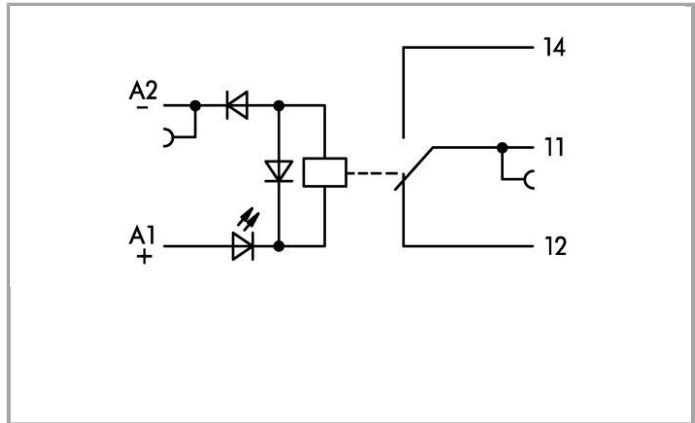
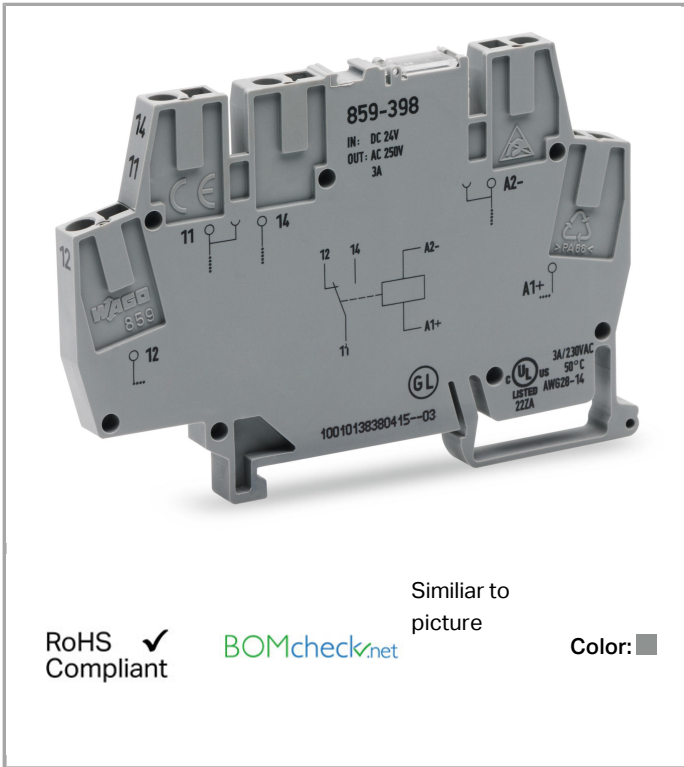


# Data sheet | Item number: 859-398

Switching relay terminal block; Relay with 1 changeover contact (1u); with miniature switching relay; with extended input voltage and temperature range



[www.wago.com/859-398](http://www.wago.com/859-398)

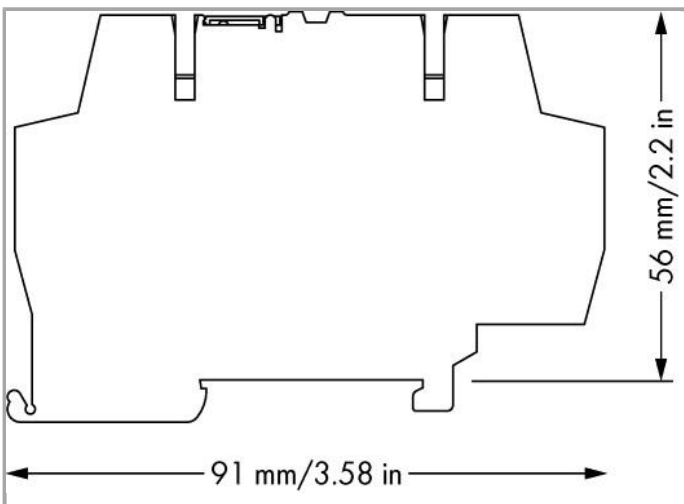


Similar to picture

RoHS Compliant ✓

[BOMcheck.net](http://BOMcheck.net)

Color: ■



## Item description

### Note:

Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts.

## Data

## Technical Data

## Control circuit

Nominal input voltage $U_N$	24 VDC
Input voltage range	$\pm 40\%$
Nominal input current at $U_N$	14.4 mA

## Load circuit:

Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO <sub>2</sub>
Limiting continuous current	5 A
Max. switching voltage	250 VAC
Max. switching power (resistive)	1250 VAAC; DC see load limit curve
Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Bounce time (typ)	5 ms
Electrical life (N.O.; resistive load; 23 °C)	50 x 10 <sup>3</sup> switching operations
Mechanical life (N.O.; resistive load; 23 °C)	5 x 10 <sup>6</sup> switching operations
Max. switching load with load/without load	6 min <sup>-1</sup> / 180 min <sup>-1</sup>

## Signaling

Status indication	LED red
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## Safety and protection:

Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	4 kV <sub>rms</sub>
Dielectric strength, control/load circuit (AC, 1 min)	4 kV <sub>rms</sub>
Dielectric strength open contact (AC, 1 min)	1 kV <sub>rms</sub>
Dielectric strength open contact (AC, 1 min)	1 kV <sub>rms</sub>

## Connection data

Connection technology	CAGE CLAMP®
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Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 Inch

### Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-35 rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch

### Mechanical data

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

### Material Data

Color	gray
Weight	22.598 g

### Environmental Requirements

Surrounding air (operating) temperature at U <sub>N</sub>	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 70 °C
Pollution degree	2

### Standards and specifications


Standards/specifications	EN 61010-2-201; EN 61810-1; EN 61373; GL
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### Commercial data

Country of origin	DE
GTIN	4055143604499
Customs Tariff No.	85364900990
Product Group	6 (Interface Electronics)

### Approvals / Certificates

#### Ship Approvals

Logo	Approval	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	TAA00001D1
	<b>NK</b> Nippon Kaiji Kyokai	TA17255M



**PRS**  
Polski Rejestr Statkow

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**UL-Approvals**
















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

















**Compatible products**

**Jumper**

	<b>Item no.: 859-402</b> Push-in type jumper bar; 2-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-402">www.wago.com/859-402</a>
	<b>Item no.: 859-402/000-005</b> Push-in type jumper bar; 2-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-402/000-005">www.wago.com/859-402/000-005</a>
	<b>Item no.: 859-402/000-006</b> Push-in type jumper bar; 2-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-402/000-006">www.wago.com/859-402/000-006</a>
	<b>Item no.: 859-402/000-029</b> Push-in type jumper bar; 2-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-402/000-029">www.wago.com/859-402/000-029</a>
	<b>Item no.: 859-403</b> Push-in type jumper bar; 3-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-403">www.wago.com/859-403</a>
	<b>Item no.: 859-403/000-005</b> Push-in type jumper bar; 3-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-403/000-005">www.wago.com/859-403/000-005</a>
	<b>Item no.: 859-403/000-006</b> Push-in type jumper bar; 3-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-403/000-006">www.wago.com/859-403/000-006</a>
	<b>Item no.: 859-403/000-029</b> Push-in type jumper bar; 3-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-403/000-029">www.wago.com/859-403/000-029</a>
	<b>Item no.: 859-404</b> Push-in type jumper bar; 4-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-404">www.wago.com/859-404</a>

	<p><b>Item no.: 859-404/000-005</b>                      Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-404/000-005">www.wago.com/859-404/000-005</a>
	<p><b>Item no.: 859-404/000-006</b>                      Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-404/000-006">www.wago.com/859-404/000-006</a>
	<p><b>Item no.: 859-404/000-029</b>                      Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-404/000-029">www.wago.com/859-404/000-029</a>
	<p><b>Item no.: 859-405</b>                      Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-405">www.wago.com/859-405</a>
	<p><b>Item no.: 859-405/000-005</b>                      Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a>
	<p><b>Item no.: 859-405/000-006</b>                      Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-405/000-006">www.wago.com/859-405/000-006</a>
	<p><b>Item no.: 859-405/000-029</b>                      Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-405/000-029">www.wago.com/859-405/000-029</a>
	<p><b>Item no.: 859-406</b>                      Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-406">www.wago.com/859-406</a>
	<p><b>Item no.: 859-406/000-005</b>                      Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-406/000-005">www.wago.com/859-406/000-005</a>
	<p><b>Item no.: 859-406/000-006</b>                      Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-406/000-006">www.wago.com/859-406/000-006</a>
	<p><b>Item no.: 859-406/000-029</b>                      Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-406/000-029">www.wago.com/859-406/000-029</a>
	<p><b>Item no.: 859-407</b>                      Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-407">www.wago.com/859-407</a>
	<p><b>Item no.: 859-407/000-005</b>                      Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-407/000-005">www.wago.com/859-407/000-005</a>
	<p><b>Item no.: 859-407/000-006</b>                      Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-407/000-006">www.wago.com/859-407/000-006</a>
	<p><b>Item no.: 859-407/000-029</b>                      Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	<a href="http://www.wago.com/859-407/000-029">www.wago.com/859-407/000-029</a>

	<b>Item no.: 859-408</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-408">www.wago.com/859-408</a>
	<b>Item no.: 859-408/000-005</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-408/000-005">www.wago.com/859-408/000-005</a>
	<b>Item no.: 859-408/000-006</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-408/000-006">www.wago.com/859-408/000-006</a>
	<b>Item no.: 859-408/000-029</b> Push-in type jumper bar; 8-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-408/000-029">www.wago.com/859-408/000-029</a>
	<b>Item no.: 859-409</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-409">www.wago.com/859-409</a>
	<b>Item no.: 859-409/000-005</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-409/000-005">www.wago.com/859-409/000-005</a>
	<b>Item no.: 859-409/000-006</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-409/000-006">www.wago.com/859-409/000-006</a>
	<b>Item no.: 859-409/000-029</b> Push-in type jumper bar; 9-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-409/000-029">www.wago.com/859-409/000-029</a>
	<b>Item no.: 859-410</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-410">www.wago.com/859-410</a>
	<b>Item no.: 859-410/000-005</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-410/000-005">www.wago.com/859-410/000-005</a>
	<b>Item no.: 859-410/000-006</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-410/000-006">www.wago.com/859-410/000-006</a>
	<b>Item no.: 859-410/000-029</b> Push-in type jumper bar; 10-way; Nominal current 18 A; insulated	<a href="http://www.wago.com/859-410/000-029">www.wago.com/859-410/000-029</a>
<b>check</b>		
	<b>Item no.: 859-500</b> Test pin; 1 mm Ø; with solder connection for test wire	<a href="http://www.wago.com/859-500">www.wago.com/859-500</a>
<b>ferrule</b>		
	<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
	<b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>

	<b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
	<b>Item no.: 216-224</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated	<a href="http://www.wago.com/216-224">www.wago.com/216-224</a>
	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>
<b>Marking accessories</b>		
	<b>Item no.: 2009-145</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>
	<b>Item no.: 2009-145/000-002</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-002">www.wago.com/2009-145/000-002</a>
	<b>Item no.: 2009-145/000-005</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a>
	<b>Item no.: 2009-145/000-006</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a>
	<b>Item no.: 2009-145/000-007</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a>
	<b>Item no.: 2009-145/000-012</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a>
	<b>Item no.: 2009-145/000-023</b> Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a>
	<b>Item no.: 2009-145/000-024</b> Mini-WSB Inline; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	<a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a>
	<b>Item no.: 210-110</b> Fiber-tip pen	<a href="http://www.wago.com/210-110">www.wago.com/210-110</a>
	<b>Item no.: 248-501</b> Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
	<b>Item no.: 248-501/000-002</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type	<a href="http://www.wago.com/248-501/000-002">www.wago.com/248-501/000-002</a>
	<b>Item no.: 248-501/000-005</b> Mini-WSB marking card; as card; plain; snap-on type	<a href="http://www.wago.com/248-501/000-005">www.wago.com/248-501/000-005</a>



**Item no.: 248-501/000-006**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-006](http://www.wago.com/248-501/000-006)



**Item no.: 248-501/000-007**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-007](http://www.wago.com/248-501/000-007)



**Item no.: 248-501/000-012**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-012](http://www.wago.com/248-501/000-012)



**Item no.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-017](http://www.wago.com/248-501/000-017)



**Item no.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-023](http://www.wago.com/248-501/000-023)



**Item no.: 248-501/000-024**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

[www.wago.com/248-501/000-024](http://www.wago.com/248-501/000-024)



**Item no.: 248-502**  
Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-502](http://www.wago.com/248-502)



**Item no.: 248-502/000-024**  
Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-502/000-024](http://www.wago.com/248-502/000-024)



**Item no.: 248-503**  
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-503](http://www.wago.com/248-503)



**Item no.: 248-503/000-024**  
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-503/000-024](http://www.wago.com/248-503/000-024)



**Item no.: 248-504/000-024**  
Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-504/000-024](http://www.wago.com/248-504/000-024)



**Item no.: 248-505/000-024**  
Mini-WSB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-505/000-024](http://www.wago.com/248-505/000-024)



**Item no.: 248-506**  
Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type

[www.wago.com/248-506](http://www.wago.com/248-506)

#### End plate



**Item no.: 859-525**  
End and intermediate plate; 1 mm thick

[www.wago.com/859-525](http://www.wago.com/859-525)

#### tools





Item no.: 210-720

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

[www.wago.com/210-720](http://www.wago.com/210-720)

## Downloads

### Documentation

#### Bid Text

859-398 Relaisbaustein	Jan 22, 2016	DOC 27.1 kB	Download
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#### Instruction Leaflet

Relay Modules, Optocoupler Modules, Specialty Functions	Dec 9, 2016	PDF 1.7 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	Oct 15, 2018	265.8 kB	Download
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## smartDATA

### CAD data

3D Download 859-398		URL	Download
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Subject to changes.