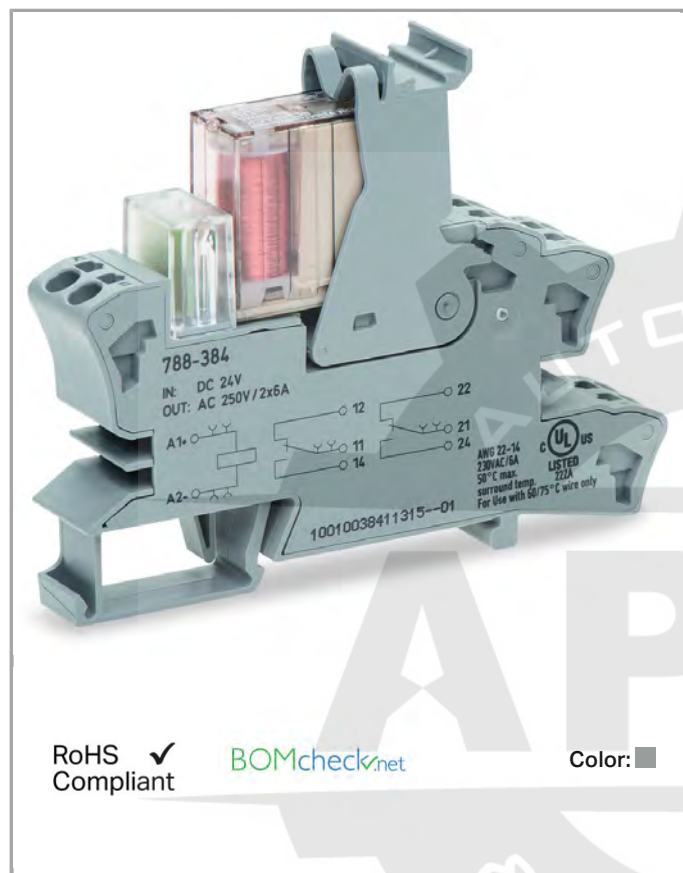


# Data sheet | Item number: 788-384

Relay module with driven contacts; Nominal input voltage: 24 VDC; 2 changeover contacts; Limiting continuous current: 6 A; Red status indicator; Module width: 15 mm



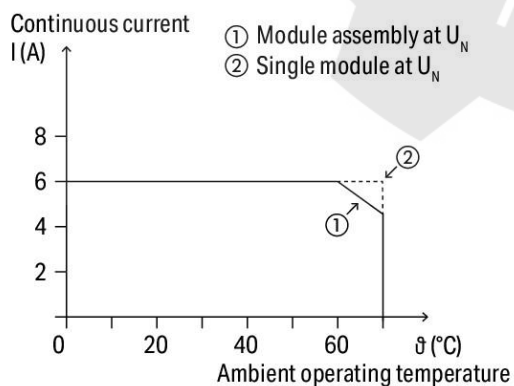
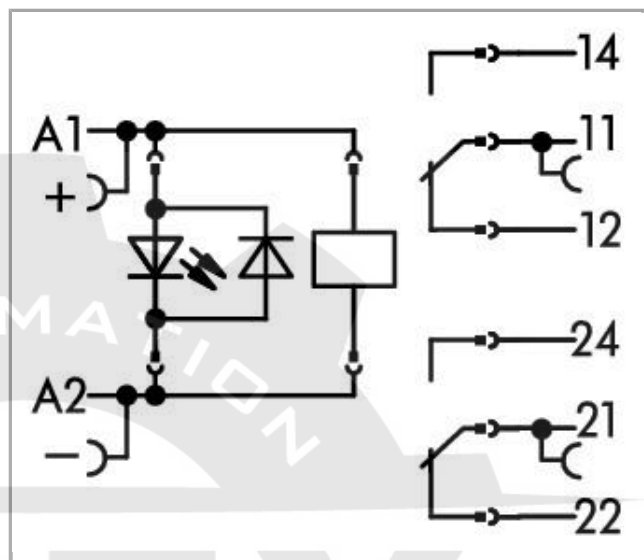
788-384



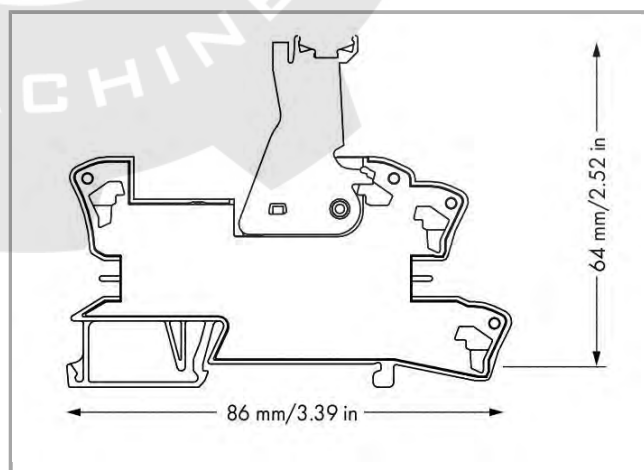
RoHS  
Compliant

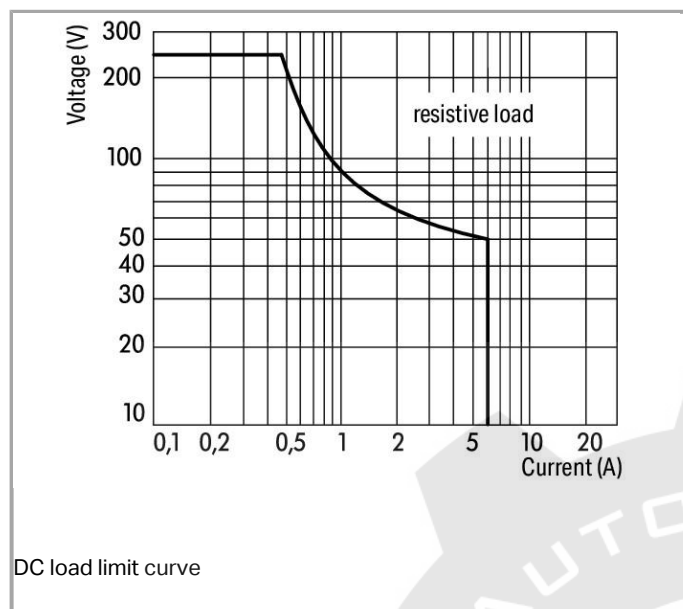
BOMcheck.net

Color: ■



Current-carrying capacity curve





## Item description

### Note:

- Per EN 50205, it is only permitted to use 1 make contact / 1 break contact for safety circuits (11-14 and 22-21 or 12-11 and 21-24).
- 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            | -15 ... +10 % |
| Nominal input current at $U_N$ | 31 mA         |

#### Load circuit:

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Number of changeover/switchover contacts | 2                                    |
| Contact material (relay)                 | AgNi                                 |
| Limiting continuous current              | 6 A                                  |
| Max. make current (resistive)            | (AC) 14 A / 4 s                      |
| Max. switching voltage                   | AC 250 V                             |
| Max. switching power (resistive)         | AC 1,500 VA; DC see load limit curve |

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| Switching capacity                            | AC-15: 3 A / AC 250 V; DC-13: 3 A / DC 24 V |
| Recommended minimum load                      | 5 V / 10 mA                                 |
| Pull-in time (typ.)                           | 10 ms                                       |
| Drop-out time (typ.)                          | 4 ms                                        |
| Electrical life (N.O.; resistive load; 23 °C) | 100 x 10 <sup>3</sup> switching operations  |
| Mechanical life (N.O.; resistive load; 23 °C) | 10 x 10 <sup>6</sup> switching operations   |
| Max. switching load with load/without load    | 6 min <sup>-1</sup> / 300 min <sup>-1</sup> |

## 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) | 4 kVrms   |
| Dielectric strength open contact (AC, 1 min)          | 1.5 kVrms |
| Dielectric strength, load/load circuit (AC, 1 min)    | 3 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 | 64 mm / 2.52 inch  |
| Depth                                 | 86 mm / 3.386 inch |

## Mechanical data

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

## Material Data

|           |          |
|-----------|----------|
| Color     | gray     |
| Fire load | 0.943 MJ |
| Weight    | 50.3 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; UL 508 |
|--------------------------|----------------------------------------------|

## Commercial data

|                    |                           |
|--------------------|---------------------------|
| Product Group      | 6 (Interface Electronics) |
| Country of origin  | CN                        |
| GTIN               | 4055143184175             |
| Customs Tariff No. | 85364900990               |

## Approvals / Certificates

### UL-Approvals

| Logo                                                                               | Approval                                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.6 |

## Compatible products

### Marking accessories

|                                                                                     |                                                                                                                   |                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------|
|   | Item no.: 2009-110<br>Marking strips; on reel; not stretchable; plain; snap-on type                               | 2009-110             |
|  | Item no.: 2009-115<br>WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type         | 2009-115             |
|  | Item no.: 2009-115/000-002<br>WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-115<br>/000-002 |
|  | Item no.: 2009-115/000-006<br>WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type  | 2009-115<br>/000-006 |

|                                                                                    |                                                                                                                   |          |          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------|----------|
|   | Item no.: 2009-115/000-007<br>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<br>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<br>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<br>WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | /000-023 | 2009-115 |
|    | Item no.: 209-128<br>Adaptor                                                                                      |          | 209-128  |
|    | Item no.: 209-183<br>Marker card                                                                                  |          | 209-183  |
|    | Item no.: 210-110<br>Fiber-tip pen                                                                                |          | 210-110  |
|   | Item no.: 793-501<br>WMB marking card; as card; not stretchable; plain; snap-on type                              |          | 793-501  |
|  | Item no.: 793-501/000-002<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-002 | 793-501  |
|  | Item no.: 793-501/000-005<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-005 | 793-501  |
|  | Item no.: 793-501/000-006<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-006 | 793-501  |
|  | Item no.: 793-501/000-007<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-007 | 793-501  |
|  | Item no.: 793-501/000-012<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-012 | 793-501  |
|  | Item no.: 793-501/000-017<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-017 | 793-501  |
|  | Item no.: 793-501/000-023<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-023 | 793-501  |
|  | Item no.: 793-501/000-024<br>WMB marking card; as card; not stretchable; plain; snap-on type                      | /000-024 | 793-501  |

|                                                                                    |                                                                                                                                           |                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <b>Item no.: 793-502</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type          | 793-502             |
|    | <b>Item no.: 793-502/000-002</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-002 |
|    | <b>Item no.: 793-502/000-005</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-005 |
|    | <b>Item no.: 793-502/000-006</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-006 |
|    | <b>Item no.: 793-502/000-007</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-007 |
|    | <b>Item no.: 793-502/000-012</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-012 |
|    | <b>Item no.: 793-502/000-017</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-017 |
|  | <b>Item no.: 793-502/000-023</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-023 |
|  | <b>Item no.: 793-502/000-024</b><br>WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type  | 793-502<br>/000-024 |
|  | <b>Item no.: 793-503</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type         | 793-503             |
|  | <b>Item no.: 793-503/000-002</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type | 793-503<br>/000-002 |
|  | <b>Item no.: 793-503/000-005</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type | 793-503<br>/000-005 |
|  | <b>Item no.: 793-503/000-006</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type | 793-503<br>/000-006 |
|  | <b>Item no.: 793-503/000-007</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type | 793-503<br>/000-007 |
|  | <b>Item no.: 793-503/000-012</b><br>WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type | 793-503<br>/000-012 |

**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**

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

793-504

**Item no.: 793-505**

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

793-505

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

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

793-505

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

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

793-505

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

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

793-505

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

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

793-505

|                                                                                    |                                                                                                                                                             |          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|    | <b>Item no.: 793-506</b><br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type                           | 793-506  |
|    | <b>Item no.: 793-506/000-005</b><br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-005         | 793-506  |
|    | <b>Item no.: 793-506/000-006</b><br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-006         | 793-506  |
|    | <b>Item no.: 793-506/000-012</b><br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-012         | 793-506  |
|    | <b>Item no.: 793-506/000-017</b><br>WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-017         | 793-506  |
|    | <b>Item no.: 793-5501</b><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type                   | 793-5501 |
|    | <b>Item no.: 793-5501/000-002</b><br>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type /0000-002 | 793-5501 |
|  | <b>Item no.: 793-5501/000-005</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-005                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-006</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-006                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-007</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-007                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-012</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-012                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-014</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-014                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-017</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-017                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-023</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-023                                       | 793-5501 |
|  | <b>Item no.: 793-5501/000-024</b><br>WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-024                                       | 793-5501 |

**Item no.: 793-566**

793-566

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

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-002

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-005

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-006

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-007

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-012

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-017

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-023

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

793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type /000-024

**General accessories****Item no.: 209-145**

209-145

Group marker carrier

**Item no.: 209-184**

209-184

Protection cover

**Item no.: 249-105**

249-105

Group marker carrier

**Item no.: 788-120**

788-120

Accessories for relay modules; Operation status indicator: red

**tools****Item no.: 210-720**

210-720

Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm

**Jumper****Item no.: 788-113**

788-113

Comb-style jumper bar; 2-way; insulated

**Item no.: 788-114**

788-114

Comb-style jumper bar; 3-way; insulated

|                                                                                    |                                                                                                                                                                          |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <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<br>/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<br>/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<br>/000-029 |
| <b>ferrule</b>                                                                     |                                                                                                                                                                          |                     |
|   | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm² / 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 mm² / 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 mm² / 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 mm² / 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 mm² / AWG 2 x 18; red, insulated; 12 mm long                                                                  | 216-542             |

## Downloads

## Documentation

## Bid Text

|                |             |         |          |
|----------------|-------------|---------|----------|
| 788-384        | Apr 4, 2012 | doc     | Download |
| Relaisbaustein |             | 28.7 kB |          |

## Instruction Leaflet

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



2.1 MB

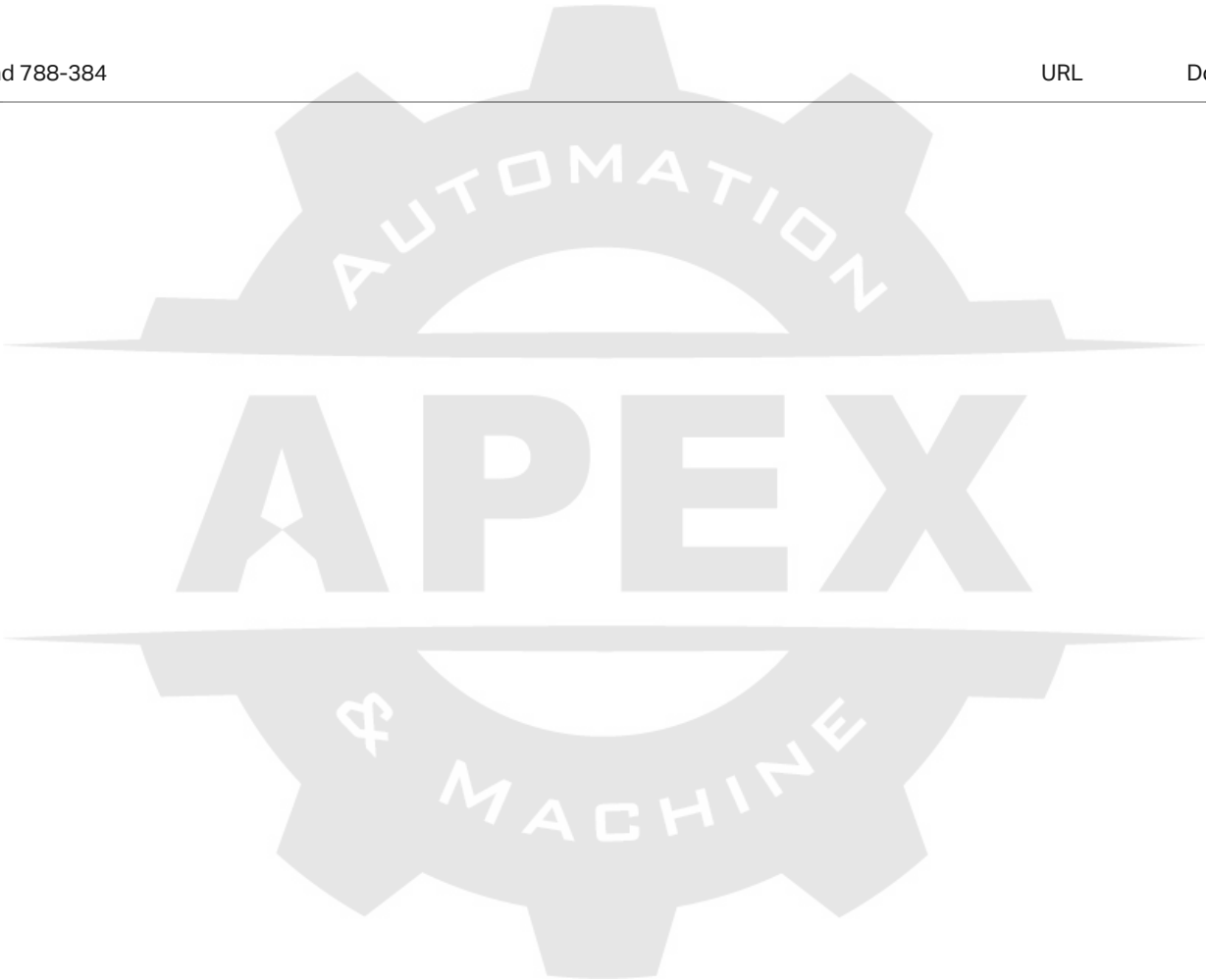
Additional Information

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

CAD/CAE - Smart Data

CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 788-384 | URL | Download |
|---------------------|-----|----------|



Subject to changes.