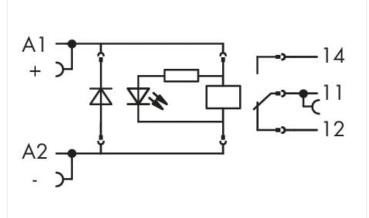
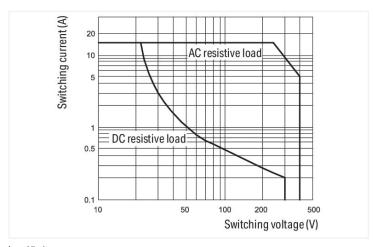
Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 16 A; with manual operation; Railway; Red status indicator; Module width: 15 mm

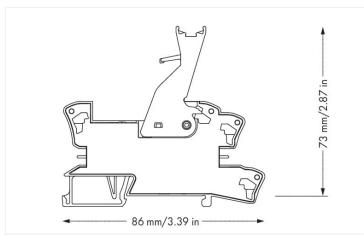


https://www.wago.com/788-391



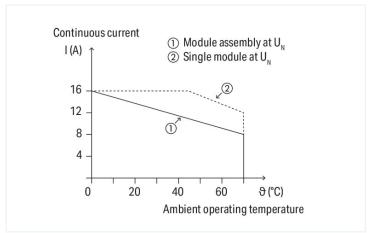






Load limit curve

Dimensions in mm



Current-carrying capacity curve

https://www.wago.com/788-391



# **Notes**

Note

Safety information

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.

Reinforced insulation between coil and contacts

To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

# Technical data

Control circuit	
Nominal input voltage $\mathbf{U}_{\mathrm{N}}$	DC 24 V
Input voltage range	-30 +25 %
Nominal input current at U <sub>N</sub>	20 mA

Load circuit	
Number of changeover/switchover contacts	1
Contact material (relay)	AgNi
Limiting continuous current	16 A
Inrush current (resistive) max.	(AC) 32 A / 0.02 s; (AC) 24 A / 4 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) max.	AC 4000 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
Pull-in time (typ.)	15 ms
Drop-out time (typ.)	8 ms
Bounce time (typ.)	6 ms
Electrical life (NO; resistive load; 23 °C)	10 x 10³ switching operations
Mechanical life	5 x 10 <sup>6</sup> switching operations
Switching frequency with/without load (max.)	6 min <sup>-1</sup> / 300 min <sup>-1</sup>

# Signaling

Protection type

Status indicator Red LED

Safety and protection	
Rated voltage	250 V
Rated surge 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
Safety information	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.

Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 2.5 mm² / 22 14 AWG
Fine-stranded conductor	0.34 2.5 mm² / 22 14 AWG
Strip length	9 10 mm / 0.35 0.39 inches

IP20

https://www.wago.com/788-391



 Physical data

 Width
 15 mm / 0.591 inches

 Height
 86 mm / 3.386 inches

 Depth from upper-edge of DIN-rail
 73 mm / 2.874 inches

Mechanical data

Mounting type DIN-35 rail

Material dataFire load0.696 MJWeight45 g

Environmental requirementsAmbient temperature (operation at  $U_N$ ) $-40 \dots +70 \,^{\circ}\text{C}$ Ambient temperature UL (operation at  $U_N$ ) $-40 \dots +70 \,^{\circ}\text{C}$ Ambient temperature (storage) $-40 \dots +70 \,^{\circ}\text{C}$ Processing temperature $-25 \dots +50 \,^{\circ}\text{C}$ Temperature range of connection cable $\geq (T_{ambient} + 20 \, \text{K})$ 

Standards and specifications

Standards/specifications

EN 61010-2-201
EN 61810-1
EN 61373

Commercial data **Product Group** 6 (INTERFACE ELECTRONIC) 27-37-16-01 eCl@ss 10.0 eCl@ss 9.0 27-37-16-01 ETIM 8.0 EC001437 ETIM 7.0 EC001437 PU (SPU) 15 (1) pcs Packaging type Box Country of origin DE **GTIN** 4050821128731 Customs tariff number 85364900990

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals

EHE

Approval Standard Certificate Name

EAC TP TC 004/2011 EAC RU C-DE.AM02.
Brjansker Zertifizierungsstelle B.00122/19

Declarations of conformity and manufacturer's declarations

Approval Standard Certificate Name

EU-Declaration of Conformity

WAGO GmbH & Co. KG

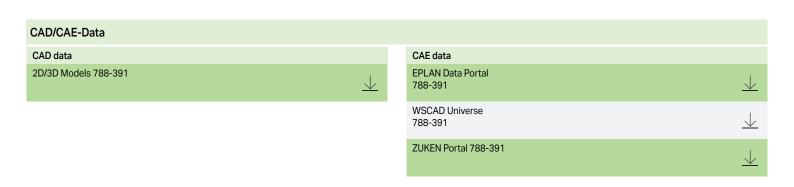
https://www.wago.com/788-391

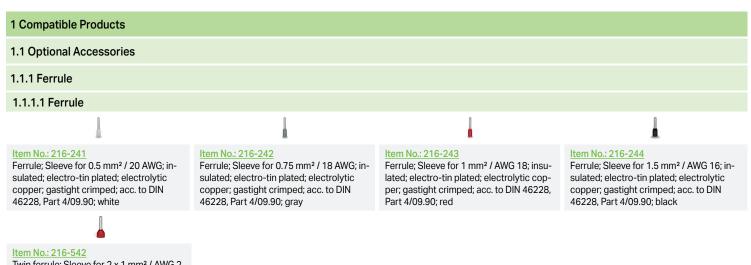
Compliance 788-391



# Downloads Environmental Product Compliance Compliance Search Environmental Product

# Documentation Instruction Leaflet Sockets with Elementary Relay/ SSR 09.10.2020 2271.22 KB





Twin ferrule; Sleeve for 2 x 1 mm<sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red

https://www.wago.com/788-391



### 1.1.2 Indicators

# 1.1.2.1 Status indication



### Item No.: 788-120

Accessories for relay modules; Operation status indicator: red; Nominal operating voltage: 24 VDC

# 1.1.3 Jumper

# 1.1.3.1 Jumper



Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray

# Item No.: 788-113

Jumper; for jumper slot; 2-way; insulated; light gray

### Item No.: 859-402

Jumper; for jumper slot; 2-way; insulated; light gray

# Item No.: 788-114

Jumper; for jumper slot; 3-way; insulated; light gray

# Item No.: 788-115

Jumper; for jumper slot; 4-way; insulated; light gray

# Item No.: 788-116

Jumper; for jumper slot; 6-way; insulated; light gray

# Item No.: 788-117

Jumper; for jumper slot; 8-way; insulated; light gray

# 1.1.4 Marking

# 1.1.4.1 Double marker carrier



Item No.: 209-128 Adaptor; gray

# 1.1.4.2 Group marker carrier



Item No.: 249-105

Group marker carrier; gray



Item No.: 209-145

Group marker carrier; white

# 1.1.4.3 Marker



Marker; white

# Item No.: 793-502

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

# Market

Item No.: 793-503

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

# Item No.: 793-504

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



# Item No.: 793-505

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

https://www.wago.com/788-391



# 1.1.4.4 Marking device



Item No.: 210-110 Fiber-tip pen

# 1.1.4.5 Marking strip



Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

# 1.1.4.6 Protective marker cover

<u>Item No.: 209-184</u>

Protection cover; transparent

# 1.1.5 Tool

# 1.1.5.1 Operating tool



Item No.: 210-720

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

# **Installation Notes**

# **Conductor termination**



Conductor termination

# Commoning



Easy commoning using adjacent jumpers

https://www.wago.com/788-391



# Marking



Marking using WMB Multi markers and group marker carriers.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$