

# Voltage Surge Protectors Soppressori di Sovratensioni Überspannungsableiter Protecteurs de Surtension

Zenamics	Type	Voltage Ratings			Characteristics		Max. Operating Conditions			Outline
		VAC volts RMS	VDC volts	E1 volts $\pm 15\%$	Clamping Ratio	Capacitance pf (typical)	PAV watts	Energy joules	I peak ampe	
VRMS = 81-540V Bulletin 2303	Z7L151	81	110	150	1-2	—	0-25	1	250	23
	Z7L181	100	130	180				2		
	Z7L221	120	150	220				2		
	Z7L271	150	190	270				2		
	Z7L331	180	240	330				2		
	Z7L391	210	290	390				4		
	Z7L471	250	350	470				4		
	Z7L561	300	420	560				4		
	Z7L681	370	500	680				4		
	Z7L821	440	600	820				8		
	Z7L102	540	730	1000	8					
	Z10L181	100	130	180	1-3	230	0-5	5	500	23
	Z10L221	120	150	220				7		
	Z10L271	150	190	270				7		
	Z10L331	180	240	330				10		
	Z10L391	210	290	390				10		
	Z10L471	250	350	470				10		
	Z10L561	300	420	560				10		
	Z10L681	370	500	680				14		
	Z10L821	440	600	820				14		
	Z10L102	540	730	1000				14		
	Z15L181	100	130	180	1-3	800	0-7	7	1000	23
	Z15L221	120	150	220				10		
	Z15L271	150	190	270				10		
	Z15L331	180	240	330				14		
Z15L391	210	290	390	14						
Z15L471	250	350	470	14						
Z15L561	300	420	560	14						
Z15L681	370	500	680	14						
Z15L821	440	600	820	21						
Z15L102	540	730	1000	21						
Z21L221	120	150	220	1-3	1100	1-0	14	2000	23	
Z21L271	150	190	270				14			
Z21L331	180	240	330				21			
Z21L391	210	290	390				21			
Z21L471	250	350	470				21			
Z21L561	300	420	560				21			
Z21L681	370	500	680				21			
Z21L821	440	600	820				28			
Z21L102	540	730	1000				28			

Type	VRMS Input Voltage (max)	Max Leakage current	Min Clamping Current	PAV watts	Energy Joules	Outline
Z15X401	245 volts	1mA at 350V	1A at 500V	0-7	14	23
Z15X451	280 volts	1mA at 400V	1A at 550V			

**For solid state relay and PACE/PAK protection**

**Per la protezione dei rele' statici e dei PACE/PAK**

**Für den Schutz von Halbleiter-Relais und PACE/PAK'S**

**Pour la protection des relais statiques et PACE-PAKS**

