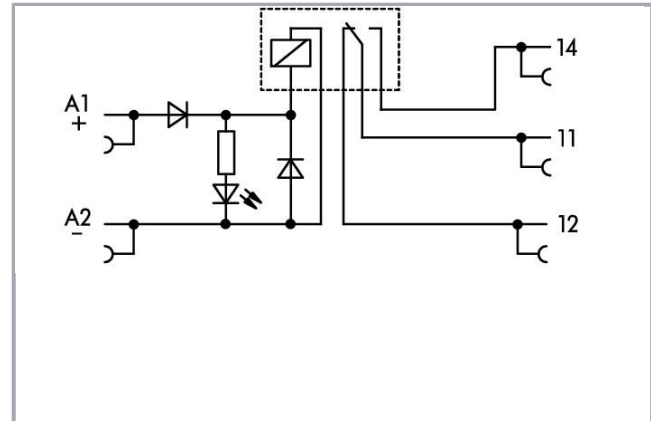
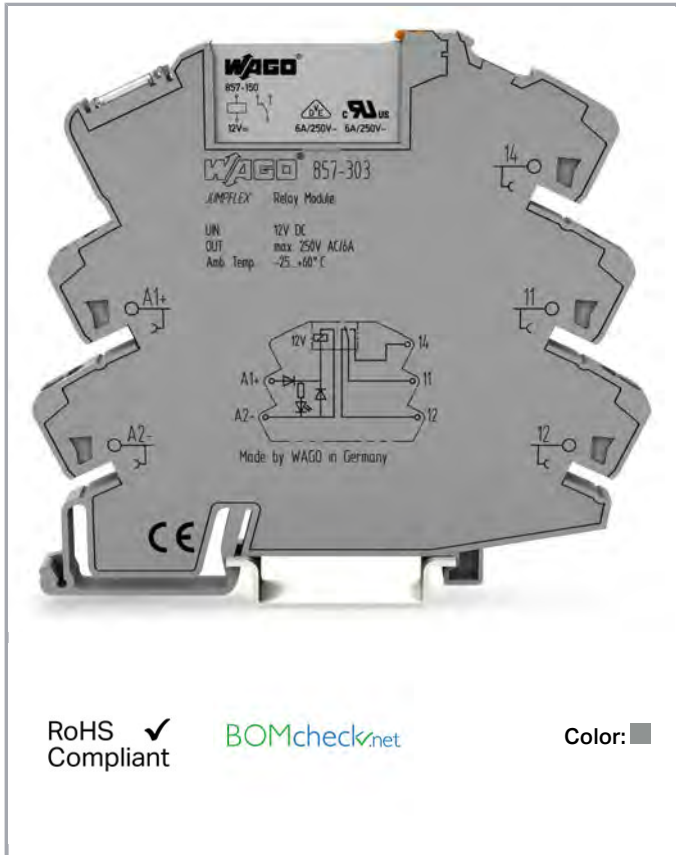


Data sheet | Item number: 857-303

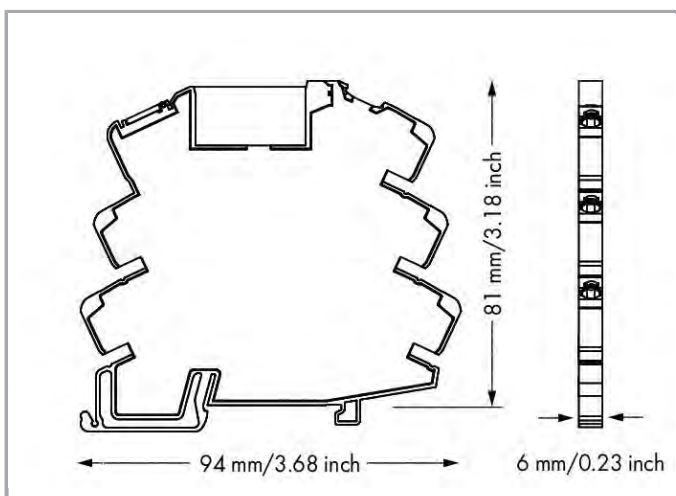
Relay module; Nominal input voltage: 12 VDC; 1 changeover contact;
Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm; 2,50 mm²; gray



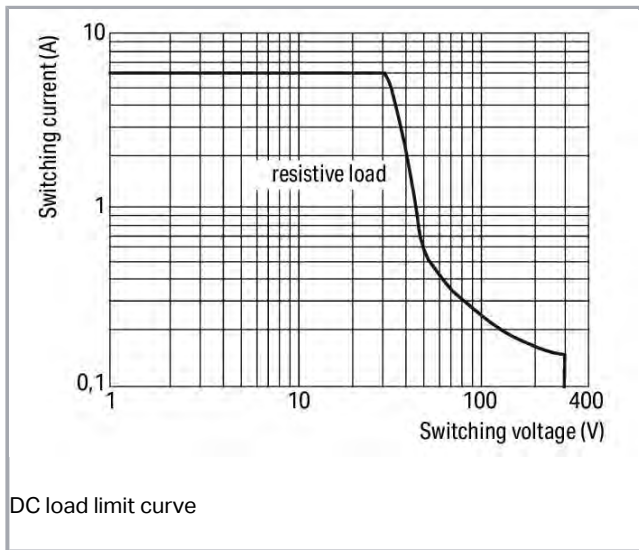
RoHS 
Compliant



Color: 



Subject to changes. Please also observe the further product documentation!



Item description

Note:

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 12 V
Input voltage range	-15 ... +20 %
Nominal input current at U_N	17 mA

Load circuit:

Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO ₂
Limiting continuous current	6 A
Inrush current (resistive) (max.)	(AC) 20 A / 0,02 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) (max.)	AC 1500 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V

Subject to changes. Please also observe the further product documentation!



Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	8 ms
Bounce time (typ.)	3.5 ms
Electrical life (NO; resistive load; 23 °C)	50 x 10 ³ switching operations
Mechanical life	5 x 10 ⁶ switching operations
Switching frequency with/without load (max.)	6 min ⁻¹ / 180 min ⁻¹

Signaling

Status indicator	Yellow LED
------------------	------------

Safety and protection:

Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	4 kVrms
Dielectric strength, open contact (AC, 1 min)	1 kVrms
Protection type	IP20

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0,34 ... 2,5 mm ² / 22 ... 14 AWG
Fine-stranded conductor	0,34 ... 2,5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	81 mm / 3.189 inch
Depth	94 mm / 3.701 inch

Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

Material Data

Color	gray
-------	------

Subject to changes. Please also observe the further product documentation!

Fire load	0.631 MJ
Weight	30.6 g

Environmental Requirements

Surrounding air temperature (operation at U_N)	-40 ... 60 °C
Surrounding air temperature (storage)	-40 ... 70 °C
Processing temperature	-25 ... +50 °C

Standards and specifications

Standards/specifications	EN 61010-2-201; EN 61810-1; EN 61373; UL 508; ATEX; IEC Ex
--------------------------	--

Elementary relay

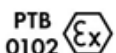
WAGO Basic Relay	857-150
------------------	---------

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4055143135207
Customs tariff number	85364900990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX DEKRA EXAM GmbH	EN 60079-0	BVS_14_ATEX_E_091_X
	IECEx DEKRA EXAM GmbH	IEC 60079-0	IECEx_BVS_14.0079_X
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Sec.4

Subject to changes. Please also observe the further product documentation!

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Counterpart

Compatible products

Marking accessories

	Item no.: 2009-110 Marking strips; on reel; 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
	Item no.: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
	Item no.: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
	Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
	Item no.: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
	Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green
	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Subject to changes. Please also observe the further product documentation!



Item no.: 2009-115/000-024

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



Item no.: 209-128

Adaptor; gray



Item no.: 209-183

Marker card; white



Item no.: 210-110

Fiber-tip pen



Item no.: 249-105

Group marker carrier; gray



Item no.: 793-501

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



Item no.: 793-501/000-002

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



Item no.: 793-501/000-005

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



Item no.: 793-501/000-006

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



Item no.: 793-501/000-007

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



Item no.: 793-501/000-012

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



Item no.: 793-501/000-017

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



Item no.: 793-501/000-023

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



Item no.: 793-501/000-024

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



Item no.: 793-502

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

Subject to changes. Please also observe the further product documentation!


Item no.: 793-502/000-002

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


Item no.: 793-502/000-005

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


Item no.: 793-502/000-006

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


Item no.: 793-502/000-007

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


Item no.: 793-502/000-012

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


Item no.: 793-502/000-017

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


Item no.: 793-502/000-023

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


Item no.: 793-502/000-024

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


Item no.: 793-503

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


Item no.: 793-503/000-002

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


Item no.: 793-503/000-005

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


Item no.: 793-503/000-006

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


Item no.: 793-503/000-007

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

Subject to changes. Please also observe the further product documentation!


Item no.: 793-503/000-012

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


Item no.: 793-503/000-017

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


Item no.: 793-503/000-023

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


Item no.: 793-503/000-024

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


Item no.: 793-504

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


Item no.: 793-504/000-002

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


Item no.: 793-504/000-005

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


Item no.: 793-504/000-006

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


Item no.: 793-504/000-012

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


Item no.: 793-504/000-017

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


Item no.: 793-504/000-023

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


Item no.: 793-505

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


Item no.: 793-505/000-005

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

Item no.: 793-505/000-006

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

Subject to changes. Please also observe the further product documentation!



blue



Item no.: 793-505/000-007

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



Item no.: 793-505/000-012

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



Item no.: 793-506

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



Item no.: 793-506/000-005

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



Item no.: 793-506/000-006

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



Item no.: 793-506/000-012

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



Item no.: 793-506/000-017

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



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.: 793-5501/000-002

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



Item no.: 793-5501/000-005

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



Item no.: 793-5501/000-006

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



Item no.: 793-5501/000-007

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

Item no.: 793-5501/000-012

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

Subject to changes. Please also observe the further product documentation!



type; orange



Item no.: 793-5501/000-014

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



Item no.: 793-5501/000-017

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



Item no.: 793-5501/000-023

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



Item no.: 793-5501/000-024

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



Item no.: 793-566

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



Item no.: 793-566/000-002

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



Item no.: 793-566/000-005

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



Item no.: 793-566/000-006

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



Item no.: 793-566/000-007

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



Item no.: 793-566/000-012

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



Item no.: 793-566/000-017

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



Item no.: 793-566/000-023

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

Item no.: 793-566/000-024

Subject to changes.



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

ferrule



Item no.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



Item no.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item no.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item no.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

General accessories



Item no.: 209-184

Protection cover; transparent



Item no.: 857-150

Basic relay; Nominal input voltage: 12 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm

tools



Item no.: 210-720

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

Jumper



Item no.: 281-482

Comb-style jumper bar; insulated; 2-way; IN = IN terminal block; gray



Item no.: 859-402

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; light gray



Item no.: 859-402/000-005

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; red



Item no.: 859-402/000-006

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; blue



Item no.: 859-402/000-029

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; yellow



Item no.: 859-403

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; light gray

Subject to changes. Please also observe the further product documentation!



Item no.: 859-403/000-005

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; red



Item no.: 859-403/000-006

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; blue



Item no.: 859-403/000-029

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; yellow



Item no.: 859-404

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; light gray



Item no.: 859-404/000-005

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; red



Item no.: 859-404/000-006

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; blue



Item no.: 859-404/000-029

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; yellow



Item no.: 859-405

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; light gray



Item no.: 859-405/000-005

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; red



Item no.: 859-405/000-006

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; blue



Item no.: 859-405/000-029

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; yellow



Item no.: 859-406

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; light gray



Item no.: 859-406/000-005

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; red



Item no.: 859-406/000-006

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; blue

Subject to changes. Please also observe the further product documentation!



Item no.: 859-406/000-029

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; yellow



Item no.: 859-407

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; light gray



Item no.: 859-407/000-005

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; red



Item no.: 859-407/000-006

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; blue



Item no.: 859-407/000-029

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; yellow



Item no.: 859-408

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; light gray



Item no.: 859-408/000-005

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; red



Item no.: 859-408/000-006

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; blue



Item no.: 859-408/000-029

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; yellow



Item no.: 859-409

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; light gray



Item no.: 859-409/000-005

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; red



Item no.: 859-409/000-006

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; blue



Item no.: 859-409/000-029

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; yellow



Item no.: 859-410

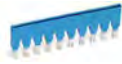
Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; light gray

Subject to changes. Please also observe the further product documentation!



Item no.: 859-410/000-005

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; red



Item no.: 859-410/000-006

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; blue



Item no.: 859-410/000-029

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; yellow

Downloads

Documentation

Instruction Leaflet

Elektromechanical and Solid-State Relays/Optocouplers

V 1.4.0

Oct 15, 2019

Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

Step Datei Serie 857-03xx

1.0

Jun 20, 2011

CAD/CAE-Data

CAD data

2D/3D Models 857-303

CAE data

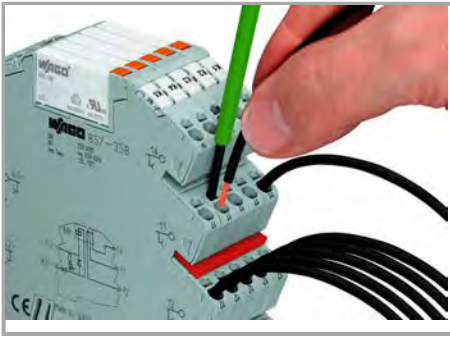
EPLAN Data Portal 857-303

WSCAD Universe 857-303

Installation Notes

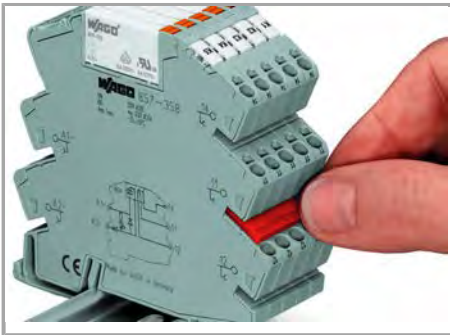
Conductor termination

Subject to changes. Please also observe the further product documentation!



Connection of conductor

Commoning



Easy commoning using adjacent jumpers

Marking



Marking using WMB Multi markers

Installation

Subject to changes. Please also observe the further product documentation!



Operation of the relay ejector

Subject to changes. Please also observe the further product documentation!