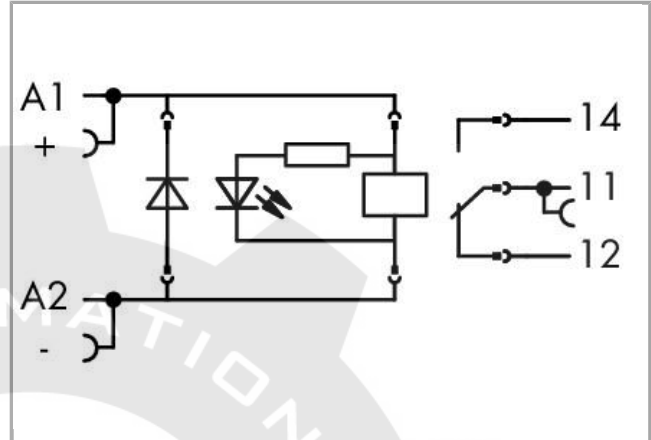
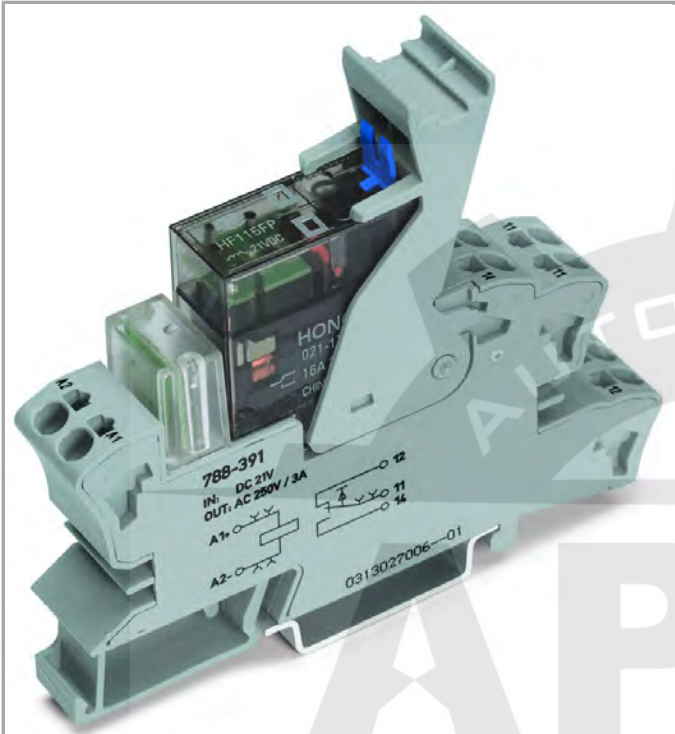


## Data sheet | Item number: 788-391

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact;  
Limiting continuous current: 16 A; with manual operation; Path; Red status  
indicator; Module width: 15 mm



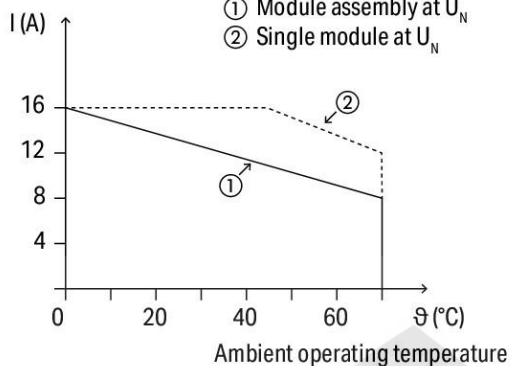
788-391



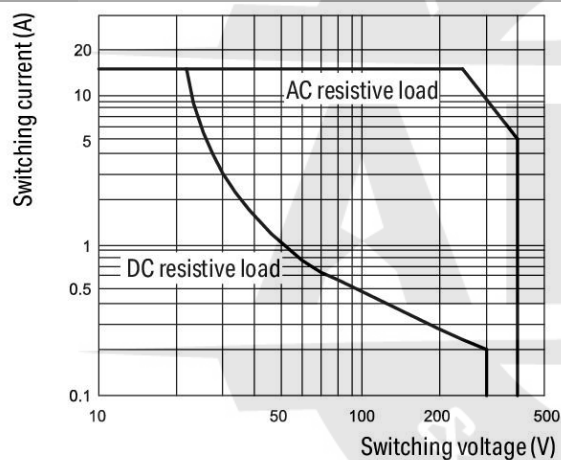
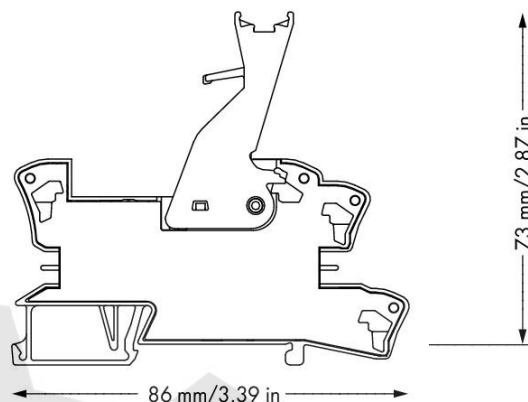
RoHS Compliant

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

Continuous current



Current-carrying capacity curve



Load limit curve

## Item description

### Note:

- Reinforced insulation between coil and contacts
- A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

## Data

### Technical Data

## Control circuit

|                                |               |
|--------------------------------|---------------|
| Nominal input voltage $U_N$    | DC 24 V       |
| Input voltage range            | -30 ... +25 % |
| Nominal input current at $U_N$ | 19.1 mA       |

## Load circuit:

|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Number of changeover/switchover contacts      | 1                                             |
| Contact material (relay)                      | AgNi                                          |
| Limiting continuous current                   | 16 A                                          |
| Max. make current (resistive)                 | (AC) 32 A / 0.02 s; (AC) 24 A / 4 s           |
| Max. switching voltage                        | AC 250 V                                      |
| Max. switching power (resistive)              | AC 4,000 VA; DC see load limit curve          |
| Switching capacity                            | AC-15: 3 A / AC 240 V; DC-13: 2 A / DC 24 V   |
| Recommended minimum load                      | 12 V / 10 mA                                  |
| Min. switching current                        | 0 $\mu$ A                                     |
| Pull-in time (typ.)                           | 15 ms                                         |
| Drop-out time (typ.)                          | 8 ms                                          |
| Bounce time (typ.)                            | 6 ms                                          |
| Drop-out time                                 | $\leq 0 \mu$ s                                |
| Electrical life (N.O.; resistive load; 23 °C) | $10 \times 10^3$ switching operations         |
| Mechanical life (N.O.; resistive load; 23 °C) | $5 \times 10^6$ switching operations          |
| Max. switching load with load/without load    | $6 \text{ min}^{-1}$ / $300 \text{ min}^{-1}$ |

## Signaling

|                   |         |
|-------------------|---------|
| Status indication | LED red |
|-------------------|---------|

## Safety and protection:

|                                                       |         |
|-------------------------------------------------------|---------|
| Rated voltage                                         | 250 V   |
| Rated impulse voltage                                 | 4 kV    |
| Pollution degree                                      | 3       |
| Dielectric strength, control/load circuit (AC, 1 min) | 5 kVrms |
| Dielectric strength open contact (AC, 1 min)          | 1 kVrms |
| Protection class                                      | IP20    |

## Connection data

|                         |                                              |
|-------------------------|----------------------------------------------|
| Connection technology   | Push-in CAGE CLAMP®                          |
| Solid conductor         | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Fine-stranded conductor | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |

|              |                                  |
|--------------|----------------------------------|
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inch |
|--------------|----------------------------------|

## Geometrical Data

|                                       |                    |
|---------------------------------------|--------------------|
| Width                                 | 15 mm / 0.591 inch |
| Height from upper-edge of DIN-35 rail | 73 mm / 2.874 inch |
| Depth                                 | 86 mm / 3.386 inch |

## Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

## Material Data

|           |      |
|-----------|------|
| Fire load | 0 MJ |
| Weight    | 45 g |

## Environmental Requirements

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Pollution degree                                          | 3              |
| Surrounding air (operating) temperature at U <sub>N</sub> | -40 ... 70 °C  |
| Surrounding air (storage) temperature                     | -40 ... 70 °C  |
| Processing temperature                                    | -25 ... +50 °C |

## Standards and specifications

|                          |                                      |
|--------------------------|--------------------------------------|
| Standards/specifications | EN 61010-2-201; EN 61810-1; EN 61373 |
|--------------------------|--------------------------------------|

## Commercial data

|                    |                           |
|--------------------|---------------------------|
| Product Group      | 6 (Interface Electronics) |
| Country of origin  | DE                        |
| GTIN               | 4050821128731             |
| Customs Tariff No. | 85364900990               |

## Compatible products

### tools



Item no.: 210-720  
 Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm

210-720

### ferrule

Item no.: 216-241

|                                                                                   |                                                                                                                                                                                      |                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|    | Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90                              | 216-241          |
|    | <b>Item no.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90 | 216-242          |
|    | <b>Item no.: 216-243</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90    | 216-243          |
|    | <b>Item no.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90  | 216-244          |
|    | <b>Item no.: 216-542</b><br>Twin ferrule; Sleeve for 2 x 1 mm <sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long                                                                  | 216-542          |
| <b>Jumper</b>                                                                     |                                                                                                                                                                                      |                  |
|    | <b>Item no.: 788-113</b><br>Comb-style jumper bar; 2-way; insulated                                                                                                                  | 788-113          |
|    | <b>Item no.: 788-114</b><br>Comb-style jumper bar; 3-way; insulated                                                                                                                  | 788-114          |
|    | <b>Item no.: 788-115</b><br>Comb-style jumper bar; 4-way; insulated                                                                                                                  | 788-115          |
|  | <b>Item no.: 788-116</b><br>Comb-style jumper bar; 6-way; insulated                                                                                                                  | 788-116          |
|  | <b>Item no.: 788-117</b><br>Comb-style jumper bar; 8-way; insulated                                                                                                                  | 788-117          |
|  | <b>Item no.: 788-118</b><br>Comb-style jumper bar; 2-way (1-3); insulated                                                                                                            | 788-118          |
|  | <b>Item no.: 859-402</b><br>Push-in type jumper bar; 2-way; Nominal current 18 A; insulated                                                                                          | 859-402          |
|  | <b>Item no.: 859-402/000-005</b><br>Push-in type jumper bar; 2-way; Nominal current 18 A; insulated                                                                                  | 859-402 /000-005 |
|  | <b>Item no.: 859-402/000-006</b><br>Push-in type jumper bar; 2-way; Nominal current 18 A; insulated                                                                                  | 859-402 /000-006 |
|  | <b>Item no.: 859-402/000-029</b><br>Push-in type jumper bar; 2-way; Nominal current 18 A; insulated                                                                                  | 859-402 /000-029 |
| <b>General accessories</b>                                                        |                                                                                                                                                                                      |                  |
|  | <b>Item no.: 209-145</b><br>Group marker carrier                                                                                                                                     | 209-145          |
|  | <b>Item no.: 209-184</b><br>Protection cover                                                                                                                                         | 209-184          |



**Item no.: 249-105**  
Group marker carrier

249-105



**Item no.: 788-120**  
Accessories for relay modules; Operation status indicator: red

788-120

## Marking accessories



**Item no.: 2009-110**  
Marking strips; on reel; not stretchable; plain; snap-on type

2009-110



**Item no.: 2009-115**  
WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

2009-115



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

/000-002

2009-115



**Item no.: 2009-115/000-006**  
WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/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

/000-007

2009-115



**Item no.: 2009-115/000-012**  
WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/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

/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

/000-023

2009-115



**Item no.: 209-128**  
Adaptor

209-128



**Item no.: 209-183**  
Marker card

209-183



**Item no.: 210-110**  
Fiber-tip pen

210-110



**Item no.: 793-501**  
WMB marking card; as card; not stretchable; plain; snap-on type

793-501



**Item no.: 793-501/000-002**  
WMB marking card; as card; not stretchable; plain; snap-on type

/000-002

793-501



**Item no.: 793-501/000-005**  
WMB marking card; as card; not stretchable; plain; snap-on type

/000-005

793-501

**Item no.: 793-501/000-006**

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

793-501

/000-006

**Item no.: 793-501/000-007**

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

793-501

/000-007

**Item no.: 793-501/000-012**

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

793-501

/000-012

**Item no.: 793-501/000-017**

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

793-501

/000-017

**Item no.: 793-501/000-023**

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

793-501

/000-023

**Item no.: 793-501/000-024**

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

793-501

/000-024

**Item no.: 793-502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

**Item no.: 793-502/000-002**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-002

**Item no.: 793-502/000-005**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-005

**Item no.: 793-502/000-006**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-006

**Item no.: 793-502/000-007**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-007

**Item no.: 793-502/000-012**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-012

**Item no.: 793-502/000-017**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-017

**Item no.: 793-502/000-023**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-023

**Item no.: 793-502/000-024**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

793-502

/000-024



**Item no.: 793-503**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

793-503

**Item no.: 793-503/000-002**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-002

793-503

**Item no.: 793-503/000-005**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-005

793-503

**Item no.: 793-503/000-006**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-006

793-503

**Item no.: 793-503/000-007**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-007

793-503

**Item no.: 793-503/000-012**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

793-503

**Item no.: 793-503/000-017**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-017

793-503

**Item no.: 793-503/000-023**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-023

793-503

**Item no.: 793-503/000-024**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /0000-024

793-503

**Item no.: 793-504**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type

793-504

**Item no.: 793-504/000-002**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-002

793-504

**Item no.: 793-504/000-005**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-005

793-504

**Item no.: 793-504/000-006**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-006

793-504

**Item no.: 793-504/000-012**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

793-504

**Item no.: 793-504/000-017**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-017

793-504



**Item no.: 793-504/000-023**

793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /0000-023

**Item no.: 793-505**

793-505

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

**Item no.: 793-505/000-005**

793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /0000-005

**Item no.: 793-505/000-006**

793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /0000-006

**Item no.: 793-505/000-007**

793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /0000-007

**Item no.: 793-505/000-012**

793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

**Item no.: 793-506**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type

**Item no.: 793-506/000-005**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-005

**Item no.: 793-506/000-006**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-006

**Item no.: 793-506/000-012**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

**Item no.: 793-506/000-017**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-017

**Item no.: 793-5501**

793-5501

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

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

793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type /0000-002

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

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-005

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

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-006

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

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

/000-007

793-5501

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

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

/000-012

793-5501

**Item no.: 793-5501/000-014**

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

/000-014

793-5501

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

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

/000-017

793-5501

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

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

/000-023

793-5501

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

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

/000-024

793-5501

**Item no.: 793-566**

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

793-566

**Item no.: 793-566/000-002**

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

/000-002

793-566

**Item no.: 793-566/000-005**

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

/000-005

793-566

**Item no.: 793-566/000-006**

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

/000-006

793-566

**Item no.: 793-566/000-007**

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

/000-007

793-566

**Item no.: 793-566/000-012**

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

/000-012

793-566

**Item no.: 793-566/000-017**

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

/000-017

793-566

**Item no.: 793-566/000-023**

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

/000-023

793-566

**Item no.: 793-566/000-024**

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

/000-024

793-566

**Downloads****Documentation****Bid Text**

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**Instruction Leaflet**

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|--------------------------|--|--------|----------|
| Socket with Relay or SSR |  | pdf    | Download |
|                          |  | 2.1 MB |          |

**Additional Information**

|                                                          |         |          |          |
|----------------------------------------------------------|---------|----------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf      | Download |
|                                                          |         | 265.8 kB |          |

**CAD/CAE - Smart Data****CAD data**

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|---------------------|--|-----|----------|

Subject to changes.