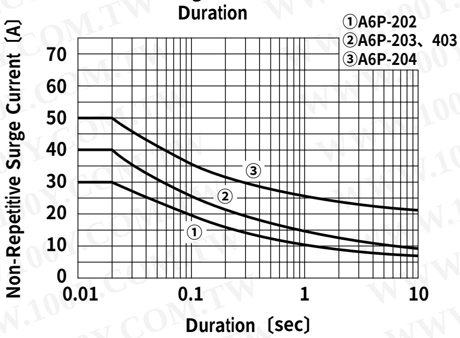
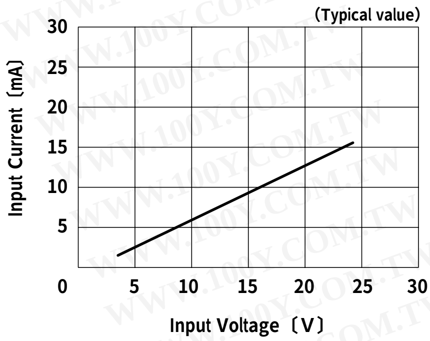
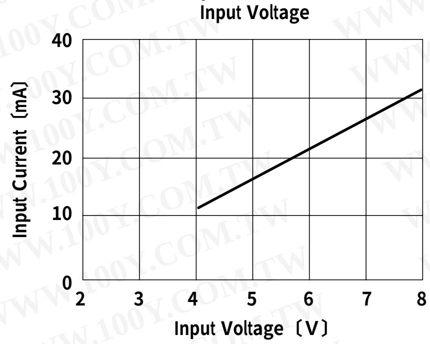
Peak Surge Current VS
Duration



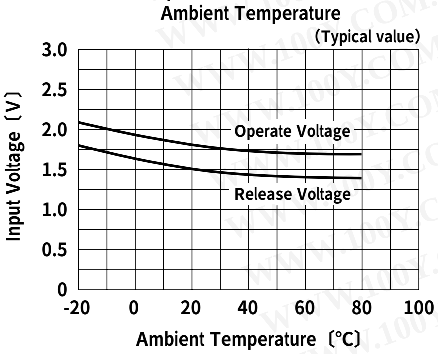
A6P-202、203、204
Input Current VS
Input Voltage



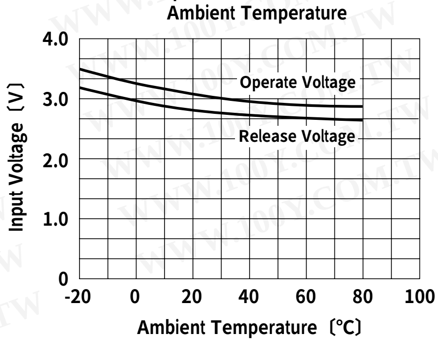
A6P-403
Input Current VS
Input Voltage



A6P-202、203、204
Input Characteristics VS
Ambient Temperature



A6P-403
Input Characteristics VS
Ambient Temperature



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