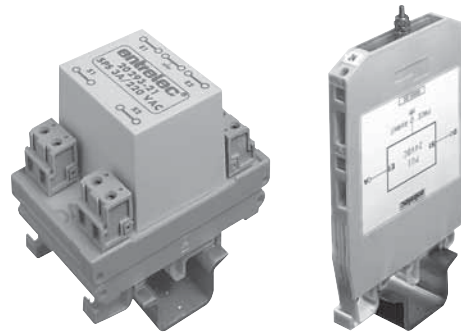


# Low power surge protection



## Low power surge protection



### Index

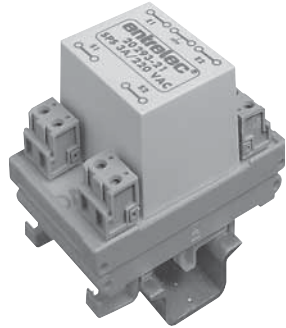
Blocks with gas discharge; compression clamp .....	14.7
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Terminal block style varistor .....	14.10

Low power surge protection

# Protection modules

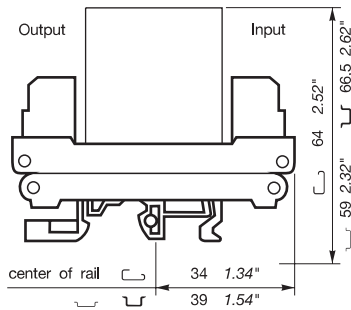
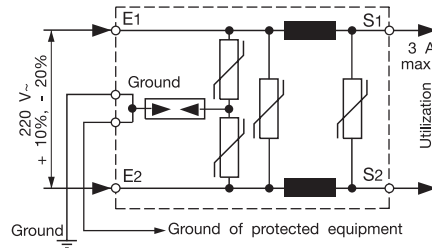
## Surge protection units

### Series 20 000, DIN 1-3



Surge protection unit  
SPS 3/220  
3 A - 220 V AC/DC

Spacing 48.5 mm 1.91"



Designed for use on low voltage networks in an industrial environment, Entelec SPS products are compatible with isolated or impedance grounded neutral networks. Doubled terminals, wire size of each terminal 2,5 mm<sup>2</sup> 14 AWG.

14

### Part numbers

Type	Catalog number
SPS 3/220	1SNA020293R2100

Approvals (Contact Entelec)



### Characteristics

Peak voltage on output in differential mode in volts

Wave flow current

Test carried out with hybrid generator

6 kV / 3 kA impedance 2 Ω

High wire size connection

(1.2 / 50 μs - 8 / 20 μs wave)

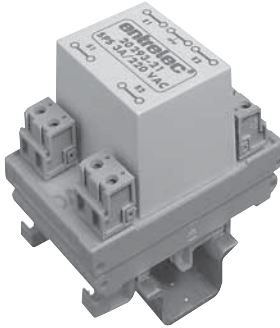
	surge in common mode	surge in differential mode
5 surges of 3 kA	1060 V	1080 V
10 surges of 2.5 kA	700 V	750 V
20 surges of 2 kA	500 V	650 V
100 surges of 1 kA	450 V	600 V
10 <sup>3</sup> surges of 600 A	450 V	600 V
10 <sup>4</sup> surges of 250 A	430 V	530 V

Accessories, marking, wire size : see Accessories section.

# Protection modules

## Surge protection units

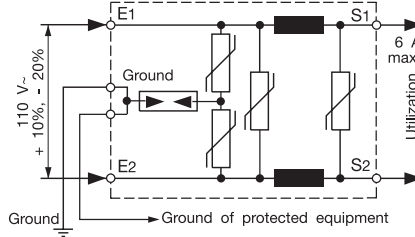
### Series 20 000, DIN 1-3



#### Surge protection unit SPS 6/110

6 A - 110 V AC/DC

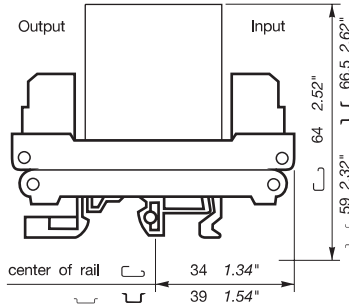
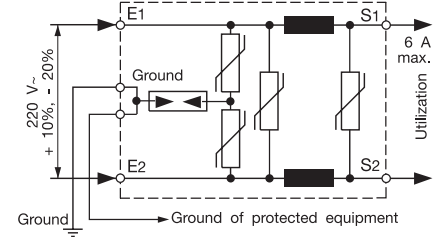
Spacing 48.5 mm 1.91"



#### Surge protection unit SPS 6/220

6 A - 220 V AC/DC

Spacing 48.5 mm 1.91"



Designed for use on low voltage networks in an industrial environment, Entelec SPS products are compatible with isolated or impedance grounded neutral networks.  
Doubled terminals, wire size of each terminal 2,5 mm<sup>2</sup> 14 AWG.

#### Part numbers

Type	Catalog number	Type	Catalog number
SPS 6/110	1SNA020292R2000	SPS 6/220	1SNA020291R2700

Approvals (Contact Entelec)



#### Characteristics

Peak voltage on output in differential mode in volts

Wave flow current

Test carried out with hybrid generator  
6 kV / 3 kA impedance 2 Ω  
High wire size connection  
(1.2 / 50 μs - 8 / 20 μs wave)

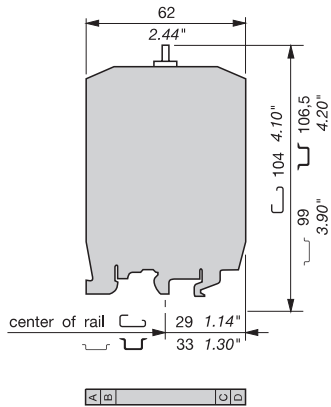
	surge in common mode	surge in differential mode	surge in common mode	surge in differential mode
5 surges of 3 kA	1340 V	1080 V	1350 V	980 V
10 surges of 2.5 kA	800 V	700 V	1060 V	780 V
20 surges of 2 kA	600 V	500 V	900 V	650 V
100 surges of 1 kA	550 V	450 V	850 V	600 V
10 <sup>3</sup> surges of 600 A	520 V	420 V	800 V	550 V

Accessories, marking, wire size : see Accessories section.

# Protection modules

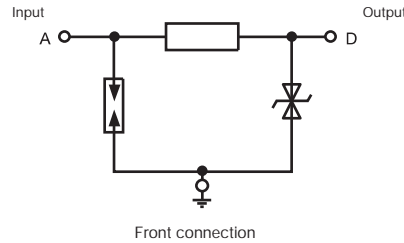
## Surge protection units

### Series 8000, DIN 1-3



**Surge protection unit**  
**DATA PU1 - 200**  
5 to 48 V DC

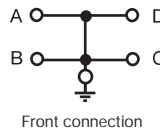
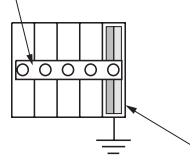
Spacing 9 mm .354"



- Protection of an active wire in relation to ground between "ZONE 1" and "ZONE 2"
- DC voltage.
- Cascade protection in common mode by discharger, power resistor, zener.
- Ground connection on front using a simple jumper bar.

- The use of a PRT and BJS jumper bar will provide an easy jumping method for ground connections. The PRT provides 4 screw terminal connections for ground connections.

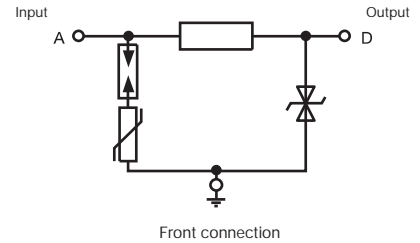
BJS9 8 poles 1SNA177583R1200  
BJS9 16 poles 1SNA177584R1300



1SNA008001R0100

**Surge protection unit**  
**DATA PU2 - 200**  
110 to 240 V AC

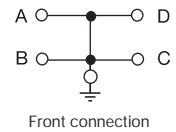
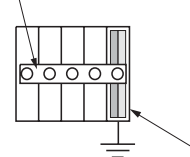
Spacing 9 mm .354"



- Protection of an active wire in relation to ground between "ZONE 1" and "ZONE 2"
- AC voltage.
- Cascade protection in common mode by discharger in series with varistor, power resistor, zener.
- Ground connection on front using a simple jumper bar.

- The use of a PRT and BJS jumper bar will provide an easy jumping method for ground connections. The PRT provides 4 screw terminal connections for ground connections.

BJS9 8 poles 1SNA177583R1200  
BJS9 16 poles 1SNA177584R1300



1SNA008001R0100

## 14 Part numbers

Type	Catalog number	Type	Catalog number
DATA PU1-200 5 V DC	1SNA008031R2600	DATA PU2-200 110 to 130 V AC	1SNA008035R2200
DATA PU1-200 12 V DC	1SNA008032R2700	DATA PU2-200 220 to 240 V AC	1SNA008036R2300
DATA PU1-200 24 V DC	1SNA008033R2000		
DATA PU1-200 48 V DC	1SNA008034R2100		

Approvals (Contact Entelec)



## Characteristics

	5 V DC				12 V DC				24 V DC				48 V DC				110 to 130 V AC		220 to 240 V AC													
	7 V DC				15 V DC				28 V DC				55 V DC				150 V AC		265 V AC													
Rated voltage $V_n$																																
Max. voltage $V_c$																																
Max. current $I_n$	0.2 A																															
Max. upstream fuse	0.2 A																															
Wave flow current	5 x 10 kA surges																															
(test conducted with a 20 kV / 10 kA hybrid generator) (1.2 / 50 $\mu$ s - 8 / 20 $\mu$ s wave)	10 x 2.5 kA surges				20 x 2 kA surges				100 x 1 kA surges				10 <sup>3</sup> x 600 A surges				10 <sup>4</sup> x 250 A surges				5 x 5 kA surges		10 x 2.5 kA surges		20 x 2 kA surges		100 x 1 kA surges		10 <sup>3</sup> x 600 A surges		10 <sup>4</sup> x 250 A surges	
Response frequency - 1 dB	1 MHz / 150 $\Omega$																															
Serial / Line resistance	10 $\Omega$																															
Peak voltage on output = protection level $V_p$	6 kV / 3 kA				< 25 V				< 60 V				< 100 V				< 200 V				< 400 V		< 800 V									
	1 kV / $\mu$ s				< 10 V				< 20 V				< 40 V				< 80 V				< 280 V		< 500 V									
Tightening torque on front connection (Nm)	0.4 min. / 0.6 max.																															
Degree of protection	IP20																															

## TEMPERATURE

Ambient temperature

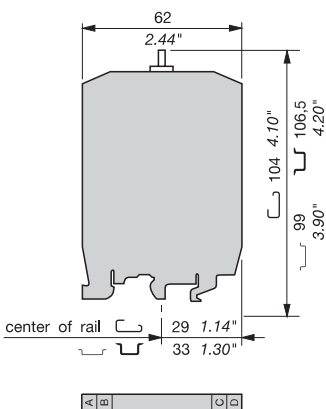
Storage	- 40°C to + 80°C	- 40°C to + 80°C
Operating	- 20°C to + 50°C	- 20°C to + 50°C

Accessories, marking, wire size : see Accessories section.

# Protection modules

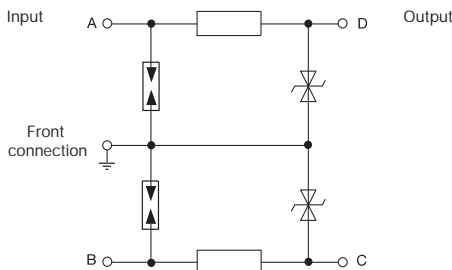
## Surge protection units

### Series 8000, DIN 1-3

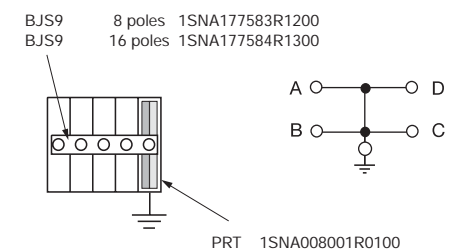


#### Surge protection unit DATA PU3 - 200

5 to 48 V DC  
Spacing 9 mm .354"

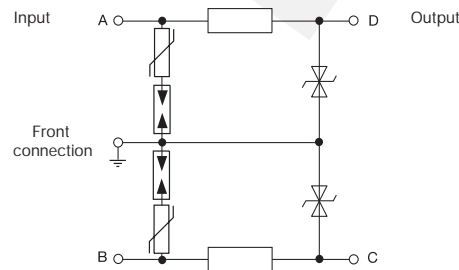


- Protection of two active wires in relation to ground between "ZONE 1" and "ZONE 2".
- DC voltage.
- Protection in common mode and in differential mode by discharger, power resistor, zener.
- Ground connection on front using a simple jumper bar.
- The use of a PRT and BJS jumper bar will provide an easy jumping method for ground connections. The PRT provides 4 screw terminal connections for ground connections.

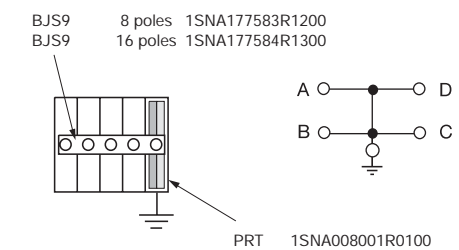


#### Surge protection unit DATA PU4 - 200

110 to 240 V AC  
Spacing 9 mm .354"



- Protection of two active wires in relation to ground between "ZONE 1" and "ZONE 2".
- AC voltage.
- Protection in common mode and in differential mode by discharger in series with varistor, power resistor, zener.
- Ground connection on front using a simple jumper bar.
- The use of a PRT and BJS jumper bar will provide an easy jumping method for ground connections. The PRT provides 4 screw terminal connections for ground connections.



#### Part numbers

Type	Catalog number	Type	Catalog number
DATA PU3-200 5 V DC	1SNA008029R0400	DATA PU4-200 110 to 130 V AC	1SNA008039R0600
DATA PU3-200 12 V DC	1SNA008030R0100	DATA PU4-200 220 to 240 V AC	1SNA008040R1300
DATA PU3-200 24 V DC	1SNA008037R2400		
DATA PU3-200 48 V DC	1SNA008038R0500		

Approvals (Contact Entrelec)



#### Characteristics

Rated voltage Max. voltage	$V_n$ $V_c$	5 V DC 7 V DC	12 V DC 15 V DC	24 V DC 28 V DC	48 V DC 55 V DC	110 to 130 V AC 150 V AC	220 to 240 V AC 265 V AC
Max. current Max. upstream fuse Wave flow current (test conducted with a 20 kV / 10 kA hybrid generator) (1.2 / 50 $\mu$ s - 8 / 20 $\mu$ s wave)	$I_n$	0.2 A 0.2 A 5 x 10 kA surges 10 x 2.5 kA surges 20 x 2 kA surges 100 x 1 kA surges 10 <sup>3</sup> x 600 A surges 10 <sup>4</sup> x 250 A surges				0.2 A 0.2 A 5 x 5 kA surges 10 x 2.5 kA surges 20 x 2 kA surges 100 x 1 kA surges 10 <sup>3</sup> x 600 A surges 10 <sup>4</sup> x 250 A surges	
Response frequency - 1 dB		1 MHz / 150 $\Omega$				1 MHz / 150 $\Omega$	
Serial / Line resistance Peak voltage on output = protection level Vp		10 $\Omega$				10 $\Omega$	
		< 25 V < 10 V < 20 V	< 60 V < 20 V < 40 V	< 100 V < 40 V < 80 V	< 200 V < 80 V < 160 V	< 400 V < 280 V < 560 V	< 800 V < 500 V < 1000 V
Tightening torque on front connection (Nm) Degree of protection		0.4 min. / 0.6 max. IP20				0.4 min. / 0.6 max. IP20	

#### TEMPERATURE

Ambient temperature

Storage

Operating

- 40°C to + 80°C

- 20°C to + 50°C

- 40°C to + 80°C

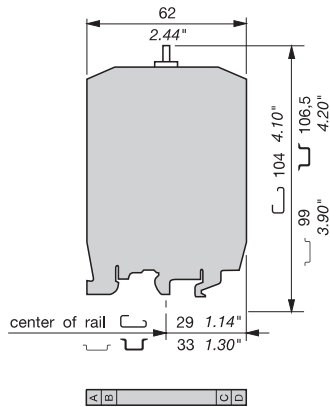
- 20°C to + 50°C

Accessories, marking, wire size : see Accessories section.

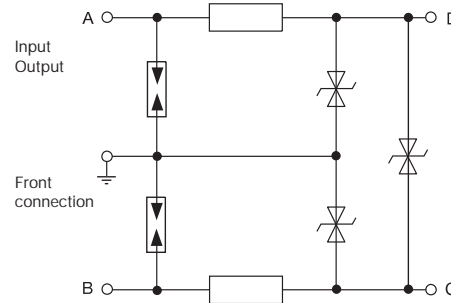
# Protection modules

## Surge protection units

### Series 8000, DIN 1-3

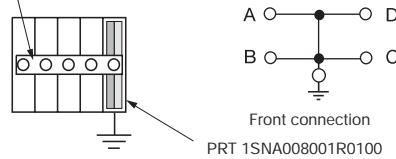


**Surge protection unit**  
**DATA PU5 - 200**  
 5 V DC  
 Spacing 9 mm .354"



- Protection of two active wires in relation to ground between "ZONE 1" and "ZONE 2" - DC voltage.
- Protection in common mode and in differential mode by discharger, power resistor, zener.
- Ground connection on front using a simple jumper bar.
- Addition of a 6.8 V transorb in differential mode for 5 V application (RS 422/485).
- The use of PRT and BJS jumper bar will provide an easy jumping method for ground connections. The PRT provides 4 screw terminal connections for ground connections.

BJS9 8 poles 1SNA177583R1200  
 BJS9 16 poles 1SNA177584R1300



### Part numbers

	Type	Catalog number
	DATA PU5-200 5 V DC	1SNA008001R0100
Approvals (Contact Entelec)		

### Characteristics

Rated voltage $V_n$	24 V in DC	5 V in DM
Max. voltage $V_c$	28 V in CM	5.8 V in DM
Max. current $I_n$	0.2 A	
Max. upstream fuse	0.2 A	
Wave flow current (test conducted with a 20 kV / 10 kA hybrid generator) (1.2 / 50 $\mu$ s - 8 / 20 $\mu$ s wave)	5 x 10 kA surges 10 x 2.5 kA surges 20 x 2 kA surges 100 x 1 kA surges 10 <sup>3</sup> x 600 A surges 10 <sup>4</sup> x 250 A surges	
Response frequency - 1 dB	1 MHz / 150 $\Omega$	
Serial / Line resistance	10 $\Omega$	
Peak voltage on output = protection level $V_p$	6 kV / 3 kA 1 kV / $\mu$ s CM 1 kV / $\mu$ s DM	
Tightening torque on front connection (Nm)	0.4 min. / 0.6 max.	
Degree of protection	IP20	
<b>TEMPERATURE</b>		
Ambient temperature		
Storage	- 40°C to + 80°C	
Operating	- 20°C to + 50°C	

Accessories, marking, wire size : see Accessories section.

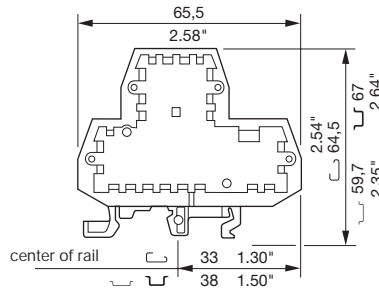
# Blocks with gas discharge; compression clamp

surge protection

## M 4/9.PE.90

Spacing 9 mm .354"

M 4/9 block equipped with a 3 mm end plate and a gas discharger between two decks.



Color	Type	Catalog number
Grey	M 4/9.PE.90	1SNA007028R2200



## Characteristics

Static priming voltage	min.	75 V
	nominal	90 V
	max.	105 V
Dynamic priming voltage (1 kV / $\mu$ s)		730 V
Max. operating voltage	DC	70 V
	AC	50 V
Discharge shock current (8 / 20 $\mu$ s wave)		5 kA
AC discharge current		5 A (1s, 50 Hz)
Capacity pF		$\approx$ 1 pF
Residual voltage with stable arc		10 V
Voltage with discharge		75 V

## Characteristics

		IEC		UL	CSA
		NFC	DIN		
Wire size	Screw	Solid wire	0,2-4 mm <sup>2</sup>		
		Stranded wire	0,22-4 mm <sup>2</sup>		
	Soldered	Solid wire			
		Stranded wire			
Rated voltage	Nominal				
	Pulse				
	Pollution degree				
Rated current A	Nominal	26			
Rated wire size	Nominal / Gauge	4 mm <sup>2</sup> / A4			

## Other Characteristics

	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
	8,5 mm .33"	4 mm	0,4-0,6 Nm 3,5-5,3 lb.in	IP 20 NEMA 1

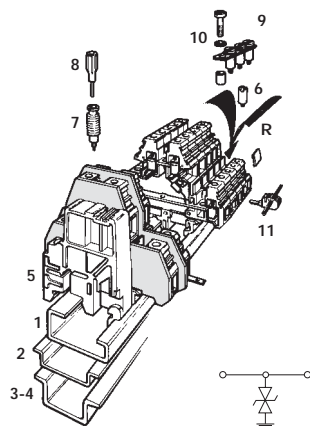
## Accessories

Type			Catalog number
Sub-assembly for jumper bar (screw+washer+post!)	BJS9 ①②	8 poles	1SNA177583R1200
IDC Jumper	BJS9 ①②	16 poles	1SNA177584R1300

- ① These accessories can be used on the lower connection only.
- ② Use of these accessories requires the user to cut out the partition.
- ③ Between e1-m or e2-m.
- ④ Between e1-e2.
- ⑤ Voltage for component. For max. voltage, refer to rated voltage of the partition.

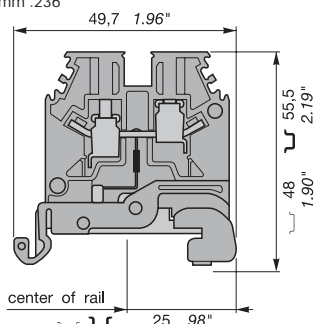
Low power surge protection

## Terminal block style Transzorb diode suppressor Compression clamp



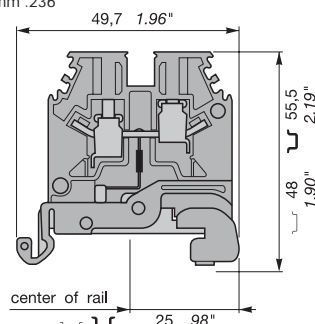
D 4/6.PZ.../...

DC  
Spacing 6 mm .236"



D 4/6.PZ.../...

AC  
Spacing 6 mm .236"



CE				CE			
Type	Catalog number			Type	Catalog number		
Green body				Green body			
D 4/6.PZ 24/15	24 V DC	1SNA007035R1100		D 4/6.PZ 48/24	24 V AC	1SNA007034R1000	
D 4/6.PZ 48/24	48 V DC	1SNA007034R1000					
Spring-loaded rail contact				Spring-loaded rail contact			

### Characteristics

Type	Rated voltage		Breakdown voltage		Maximum surge current				Leakage current	Stand-off voltage	Capacitance
	± 20% DC (V)	± 10% AC (V)	mini.	maxi.	Clamping voltage		8/20 μs Ipp (A)				
					10/1000 μs VCL (V)	10/1000 μs Ipp (A)		8/20 μs VCL (V)	8/20 μs Ipp (A)	IRM (μA)	VRM (V)
D 4/6.PZ 24/15	24	15	33,3	36,8	48,4	10,3			3	30	
D 4/6.PZ 48/24	48	24	64,6	71,4	92	6,5	121	59,5	5	58,1	625

Note : Given for 600 W in 10/1000 μs and 7,2 kW in 8/20 μs.

### Characteristics

Wire sizes	Compression clamp	Solid wire	NFC	DIN	UL	CSA	NFC	DIN	UL	CSA
			0,2-4 mm <sup>2</sup>				0,2-4 mm <sup>2</sup>			
		Stranded wire	0,22-4 mm <sup>2</sup>				0,22-4 mm <sup>2</sup>			
Rated voltage	V	-								
Rated current	A	=								
Rated wire size										

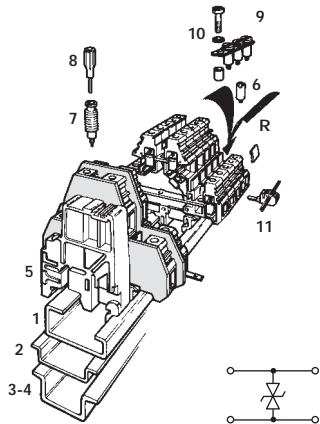
### Other Characteristics

	Wire stripping length	Recommended screwdriver	Recommended torque	Protection	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
	9,5 mm .37"	4 mm	0,5-0,8 Nm 4.4-7.1 lb.in	IP 00	9,5 mm .37"	4 mm .37"	0,5-0,8 Nm 4.4-7.1 lb.in	IP 00

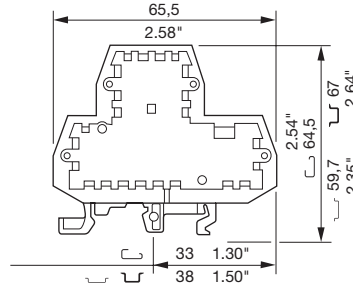
R See section on markers marking method

# Terminal block style Transzorb diode suppressor Compression clamp Series 7 000; Compression clamp, DIN 1-3

surge protection

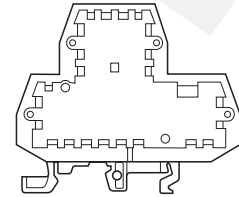


**M 4/9.PZ.../...**  
5 to 130 V DC  
Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional silicon transient voltage suppressor between two decks.

**M 4/9.PZ.../...**  
12 to 240 V AC  
Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional silicon transient voltage suppressor between two decks.

CE				CE			
Type	Catalog number			Type	Catalog number		
Grey body				Green body			
M 4/9.PZ5/3	5 V DC	1SNA007015R1500		M 4/9.PZ15/12	12 V AC	1SNA007017R1700	
M 4/9.PZ12/8	12 V DC	1SNA007016R1600		M 4/9.PZ24/15	15 V AC	1SNA007018R2000	
M 4/9.PZ15/12	15 V DC	1SNA007017R1700		M 4/9.PZ35/24	24 V AC	1SNA007019R2100	
M 4/9.PZ24/15	24 V DC	1SNA007018R2000		M 4/9.PZ60/48	48 V AC	1SNA007021R1300	
M 4/9.PZ48/36	48 V DC	1SNA007020R2600		M 4/9.PZ130/60	60 V AC	1SNA007022R1400	
M 4/9.PZ60/48	60 V DC	1SNA007021R1300		M 4/9.PZ187/130	110-130V AC	1SNA007023R1500	
M 4/9.PZ130/60	110-130V DC	1SNA007022R1400		M 4/9.PZ348/240	220-240V AC	1SNA007024R1600	

## Characteristics

Type	Rated voltage to ± 20%		Breakdown voltage		Maximum surge current Clamping voltage				Leakage current IRM (µA)	Stand-off voltage VRM (V)	Capacitance (pF)
	DC (V)	AC (V)	mini.	maxi.	10/1000 µs		8/20 µs				
					VCL (V)	Ipp (A)	VCL (V)	Ipp (A)			
M 4/9.PZ 5/3	5	3	6.45	7.48	10.5	143	13.4	1343	1000	5.8	22000
M 4/9.PZ 12/8	12	8	15.2	17.6	22.5	67	28.9	623	5	13.6	7000
M 4/9.PZ 15/12	15	12	20.9	24.2	30.6	49	39.3	458	5	18.8	5100
M 4/9.PZ 24/15	24	15	31.4	36.3	45.7	33	59	305	5	28.2	3250
M 4/9.PZ 35/24	35	24	44.7	51.7	64.8	23.2	84	214	5	40.2	2200
M 4/9.PZ 48/36	48	36	64.6	74.8	92	16.3	121	148	5	58.1	1500
M 4/9.PZ 60/48	60	48	86.5	100	125	12	162	111	5	77.8	1100
M 4/9.PZ 130/60	130	60	161	187	234	6.4	301	60	5	145	600
M 4/9.PZ 187/130	187	130	237	275	344	5	442	47	5	213	410
M 4/9.PZ 348/240	348	240	418	484	603	3.5	776	33	5	376	240

Note : Given for 1.5 W in 10/1000 µs and 18 kW in 8/20 µs.

## Characteristics

Wire sizes	Compression clamp	Solid wire	NFC	DIN	UL	CSA	NFC	DIN	UL	CSA
			Stranded wire	0,5-4 mm <sup>2</sup>					0,5-4 mm <sup>2</sup>	
Rated voltage	V	-								
Rated current	A	=								
Rated wire size			26				26			
			4 mm <sup>2</sup>				4 mm <sup>2</sup>			

## Other Characteristics

Wire stripping length	Recommended screwdriver	Recommended torque	Protection	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
8,5 mm .33"	4 mm	0,4-0,6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1	8,5 mm .33"	4 mm	0,4-0,6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1

## Accessories

Type	Catalog number		Type	Catalog number
Jumper bar not assembled	BJS9 ①② 8 poles	1SNA177583R1200	BJS9 ①② 8 poles	1SNA177583R1200
	BJS9 ①② 16 poles	1SNA177584R1300	BJS9 ①② 16 poles	1SNA177584R1300
R See section on markers marking method				

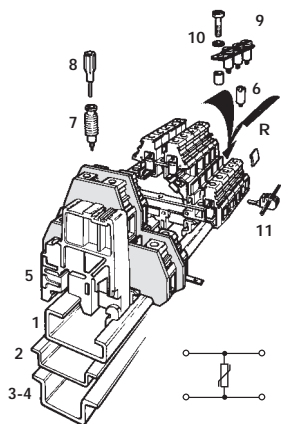
- ① These accessories can be used on the lower connection only.
- ② Use of these accessories requires the user to cut out the partition.

Low power surge protection

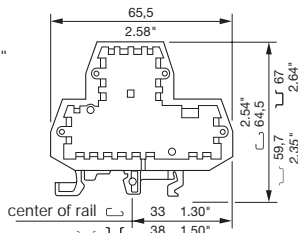
# Terminal block style varistor

## Blocks with varistor

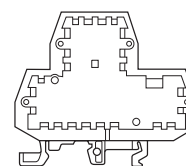
### Series 7 000



**M 4/9.PV.../...**  
5 to 130 V DC  
Spacing 9 mm .354"



**M 4/9.PV.../...**  
12 to 240 V AC  
Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional metal oxide transient voltage suppressor between two decks.

M 4/9 block equipped with a 3 mm end plate and a bidirectional metal oxide transient voltage suppressor between two decks.

Type	Catalog number	Type	Catalog number
Grey body		Green body	
M 4/9.PV 5/4	5 V DC 1SNA007004R2300	M 4/9.PV 15/12	12 V AC 1SNA007006R2500
M 4/9.PV 12/8	12 V DC 1SNA007005R2400	M 4/9.PV 24/15	15 V AC 1SNA007007R2600
M 4/9.PV 15/12	15 V DC 1SNA007006R2500	M 4/9.PV 35/24	24 V AC 1SNA007008R0700
M 4/9.PV 24/15	24 V DC 1SNA007007R2600	M 4/9.PV 60/48	48 V AC 1SNA007010R2400
M 4/9.PV 48/35	48 V DC 1SNA007009R0000	M 4/9.PV 130/60	60 V AC 1SNA007011R1100
M 4/9.PV 60/48	60 V DC 1SNA007010R2400	M 4/9.PV 165/110	110 V AC 1SNA007012R1200
M 4/9.PV 130/60	110-130 V DC 1SNA007011R1100	M 4/9.PV 270/130	130 V AC 1SNA007013R1300
		M 4/9.PV 508/240	220-240V AC 1SNA007014R1400

Protection in "ZONE 2"

Protection in "ZONE 2"

### Characteristics

Type	Max. operating voltage		Max. impulse current with an 8/20 μs current wave (A)	Varistor voltage at 1 mA DC test current		Peak clamping voltage with 8/20 μs wave		Capacitance (pF)
	DC (V)	AC (V)		min. (V)	max. (V)	Vc (V)	Ip (A)	
M 4/9.PV 5/4	5.5	4.2	250	6	11	20	5	12000
M 4/9.PV 12/8	14	10	500	14.4	21.6	39	5	6000
M 4/9.PV 15/12	22	17	500	23	31.1	53	5	4000
M 4/9.PV 24/15	26	20	500	29.5	36.5	64	5	3500
M 4/9.PV 35/24	38	30	500	42	52	89	5	2500
M 4/9.PV 48/35	56	40	500	61	75	123	5	1800
M 4/9.PV 60/48	81	60	2500	90	110	165	25	900
M 4/9.PV 130/60	153	115	2500	162	198	300	25	550
M 4/9.PV 165/110	180	140	2500	198	242	360	25	480
M 4/9.PV 270/130	300	230	2500	324	396	595	25	300
M 4/9.PV 508/240	560	420	2500	610	748	1120	25	220

Note : Average power dissipation of transient not to exceed 0.4 W.

### 14 Characteristics

Wire sizes	DIN-VDE	UL	CSA	NFC-UTE				
Rated voltage	V							
Rated current	A	26		30	26			30
Rated wire size		4 mm <sup>2</sup>		2.5 mm <sup>2</sup>	4 mm <sup>2</sup>			2.5 mm <sup>2</sup>

### Other Characteristics

Wire stripping length	DIA. screwdriver	Torque	Protection	Wire stripping length	DIA. screwdriver	Torque	Protection
8.5 mm .33"	4 mm	0.4-0.6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1	8.5 mm .33"	4 mm	0.4-0.6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1

Approvals (Contact Entelec)



### Accessories

	Type	Catalog number	Type	Catalog number
Jumper bar	BJS9 ①②	8 poles 1SNA177583R1200	BJS9 ①②	8 poles 1SNA177583R1200
(not preassembled)	BJS9 ①②	16 poles 1SNA177584R1300	BJS9 ①②	16 poles 1SNA177584R1300
R	See marking section			

① These accessories can be used on the lower connection only. (2) Use of these accessories requires the user to cut out the partition.

②