

PUNCH

INFORMATION

TITLE

# Selecting SPD Barriers

## ZIP02

ZYMAX INFORMATION PAGE

	Generic	Device	Nominal Voltage	Max Current Surge (kA)	Max Load	Resistance ( $\Omega$ per line)	Attenuation (max dB)	Module size n=17,5 mm	Leakage Current (mA)	Let Through Voltage	Band-width	Capacitance Line to Line	Typical Applications - Check the voltage Headroom of the source. e.g. For a 4-20mA transmitter powered from a 24v PSU choose a 33v rated SPD.
DATA	STANDARD High Energy	ZD06	6	20	200mA	33	n/a	1	500	8	17MHz	70pF	Thermocouples and circuits with less than 6 volts
		ZD16	16	20	200mA	33	n/a	1	5	18	17MHz	70pF	CMOS, Volt-Free Circuits, RS232, RS422, RS485
		ZD33	33	20	200mA	33	n/a	1	5	35	17MHz	70pF	Current Loops (4-20mA, 0-10mA, etc.), RTD's
		ZD51	51	20	200mA	33	n/a	1	5	55	17MHz	70pF	Rising Volt Current Loops and Controllers
		ZD75	75	20	200mA	33	n/a	1	5	79	17MHz	70pF	Special 75v max. headroom circuits
	Phone & Modem	ZD200	200	20	500mA	4,7	n/a	1	5	220	33MHz	70pF	PSTN, FAX, Modem, ADSL, Telemetry
		ZD200 BT	200	20	500mA	4,7	n/a	2	5	220	33MHz	70pF	FAX, ADSL, BT 2 wire and 4 wire circuits
		ZD200 SRJ	200	20	500mA	4,7	n/a	2	5	220	33MHz	70pF	Screw Terminal option with RJ11 output
		ZD200 IRJ	200	20	500mA	4,7	n/a	2	5	220	33MHz	70pF	BT IDC input termination option
	WIDE BAND low Resistance	ZW06	6	20	600mA	3,3	n/a	1	500	8	65MHz	40pF	Use these barriers for low R and wide Band-Width
		ZW16	16	20	600mA	3,3	n/a	1	5	18	65MHz	40pF	RS232, RS422, RS423, RS485, Data Highway Plus, Modbus
		ZW33	33	20	600mA	3,3	n/a	1	5	35	65MHz	40pF	Fieldbus- Foundation 31,25kb/s & Modbus+
		ZW51	51	20	600mA	3,3	n/a	1	5	55	65MHz	40pF	Fieldbus-Foundation 2,5Mb/s, WorldFIP
		ZW75	75	20	600mA	3,3	n/a	1	5	79	65MHz	40pF	Miscellaneous
		ZW400	400	20	600mA	3.3	n/a	1	5	420	65MHz	40pF	Milltronics EnviroRanger, HydroRanger & HydroRanger Plus
dc 12v to 36v	ZP18	18	19	10A	0	50	2	1mA	25	100kHz	100nF	Power Systems - dc. 6v to 38 v Suppress and Filter.	
	ZP28	28	19	10A	0	50	2	1mA	36	100kHz	100nF	Also network power line protection	
	ZP38	38	19	10A	0	50	2	1mA	45	100kHz	100nF		
POWER	SHUNT 110/230v	ZMOV-1	110	19	Shunt Device	n/a	n/a	1	1mA	220	n/a	n/a	Mains Supply Shunt Barrier 420J. Use them in IPU option complete with isolating fuse for integrated protection High Energy Shunt Barrier > 1100J (Use 3 off for 3 Phase)
		ZMOV-2	230	19		n/a	n/a	1	1mA	650	n/a	n/a	
		ZM1000-1	110	40		n/a	n/a	3	1mA	220	n/a	n/a	
		ZM1000-2	230	40		n/a	n/a	3	1mA	650	n/a	n/a	
	SHUNT and FILTERED 110/230v	ZM06-1	110	19	6 A	n/a	60	2	1mA	220	100kHz	n/a	Mains Supply Barrier and Hi Spec Filter - Provides a clean supply. Choose ZM06 for 6 A max line current and ZM20 for 20 Amp. Again, ideal in a BU enclosure option as they are supplied pre-wired complete with isolating fuse
		ZM06-2	230	19	6 A	n/a	60	2	1mA	650	100kHz	n/a	
		ZM20-1	110	19	20 A	n/a	55	3	1mA	220	100kHz	n/a	
		ZM20-2	230	19	20 A	n/a	55	3	1mA	650	100kHz	n/a	
AERIAL and Co-Ax	ZA90	90	40	50W	n/a	n/a	n/a	n/a	90	3GHz	5pF	Aerial, Co-Ax, PACNET, SCADA , Networks	
	ZA350	350	40	800W	n/a	n/a	n/a	n/a	350	2GHz	4pF	Choose ZA350 for higher power throughput	

Zymax reserve the right to alter specifications without notice. These figures are given in good faith and verified as necessary. No legal responsibility can be accepted in conjunction with these figures. They are merely figure of merit that will help in making the final choice of barrier and issued as a guide only. Specifications can also improve so the user is recommended to consult the factory for more information from time to time - see zymax.com. All products though are fully tested and Warranted.

Designed to meet and tested where appropriate to EN60950, EN55022, BS6651, EN410003, EN61000-4-5. These barriers will fit onto DIN rail, Consumer Unit and IP enclosures.