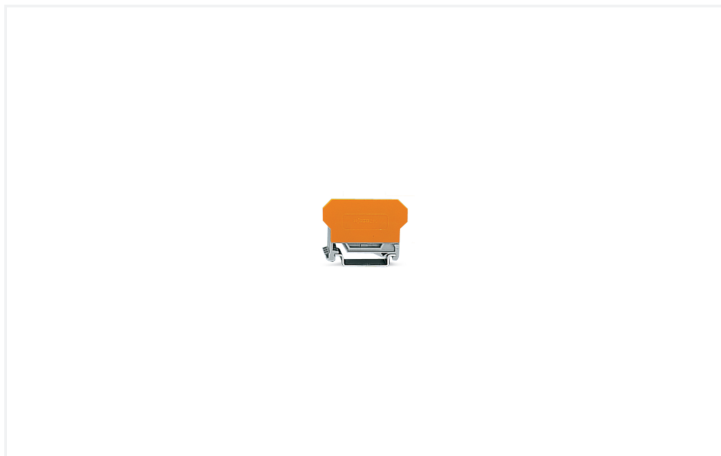


## Data Sheet | Item Number: 280-638

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 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/280-638>



Color: ■ gray

Similar to illustration

### Electrical data

Rated continuous current	10 A
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### Safety and protection

Rated Voltage	400 V
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Rated impulse withstand voltage	6 kV
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Pollution degree	3
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### Connection Data

Total number of potentials	2
----------------------------	---

Number of connection types	2
----------------------------	---

Connection technology	CAGE CLAMP®
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Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
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Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
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Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
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### Physical data

Width	22 mm / 0.866 inches
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Height	50 mm / 1.969 inches
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Depth from upper-edge of DIN-rail	28 mm / 1.102 inches
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**Mechanical data**

Mounting type	DIN-35 rail
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**Material data**

Color	gray
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**Commercial data**

Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	20 (1) pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918538794
Customs tariff number	85369010000

**Product Classification**

UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 10.0	EC000897
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Downloads**

**Environmental Product Compliance**

Compliance Search			
Environmental Product Compliance 280-638			<a href="#">↓</a>

**Documentation**

Bid Text			
280-638	19.02.2019	xml 2.71 KB	<a href="#">↓</a>
280-638	20.02.2019	docx 13.94 KB	<a href="#">↓</a>

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 280-638		EPLAN Data Portal 280-638	
		WSCAD Universe 280-638	
		ZUKEN Portal 280-638	

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories

<b>Item No.: 210-196</b> Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<b>Item No.: 210-198</b> Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<b>Item No.: 210-508</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	<b>Item No.: 210-197</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored
<b>Item No.: 210-506</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	<b>Item No.: 210-114</b> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<b>Item No.: 210-118</b> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<b>Item No.: 210-115</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored
<b>Item No.: 210-112</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored	<b>Item No.: 210-504</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	<b>Item No.: 210-113</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<b>Item No.: 210-505</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.1.2 Ferrule

1.1.2.1 Ferrule

<b>Item No.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<b>Item No.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<b>Item No.: 216-201</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white	<b>Item No.: 216-101</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored
<b>Item No.: 216-202</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<b>Item No.: 216-102</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored	<b>Item No.: 216-203</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<b>Item No.: 216-103</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; un-insulated; electro-tin plated
<b>Item No.: 216-204</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<b>Item No.: 216-104</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; un-insulated; electro-tin plated; silver-colored		

### 1.1.3 Installation

#### 1.1.3.1 Mounting accessories



**Item No.: 209-106**

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

### 1.1.4 Insulation stop

#### 1.1.4.1 Insulation stop



**Item No.: 280-470**

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white



**Item No.: 280-471**

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray



**Item No.: 280-472**

Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; black

### 1.1.5 Jumper

#### 1.1.5.1 Jumper



**Item No.: 280-490**

Jumper; 10-way; insulated; gray



**Item No.: 280-482**

Jumper; 2-way; insulated; gray



**Item No.: 280-492**

Jumper; 2-way; insulated; gray



**Item No.: 280-483**

Jumper; 3-way; insulated; gray



**Item No.: 280-484**

Jumper; 4-way; insulated; gray



**Item No.: 280-485**

Jumper; 5-way; insulated; gray



**Item No.: 280-402**

Jumper; insulated; gray



**Item No.: 280-409**

Jumper; insulated; gray



**Item No.: 709-110**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black



**Item No.: 709-111**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black



**Item No.: 709-112**

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black



**Item No.: 210-103**

Wire commoning chain; insulated; black



**Item No.: 210-123**

Wire commoning chain; insulated; blue

### 1.1.6 Marking

#### 1.1.6.1 Marker



**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



**Item No.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

### 1.1.7 Plug

#### 1.1.7.1 Empty component plug housing



**Item No.: 286-111**

Empty component plug housing; Type 10; 15 mm wide; 6-pole; gray



**Item No.: 286-112**

Empty component plug housing; Type 11; 20 mm wide; 8-pole; gray



**Item No.: 286-113**

Empty component plug housing; Type 12; 25 mm wide; 10-pole; gray



**Item No.: 786-102**

Empty component plug housing; Type 15; 20 mm wide; 8-pole; gray



**Item No.: 286-110**

Empty component plug housing; Type 9; 10 mm wide; 4-pole; gray

### 1.1.8 Protective warning marker

#### 1.1.8.1 Cover



**Item No.: 280-415**

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

### 1.1.9 Relay module

#### 1.1.9.1 AND gate module



**Item No.: 286-826**

AND gate module with 6 inputs; light gray

#### 1.1.9.2 Bridge rectifier module



**Item No.: 286-830**

Bridge rectifier module; Input voltage: 24 VAC; with varistor protective circuit; gray

#### 1.1.9.3 Component module with a fuse



**Item No.: 286-891**

Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 230 VAC/DC; gray



**Item No.: 286-890**

Component module with fuse; for (5 x 20) mm microfuse; Nominal voltage: 24 VAC/DC; gray

1.1.9.4 Component module with diode



**Item No.: 286-805**  
Component module with diode; with 5 pcs; Diode 1N4007; with common anode; gray

**Item No.: 286-807**  
Component module with diode; with 7 pcs; Diode 1N4007; with common anode; gray

**Item No.: 286-809**  
Component module with diode; with 9 pcs; Diode 1N4007; with common anode; gray

1.1.9.5 Component module with LED



**Item No.: 286-822**  
Component module with LED; Red LED; with common cathode

1.1.9.6 Current flow monitoring module



**Item No.: 286-661**  
Current flow monitoring module; AC currents; light gray

**Item No.: 286-664**  
Current flow monitoring module; AC currents; Monitoring range: 0.2 A – 3 A; 1 changeover contact; light gray

**Item No.: 286-665**  
Current flow monitoring module; AC currents; Monitoring range: 1 A – 10 A; 1 changeover contact; light gray

**Item No.: 286-662**  
Current flow monitoring module; DC currents; Monitoring range: 0.4 A – 3.5 A; 1 make contact; light gray

1.1.9.7 Optocoupler module



**Item No.: 286-725**  
Optocoupler module; gray

**Item No.: 286-790**  
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 30 VDC; Limiting continuous current: 0.5 A; gray

**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

**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



**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

**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

**Item No.: 286-794**  
Optocoupler module; Nominal input voltage: 24 VDC; Red status indicator; gray

**Item No.: 286-752/002-000**  
Optocoupler module; Nominal input voltage: 5 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



**Item No.: 286-792**  
Optocoupler module; Red status indicator; gray

1.1.9.8 Relay module



**Item No.: 286-380**  
Bistable relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 15 mm; gray

**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

**Item No.: 286-307/004-000**  
Relay module; Nominal input voltage: 110 VDC; 1 changeover contact; Limiting continuous current: 3 A; Railway; Red status indicator; Module width: 15 mm; gray

**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



**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

**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

**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

**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

1.1.9.8 Relay module



**Item No.: 286-320/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 break and 1 make contact; Railway; Red status indicator; Module width: 20 mm; gray



**Item No.: 286-368/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 break contact; Limiting continuous current: 3 A; Railway; Red status indicator; Module width: 10 mm; gray



**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



**Item No.: 286-394/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 1 A; with gold contacts; Railway; Red status indicator; Module width: 15 mm; light gray



**Item No.: 286-304/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Railway; Red status indicator; Module width: 15 mm; gray



**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



**Item No.: 286-364/004-000**

Relay module; Nominal input voltage: 24 VDC; 1 make contact; Limiting continuous current: 3 A; Railway; Red status indicator; Module width: 10 mm; gray



**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



**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



**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



**Item No.: 286-312/004-000**

Relay module; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 5 A; Railway; Red status indicator; Module width: 20 mm; gray



**Item No.: 286-312**

Relay module; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 7 A; Red status indicator; Module width: 20 mm; gray



**Item No.: 286-328/004-000**

Relay module; Nominal input voltage: 24 VDC; 2 make contact; Limiting continuous current: 5 A; Railway; Red status indicator; Module width: 20 mm; gray



**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



**Item No.: 286-344/004-000**

Relay module; Nominal input voltage: 24 VDC; 3 break contacts and 1 make contact; Railway; Red status indicator; Module width: 25 mm; gray



**Item No.: 286-352/004-000**

Relay module; Nominal input voltage: 24 VDC; 4 make contacts; Limiting continuous current: 5 A; Railway; Red status indicator; Module width: 25 mm; gray



**Item No.: 286-640/004-000**

Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 5 A; Railway; Multifunction; Red status indicator; Module width: 20 mm; gray



**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



**Item No.: 286-640**

Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 6 A; Railway; Multifunction/Multitime; Red status indicator; Module width: 20 mm; gray

1.1.9.9 S0 interface power supply unit



**Item No.: 286-742**

S0 interface power supply; Input voltage: 230 VAC; S0 interface

1.1.9.10 Switching module



**Item No.: 286-895**

Switching module; with changeover rocker switch; Switching voltage: 250 VAC; Switching current: 6 A; gray



**Item No.: 286-896**

Switching module; with momentary switch; Switching voltage: 250 VAC; Switching current: 6 A; gray

## 1.1.9.11 Timer relay module

**Item No.: 286-640/004-000**

Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 5 A; Railway; Multifunction; Red status indicator; Module width: 20 mm; gray

**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

**Item No.: 286-640**

Timer relay module; Nominal input voltage: 24 VDC; Limiting continuous current: 6 A; Railway; Multifunction/Multitime; Red status indicator; Module width: 20 mm; gray

## 1.1.10 Tool

## 1.1.10.1 Operating tool

**Item No.: 210-658**

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

**Item No.: 210-720**

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

**Item No.: 210-657**

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