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### AC-SOLID-STATE RELAY K294КП8АП3 ±600V / 0,5A

ПКАШ.431156.004ТУ ГК

<p><u>Peculiarities:</u></p> <ul style="list-style-type: none"><li>- Operating Voltage ~260 V</li><li>- Switching-on at zero crossing</li><li>- Control current 5 mA</li><li>- 5 000 V Dielectric strength</li><li>- 4-pin plastic SIP,</li><li>Pin step 2,5 mm</li></ul> <p><u>Application:</u></p> <ul style="list-style-type: none"><li>- industrial automation</li><li>- power interface</li></ul>	<p>Circuit diagram</p> <p>Outline drawing</p> <p>Marking: a white spot at the 6<sup>th</sup> pin</p>
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ELECTRICAL PARAMETERS Tamb = 25 °C

Parameter name	Sign	Unit	Value			Measurement mode
			Min.	Typ.	Max.	
Input Voltage	Ui	V	1,1		1,5	Ii=10mA
On-state Voltage	Ron	V		1,5	2	Ii=5mA; Io=0,5A; t=1sec.
Output Leakage Current in OFF condition	Ileak	µA		0,1	100	Ui=0,8V; Uo= ±600V
Inhibit Voltage	Uinh	V		5	20	Ii=10mA
Output Leakage Current in inhibited state	Ileak.inh	µA			500	Ii=10mA; Uo= ±600V
Dielectric Strength: Input-Output	Udiel.s	V	5000			t=1min.
Insulation Resistance	Rins	Ohm		10 <sup>11</sup>		Udiel.s=500V
Input-Output Capacitance	Ci-o	pF		3		
Turn-on time	t <sub>on</sub>	ms		5		

### PERMISSIBLE OPERATING CONDITIONS

Condition parameters	Units	Min.	Max.	Note
Input on-state Current	mA		25	
Peak Input Current	mA		150	t <sub>i</sub> <100µs
Input off-state Voltage	V	-3,5	0,8	
Operating Voltage	V	20	600	
Irms	A	0,05	0,5	-45°C ≤ Tamb ≤ 25°C; Ii=5mA
Temperature coefficient of max. Irms	mA/°C	- 5,1		25°C < Tamb ≤ 85°C; Ii=5mA
Pulse Load Current	A		5	Tamb=25°C; Ii=5mA; t=100 ms; Duty Cycle=50%
Temperature coefficient of max. Pulse Load Current	mA/°C	-40		25°C < Tamb ≤ 85°C; Ii=5mA
Critical Rate of Rise of Output off-state Voltage	V/µs		50	
Operating Temperature Range	°C	-45	85	