



Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge suppression devices in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g. LON<sup>®</sup> network, PROFIBUS network, binary signals).

**Features:**

- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

**Note:**

The coordination characteristics give information about the let-through energy of the overvoltage protector and the protection capacity.

**Data****Electrical data**

Nominal operating voltage	DC 48 V
Maximum continuous operating voltage	AC 38.5 V / DC 55 V
Nominal current	1.7 A
Nominal discharge current (8/20 $\mu$ s) per line	5 kA
Nominal discharge current (8/20 $\mu$ s) in total	10 kA
Voltage protection level line/line (cat. C2 at $I_N$ )	$\leq 100$ V
Voltage protection level line/PG (cat. C2 at $I_N$ )	$\leq 750$ V
Voltage protection level line/line (cat. C3 at $I_N$ )	$\leq 70$ V
Voltage protection level line/PG (cat. C3 at $I_N$ )	$\leq 650$ V
Response time line/line	$\leq 1$ ns
Response time line/PG	$\leq 100$ ns
Limit frequency line/line	10 MHz
Impedance	0.4 $\Omega$
Capacity line/line	$\leq 10$ pF
Capacity line/PG	$\leq 1$ pF

**Safety and protection:**

Protection class	IP00
Degree of protection with end and intermediate plate	IP20

**Connection data**

Connections (number)	5
Connection technology	

	CAGE CLAMP®		
Solid conductor	0.08	2.5 mm <sup>2</sup> / 28	14 AWG
Fine-stranded conductor	0.08	2.5 mm <sup>2</sup> / 28	14 AWG
Strip length	5	6 mm / 0.2	0.24 inch

### Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-35 rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch

### Mechanical data

Type of mounting	DIN-35 rail
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### Material Data

Color	gray
Weight	39.4 g

### Environmental Requirements

Surrounding air (operating) temperature	-40 80 °C
Surrounding air (storage) temperature	-40 80 °C

### Standards and specifications


Standards/specifications	IEC 61643-21
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### Commercial data

Product Group	21 (Special Products Electronic)
Country of origin	DE
GTIN	4017332780773
Customs Tariff No.	85363010900

### Compatible products

#### Jumper

	Item no.: 859-402 Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; light gray	859-402
	Item no.: 859-402/000-005 Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; red	859-402 /000-005

**Item no.: 859-402/000-006**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; blue

/000-006

859-402

**Item no.: 859-402/000-029**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; yellow

/000-029

859-402

**Item no.: 859-403**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; light gray

859-403

**Item no.: 859-403/000-005**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; red

/000-005

859-403

**Item no.: 859-403/000-006**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; blue

/000-006

859-403

**Item no.: 859-403/000-029**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; yellow

/000-029

859-403

**Item no.: 859-404**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; light gray

859-404

**Item no.: 859-404/000-005**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; red

/000-005

859-404

**Item no.: 859-404/000-006**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; blue

/000-006

859-404

**Item no.: 859-404/000-029**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; yellow

/000-029

859-404

**Item no.: 859-405**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; light gray

859-405

**Item no.: 859-405/000-005**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; red

/000-005

859-405

**Item no.: 859-405/000-006**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; blue

/000-006

859-405

**Item no.: 859-405/000-029**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; yellow

















/000-029
















859-405

















**Item no.: 859-406**

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; light gray

859-406

	<b>Item no.: 859-406/000-005</b> Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; red	859-406 /000-005
	<b>Item no.: 859-406/000-006</b> Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; blue	859-406 /000-006
	<b>Item no.: 859-406/000-029</b> Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; yellow	859-406 /000-029
	<b>Item no.: 859-407</b> Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; light gray	859-407
	<b>Item no.: 859-407/000-005</b> Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; red	859-407 /000-005
	<b>Item no.: 859-407/000-006</b> Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; blue	859-407 /000-006
	<b>Item no.: 859-407/000-029</b> Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; yellow	859-407 /000-029
	<b>Item no.: 859-408</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; light gray	859-408
	<b>Item no.: 859-408/000-005</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; red	859-408 /000-005
	<b>Item no.: 859-408/000-006</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; blue	859-408 /000-006
	<b>Item no.: 859-408/000-029</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; yellow	859-408 /000-029
	<b>Item no.: 859-409</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; light gray	859-409
	<b>Item no.: 859-409/000-005</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; red	859-409 /000-005
	<b>Item no.: 859-409/000-006</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; blue	859-409 /000-006
	<b>Item no.: 859-409/000-029</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; yellow	859-409 /000-029
	<b>Item no.: 859-410</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; light gray	859-410

	<b>Item no.: 859-410/000-005</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; red	859-410 /000-005
	<b>Item no.: 859-410/000-006</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; blue	859-410 /000-006
	<b>Item no.: 859-410/000-029</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; yellow	859-410 /000-029
<b>Marking accessories</b>		
	<b>Item no.: 2009-145</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; white	2009-145
	<b>Item no.: 2009-145/000-002</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	2009-145 /000-002
	<b>Item no.: 2009-145/000-005</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; red	2009-145 /000-005
	<b>Item no.: 2009-145/000-006</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; blue	2009-145 /000-006
	<b>Item no.: 2009-145/000-007</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; gray	2009-145 /000-007
	<b>Item no.: 2009-145/000-012</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; orange	2009-145 /000-012
	<b>Item no.: 2009-145/000-023</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; green	2009-145 /000-023
	<b>Item no.: 2009-145/000-024</b> Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; violet	2009-145 /000-024
	<b>Item no.: 210-110</b> Fiber-tip pen	210-110
	<b>Item no.: 248-450</b> Mini-WSB marking card; as card; MARKED; K1 - K10 (10x); not stretchable; Horizontal marking; snap-on type; white	248-450
	<b>Item no.: 248-451</b> Mini-WSB marking card; as card; MARKED; K11 - K20 (10x); not stretchable; Horizontal marking; snap-on type; white	248-451
	<b>Item no.: 248-452</b> Mini-WSB marking card; as card; MARKED; K (100x); not stretchable; Horizontal marking; snap-on type; white	248-452
	<b>Item no.: 248-453</b>	

	Mini-WSB marking card; as card; MARKED; U1, ... U10 (10x); not stretchable; Horizontal marking; snap-on type; white		248-453
	<b>Item no.: 248-454</b>		
	Mini-WSB marking card; as card; MARKED; U11 - U20 (10x); not stretchable; Horizontal marking; snap-on type; white		248-454
	<b>Item no.: 248-455</b>		
	Mini-WSB marking card; as card; MARKED; U 100 (10x); not stretchable; Horizontal marking; snap-on type; white		248-455
	<b>Item no.: 248-501</b>		
	Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card		248-501
	<b>Item no.: 248-501/000-002</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	/000-002	248-501
	<b>Item no.: 248-501/000-005</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-005	248-501
	<b>Item no.: 248-501/000-006</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-006	248-501
	<b>Item no.: 248-501/000-007</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-007	248-501
	<b>Item no.: 248-501/000-012</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-012	248-501
	<b>Item no.: 248-501/000-017</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-017	248-501
	<b>Item no.: 248-501/000-023</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-023	248-501
	<b>Item no.: 248-501/000-024</b>		
	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	/000-024	248-501
	<b>Item no.: 248-502/000-024</b>		
	Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	/000-024	248-502
	<b>Item no.: 248-503/000-024</b>		
	Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	/000-024	248-503
	<b>Item no.: 248-504</b>		
	Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white		248-504
	<b>Item no.: 248-504/000-024</b>		
	Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on	/000-024	248-504

type; white



**Item no.: 248-505/000-024**

Mini-WSB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; violet

000-024

248-505



**Item no.: 248-566**

Mini-WSB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

248-566

**tools**



**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

210-720

**End plate**



**Item no.: 859-525**

End and intermediate plate; 1 mm thick; gray

859-525

**Downloads**

**Documentation**

**Additional Information**

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

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265.8 kB

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