

Data sheet | Item number: 280-638

Terminal block for pluggable modules; 8-pole; with 2-conductor terminal blocks; with orange separator; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray



280-638



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:

Data

Electrical data

Rated continuous current	10 A
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Safety and protection:

Rated voltage	400 V
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Rated impulse voltage	6 kV
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Pollution degree	3
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Connection data

Total number of potentials	2
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Number of connection types	2
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Connection technology	CAGE CLAMP®
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Solid conductor	0.08 2.5 mm ² / 28 14 AWG
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Fine-stranded conductor	0.08 2.5 mm ² / 28 14 AWG
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Strip length	8 9 mm / 0.31 0.35 inch
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Type of wiring	Front-entry wiring
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Geometrical Data

Width	22 mm / 0.866 inch
Height from upper-edge of DIN-35 rail	28 mm / 1.102 inch
Depth	50 mm / 1.969 inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Color	gray
Fire load	0.431 MJ
Weight	20.875 g

Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
Country of origin	DE
GTIN	4044918538794
Customs Tariff No.	85369010000

Compatible products

Carrier rail

	Item no.: 210-112 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm"	210-112
	Item no.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715	210-113
	Item no.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715	210-114
	Item no.: 210-115 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm"	210-115
	Item no.: 210-118	

	Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715	210-118
	Item no.: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	210-196
	Item no.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715	210-197
	Item no.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	210-198
	Item no.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715	210-504
	Item no.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715	210-505
	Item no.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715	210-506
	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715	210-508
General accessories		
	Item no.: 286-110 Empty component plug housing; Type 9; 10 mm wide; 4-pole; gray	286-110
	Item no.: 286-111 Empty component plug housing; Type 10; 15 mm wide; 6-pole; gray	286-111
	Item no.: 286-112 Empty component plug housing; Type 11; 20 mm wide; 8-pole; gray	286-112
	Item no.: 286-113 Empty component plug housing; Type 12; 25 mm wide; 10-pole; gray	286-113
	Item no.: 286-304 Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 7 A; Red status indicator; Module width: 15 mm; gray	286-304
	Item no.: 286-304/004-000 Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 7 A; Path; Red status indicator; Module width: 15 mm; gray	286-304 /004-000
	Item no.: 286-307/004-000 Relay module; Nominal input voltage: 110 VDC; 1 changeover contact; Limiting continuous current: 7 A; Path; Red status indicator; Module width: 15 mm; gray	286-307 /004-000
	Item no.: 286-312 Relay module; Relay with 2 changeover contacts (2u); gray	286-312
	Item no.: 286-312/004-000 Relay module; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 7 A; Path; Red status indicator; Module width: 20 mm; gray	286-312 /004-000
	Item no.: 286-316 Relay module; Nominal input voltage: 220 VDC; 2 changeover contacts; Limiting continuous current: 7 A; Red status indicator; Module width: 20 mm; gray	286-316

	Item no.: 286-320 Relay module; Nominal input voltage: 24 VDC; 1 break and 1 make contact; Limiting continuous current: 6 A; Red status indicator; Module width: 20 mm; gray	286-320
	Item no.: 286-320/004-000 Relay module; Nominal input voltage: 24 VDC; 1 break and 1 make contact; Path; Red status indicator; Module width: 20 mm; gray	286-320 /004-000
	Item no.: 286-328 Relay module; Nominal input voltage: 24 VDC; 2 make contact; Limiting continuous current: 6 A; Red status indicator; Module width: 20 mm; gray	286-328
	Item no.: 286-328/004-000 Relay module; Nominal input voltage: 24 VDC; 2 make contact; Limiting continuous current: 6 A; Path; Red status indicator; Module width: 20 mm; gray	286-328 /004-000
	Item no.: 286-336/001-000 Relay module; Nominal input voltage: 24 VDC; 2 break and 2 make contacts; Red status indicator; Module width: 25 mm; gray	286-336 /001-000
	Item no.: 286-344/004-000 Relay module; Nominal input voltage: 24 VDC; 3 break contacts and 1 make contact; Path; Red status indicator; Module width: 25 mm; gray	286-344 /004-000
	Item no.: 286-352/004-000 Relay module; Nominal input voltage: 24 VDC; 4 make contacts; Limiting continuous current: 5 A; Path; Red status indicator; Module width: 25 mm; gray	286-352 /004-000
	Item no.: 286-364 Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 5 A; Red status indicator; Module width: 10 mm; gray	286-364
	Item no.: 286-364/004-000 Relay module; Nominal input voltage: 24 VDC; 1 make contact; Path; Red status indicator; Module width: 10 mm; gray	286-364 /004-000
	Item no.: 286-368 Relay module; Nominal input voltage: 24 VDC; 1 break contact; Limiting continuous current: 5 A; Red status indicator; Module width: 10 mm; gray	286-368
	Item no.: 286-368/004-000 Relay module; Nominal input voltage: 24 VDC; 1 break contact; Path; Red status indicator; Module width: 10 mm	286-368 /004-000
	Item no.: 286-376 Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 5 A; for switching higher DC loads; Red status indicator; Module width: 15 mm; gray	286-376
	Item no.: 286-380 Bistable relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Red status indicator; Module width: 15 mm; gray	286-380
	Item no.: 286-381 Bistable relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Red status indicator; Module width: 15 mm; gray	286-381
	Item no.: 286-394/004-000 Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Path; Red status indicator; Module width: 15 mm; light gray	286-394 /004-000
	Item no.: 286-427 Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 5 A; Pulse lengthening: 1 ... 10 s; Red status indicator; Module width: 20 mm; gray	286-427

	Item no.: 286-507 Relay module; Nominal input voltage: 115 VAC; 1 changeover contact; Limiting continuous current: 7 A; Red status indicator; Module width: 15 mm; gray	286-507
	Item no.: 286-508 Relay module; Nominal input voltage: 230 VAC; 1 changeover contact; Limiting continuous current: 7 A; Red status indicator; Module width: 15 mm; gray	286-508
	Item no.: 286-516 Relay module; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 7 A; Red status indicator; Module width: 15 mm; gray	286-516
	Item no.: 286-573 Latching relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Red status indicator; Module width: 15 mm	286-573
	Item no.: 286-575 Latching relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 3 A; Path; Red status indicator; Module width: 22 mm	286-575
	Item no.: 286-604/004-000 Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 6 A; On-delay: 10 ... 100 s; Red status indicator; Module width: 20 mm; gray	286-604 /004-000
	Item no.: 286-640 Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 6 A; Path; Multifunction/Multitime; Yellow status indicator; Module width: 6 mm; gray	286-640
	Item no.: 286-640/004-000 Multifunction timing relay module; Relay with 1 changeover contact (1u); 4 time ranges; for railway operations; 4 functions; gray	286-640 /004-000
	Item no.: 286-661 Current flow monitoring module; AC current flow monitoring module; 80 mA ... 6 A; light gray	286-661
	Item no.: 286-662 Current flow monitoring module; DC current flow monitoring module; 0.4 A ... 3.5 A; Relay with 1 make contact (1a); light gray	286-662
	Item no.: 286-664 Current flow monitoring module; AC current flow monitoring module; 1 A ... 10 A; Adjustable; Relay with 1 changeover contact (1u); light gray	286-664
	Item no.: 286-665 Current flow monitoring module; Relay with 1 changeover contact (1u); Adjustable; light gray	286-665
	Item no.: 286-721 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 15 ... 30 VDC; Limiting continuous current: 5 A; 3-wire connection/low-side switching; Red status indicator; Module width: 15 mm; gray	286-721
	Item no.: 286-723 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 15 ... 30 VDC; Limiting continuous current: 4 A; 3-wire connection/high-side switching; Red status indicator; Module width: 15 mm; gray	286-723
	Item no.: 286-725 Optocoupler module; Input AC/DC 10 V ... 30 V; Output DC 24 V/ 1 mA ... 0.5 A; negative switching; gray	286-725
	Item no.: 286-742 S0 interface power supply; Input voltage: 230 VAC; S0 interface	286-742
	Item no.: 286-752 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 ... 30 VDC; Limiting	

	continuous current: 0.5 A; 3-wire connection/high-side switching; Frequency: 25 kHz; Red status indicator; Module width: 15 mm; gray	286-752
	Item no.: 286-752/002-000 Optocoupler module; Red status indicator; gray	286-752 /002-000
	Item no.: 286-790 Optocoupler module; gray	286-790
	Item no.: 286-791 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 ... 60 VDC; Limiting continuous current: 0.1 A; 2-wire connection; Frequency: 3 kHz; Red status indicator; Module width: 10 mm; gray	286-791
	Item no.: 286-792 Optocoupler module; Red status indicator; gray	286-792
	Item no.: 286-794 Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 ... 60 VDC; Limiting continuous current: 0.1 A; 2-wire connection; Red status indicator; Module width: 10 mm; gray	286-794
	Item no.: 286-797 Optocoupler module; Red status indicator	286-797
	Item no.: 286-803 Component module with diode; light gray	286-803
	Item no.: 286-805 Component module with diode; light gray	286-805
	Item no.: 286-807 Component module with diode; with 7 pcs; Diode 1N4007; with common anode; light gray	286-807
	Item no.: 286-809 Component module with diode; light gray	286-809
	Item no.: 286-822 Component module with LED; Red LED; with common cathode	286-822
	Item no.: 286-826 AND gate module with 6 inputs; light gray	286-826
	Item no.: 286-830 Bridge rectifier module; Input voltage: 24 VAC; with varistor protective circuit; gray	286-830
	Item no.: 286-831 Surge suppression module for signal technology; Nominal voltage: 24 VAC/DC; for 2 signal paths with common surge arrester; plugged on rail-mount terminal block, 15 mm wide; gray	286-831
	Item no.: 286-832 Surge suppression module for signal technology; Nominal voltage: 24 VAC/DC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 20 mm wide; gray	286-832
	Item no.: 286-833 Surge suppression module for signal technology; Nominal voltage: 24 VDC; for 1 signal path; plugged on rail-mount terminal block, 15 mm wide; gray	286-833
	Item no.: 286-834 Surge suppression module for signal technology; Nominal voltage: 12 VDC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 20 mm wide; gray	286-834
	Item no.: 286-834/024-000	

	Surge suppression module for signal technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 15 mm wide; gray	286-834	/024-000
	Item no.: 286-835 Surge suppression module for signal technology; Nominal voltage: 230 VAC; for 2 signal paths with common surge arrester; plugged on rail-mount terminal block, 15 mm wide	286-835	
	Item no.: 286-835/115-000 Surge suppression module for signal technology; Nominal voltage: 115 VAC; for 2 signal paths with common surge arrester; plugged on rail-mount terminal block, 15 mm wide; gray	286-835	/115-000
	Item no.: 286-836 Surge suppression module for signal technology; Nominal voltage: 24 VAC/DC; for 2 signal paths with common surge arrester; plugged on rail-mount terminal block, 15 mm wide; gray	286-836	
	Item no.: 286-838 Surge suppression module for signal technology; Nominal voltage: 230 VAC; for 2 signal paths with common surge arrester; with visual indicator; gray	286-838	
	Item no.: 286-840 Bridge rectifier module; Input voltage: 250 VAC; with varistor protective circuit; gray	286-840	
	Item no.: 286-841 Surge suppression module for signal technology; Nominal voltage: 220 VDC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 25 mm wide; gray	286-841	
	Item no.: 286-842 Surge suppression module for signal technology; Nominal voltage: 230 VAC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 25 mm wide; gray	286-842	
	Item no.: 286-843 Surge suppression module for signal technology; Nominal voltage: 115 VAC; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 25 mm wide; gray	286-843	
	Item no.: 286-844 Surge suppression module for signal technology; for 2 signal paths with common surge arrester; pluggable on rail-mount terminal block, 25 mm wide; gray	286-844	
	Item no.: 286-890 Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 24 VAC/DC; gray	286-890	
	Item no.: 286-891 Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 230 VAC/DC; gray	286-891	
	Item no.: 286-895 Switching module; with changeover rocker switch; Switching voltage: 250 VAC; Switching current: 6 A; gray	286-895	
	Item no.: 286-896 Switching module; with momentary switch; Switching voltage: 250 VAC; Switching current: 6 A; gray	286-896	
	Item no.: 786-102 Empty component plug housing; Type 15; 20 mm wide; 8-pole; gray	786-102	

Marking accessories

	Item no.: 2009-115 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; white	2009-115	
	Item no.: 2009-115/000-002 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	2009-115	/000-002

	Item no.: 2009-115/000-006 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; blue	/000-006	2009-115
	Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; gray	/000-007	2009-115
	Item no.: 2009-115/000-012 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; orange	/000-012	2009-115
	Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; light green	/000-017	2009-115
	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; green	/000-023	2009-115
	Item no.: 2009-115/000-024 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; violet	/000-024	2009-115
	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white		793-501
	Item no.: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-002	793-501
	Item no.: 793-501/000-005 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-005	793-501
	Item no.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-006	793-501
	Item no.: 793-501/000-007 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-007	793-501
	Item no.: 793-501/000-012 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-012	793-501
	Item no.: 793-501/000-017 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-017	793-501
	Item no.: 793-501/000-023 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-023	793-501
	Item no.: 793-501/000-024 WMB marking card; as card; not stretchable; plain; snap-on type; white	/000-024	793-501

**Item no.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

793-5501

**Item no.: 793-5501/000-002**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

/000-002

793-5501

**Item no.: 793-5501/000-005**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; red

/000-005

793-5501

**Item no.: 793-5501/000-006**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; blue

/000-006

793-5501

**Item no.: 793-5501/000-007**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; gray

/000-007

793-5501

**Item no.: 793-5501/000-012**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; orange

/000-012

793-5501

**Item no.: 793-5501/000-017**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; light green

/000-017

793-5501

**Item no.: 793-5501/000-023**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; green

/000-023

793-5501

**Item no.: 793-5501/000-024**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type; violet

/000-024

793-5501

Protective Warning Marker**Item no.: 280-415**

Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

280-415

ferrule**Item no.: 216-101**

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated

216-101

**Item no.: 216-102**

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated

216-102

**Item no.: 216-103**

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

216-103

**Item no.: 216-104**

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

216-104

**Item no.: 216-201**

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

216-201

**Item no.: 216-202**

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

216-202

	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	216-204
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	216-302
Jumper		
	Item no.: 210-103 Wire commoning chain; insulated; 50 connections; black	210-103
	Item no.: 210-123 Wire commoning chain; insulated; 50 connections	210-123
	Item no.: 280-402 Adjacent jumper; insulated; IN = IN terminal block; gray	280-402
	Item no.: 280-409 Alternate jumper; insulated; IN = IN terminal block; gray	280-409
	Item no.: 280-482 Comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray	280-482
	Item no.: 280-483 Comb-style jumper bar; insulated; 3-way; IN = IN terminal block; gray	280-483
	Item no.: 280-484 Comb-style jumper bar; insulated; 4-way; IN = IN terminal block; gray	280-484
	Item no.: 280-485 Comb-style jumper bar; insulated; 5-way; IN = IN terminal block; gray	280-485
	Item no.: 280-490 Comb-style jumper bar; insulated; 10-way; IN = IN terminal block; gray	280-490
	Item no.: 280-492 Alternate comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray	280-492
	Item no.: 709-110 Wire commoning chain; insulated; 4 connections; 3 x 110 mm; black	709-110
	Item no.: 709-111 Wire commoning chain; insulated; 3 connections; 2 x 120 mm; black	709-111
	Item no.: 709-112 Wire commoning chain; insulated; 3 connections; 2 x 170 mm; black	709-112
tools		
	Item no.: 210-657 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short	210-657
	Item no.: 210-658 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short	210-658



Item no.: 210-720

210-720

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

Insulation stop



Item no.: 280-470

280-470

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white

Item no.: 280-471

280-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

Item no.: 280-472

280-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip

assembling



Item no.: 209-106

209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray



Item no.: 210-148

210-148

Angled support bracket; without screw

Downloads

Documentation

Bid Text

280-638

Jan 22, 2016

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Basisklemmenblock

Additional Information

Disposal; Electrical and electronic equipment, Packaging

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Subject to changes.
