

# μs-Switch Type EPS 100/4-29

Electronic switch according to IEC/EN 61000-4-29 for high impedance short interruptions

The relating standards:  
IEC/EN 61000-4-29



Fig. 1: EPS 100/4-29

The μs-Switch **EPS 100/4-29** is a very fast electronic switch combination for testing short interruptions according to IEC/EN 61000-4-29.

The related chapter in the IEC/EN standard is testing the immunity against short-interruptions with high impedance condition as defined in table 1b.

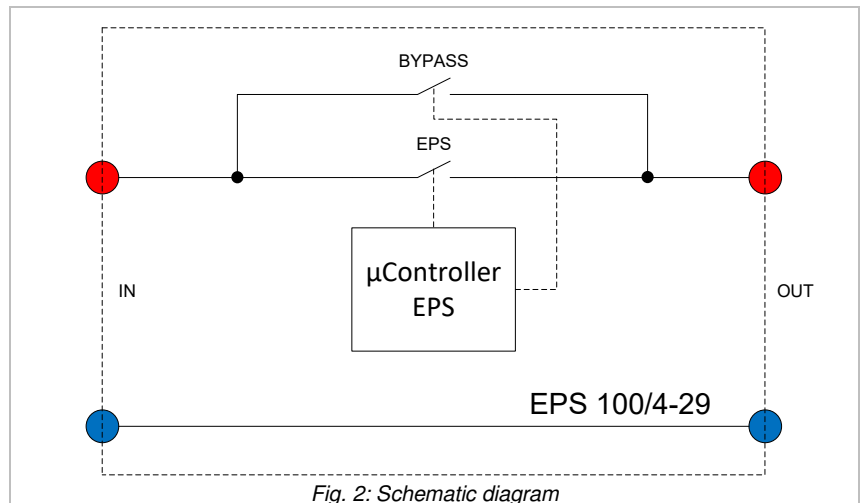


Fig. 2: Schematic diagram

“The impedance at the output terminals of the generator, during a short interruption, shall be  $\geq 100\text{k}\Omega$ .”

Test	Test condition	Test level % of $U_T$	Duration s
Short interruptions	High impedance and/or Low impedance	0	0,001
			0,003
			0,01
			0,03
			0,1
			0,3
			1
x			

Table 1b of 4-29: preferred test levels and durations for short interruptions

## TECHNICAL DATA EPS 100/4-29

		<b>EPS 100/4-29</b> <i>Testing according to: IEC/EN 61000-4-29</i>
<b>Input</b>		
	<i>Input voltage:</i>	400V <sub>dc</sub>
	<i>External trigger input:</i>	5V <sub>dc</sub>
<b>Output</b>		
	<i>Output current capability:</i>	100A <sub>dc</sub>
	<i>V<sub>CE</sub> at 25A:</i>	<3V
	<i>Rise time t<sub>r</sub> / Fall time t<sub>f</sub>:</i>	<50μs
	<i>Min. adjustable pulse width (at single operation):</i>	100μs
	<i>Trigger output:</i>	TTL level (+5V)
<b>Protection circuits</b>		short circuit / overtemperatur
<b>Interface</b>		IEEE488 / Ethernet
	<i>Power supply:</i>	230V (±10%, 50Hz ... 60Hz)
	<i>Protection:</i>	6.3A
	<i>Contactor type:</i>	Safety plug
<b>Ambient temperature</b>		10° C up to 40° C
<b>Operating humidity</b>		max. 80% (not condensing)
<b>Storage temperature</b>		-25° C up to +60° C
<b>Operating humidity</b>		max. 80% (not condensing)
<b>Housing</b>		19"-plug-in unit; 4U
	<i>Dimensions (mm):</i>	485x455x178
	<i>Weight:</i>	approx. 15kg