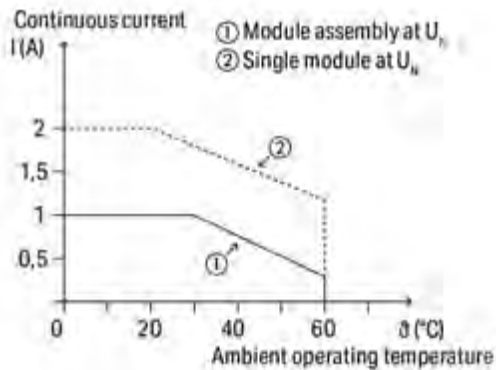
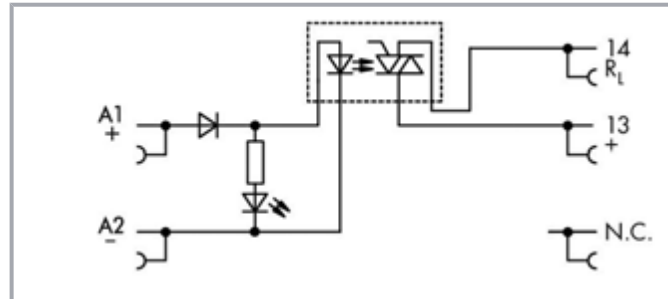


Data sheet | Item number: 857-714

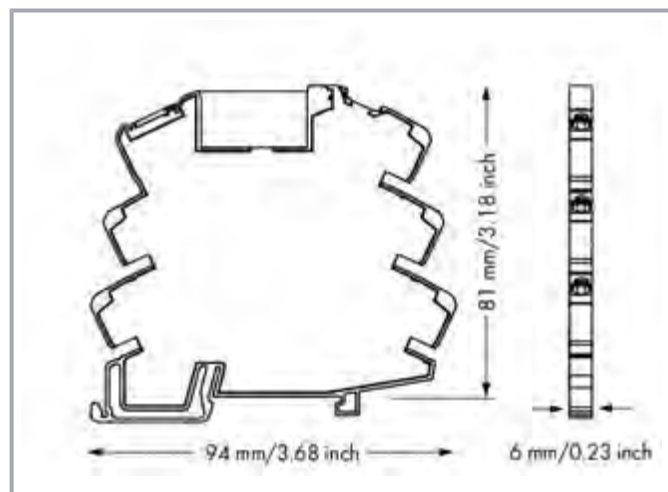
Solid-state relay module; Nominal input voltage: 24 VDC; Output voltage range: 24 ... 240 VAC; Limiting continuous current: 2 A; 2-wire connection; zero-cross switching; Yellow status indicator; Module width: 6 mm; gray



Color: —



Current-carrying capacity curve



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



Item description

Note:

Optocouplers and solid state relays are designed for use in signal processing networks, which are not supplied by the low-voltage power supply networks.

Data

Technical data

Control circuit

Nominal input voltage U_N	DC 24 V
Input voltage range (low level)	DC 0 ... 10 V
Input voltage range (high level)	DC 20 ... 28.8 V
Nominal input current at U_N	9.2 mA

Load circuit

Circuit type	2-wire connection Zero-voltage switching
Limiting continuous current	2 A
Nominal output voltage	AC 230 V
Output voltage range	AC 24 ... 240 V
Voltage drop at output (max.)	$\leq$ AC 1.6 V
Leakage current at rated voltage	$\leq$ 1.5 mA
Switching current (min.)	22 mA
Turn-on time	$\leq$ 10 ms
Turn-off time	$\leq$ 10 ms
Switching frequency	50 Hz / 60 Hz

Signaling

Status indicator	Yellow LED
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Safety and protection

Dielectric strength, control/load circuit (AC, 1 min)	3.75 kVrms
Protection type	IP20

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



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

Physical data

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

Mechanical data

Mounting type	DIN-35 rail
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Material data

Color	gray
Weight	28.6 g

Environmental requirements

Surrounding air temperature (operation at U _N)	-20 ... 60 °C
Surrounding air temperature (storage)	-40 ... 70 °C
Processing temperature	-25 ... +50 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

Standards/Specifications	EN 61000-6-2 EN 61000-6-3 EN 61373 EN 61010-2-201 UL 508
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Basic relay

WAGO Basic Relay	857-167
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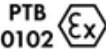
Subject to changes. Please also observe the further product documentation!

Commercial data

Product Group	6 (Interface Electronics)
PU (SPU)	25 (1) Stück
Packaging type	box
Country of origin	CN
GTIN	4045454835545
Customs tariff number	8536509065

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX DEKRA EXAM GmbH	EN 60079-0	BVS_14_ATEX_E_091_X
	CCCEX CQST/CNEX	CNCA-C23-01	2020312304000757
	IECEx DEKRA EXAM GmbH	IEC 60079-0	IECEx_BVS_14.0079_X

UL-Approvals

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

Optional accessories

Interface module

Interface adapter			
	Item no.: 857-982 Interface adapter; 14-pole; High-side switching output		
	Item no.: 857-986 Interface adapter; 15-pole; High-side switching input		

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



Item no.: 857-981

Interface adapter; 14-pole; High-side switching input

General accessories

Basic solid-state relay



Item no.: 857-167

Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range: 24 ... 240 VAC; Limiting continuous current: 2 A

Protective marker cover



Item no.: 209-184

Protection cover; transparent

Tools

Operating tool



Item no.: 210-720

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

Jumpers

Jumper



Item no.: 859-408

Push-in type jumper bar; Light gray; Insulated; 18 A; 8-position



Item no.: 281-482

Jumper; insulated; gray



Item no.: 859-404/000-005

Jumper; for jumper slot; 4-way; insulated; red



Item no.: 859-404/000-006

Jumper; for jumper slot; 4-way; insulated; blue



Item no.: 859-405/000-005

Jumper; for jumper slot; 5-way; insulated; red



Item no.: 859-405/000-029

Jumper; for jumper slot; 5-way; insulated; yellow



Item no.: 859-405

Push-in type jumper bar; Light gray; Insulated; 18 A; 5-position



Item no.: 859-404/000-029

Jumper; for jumper slot; 4-way; insulated; yellow

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



Item no.: 859-406
Push-in type jumper bar; Light gray; Insulated; 18 A; 6-position



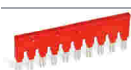
Item no.: 859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue



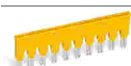
Item no.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red



Item no.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow



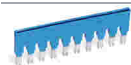
Item no.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red



Item no.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow



Item no.: 859-410
Push-in type jumper bar; Light gray; Insulated; 18 A; 10-position



Item no.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue



Item no.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red



Item no.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow



Item no.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow



Item no.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue



Item no.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red



Item no.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow

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

	Item no.: 859-409 Push-in type jumper bar; Light gray; Insulated; 18 A; 9-position
	Item no.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue
	Item no.: 859-403 Push-in type jumper bar; Light gray; Insulated; 18 A; 3-position
	Item no.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red
	Item no.: 859-404 Push-in type jumper bar; Light gray; Insulated; 18 A; 4-position
	Item no.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated; blue
	Item no.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue
	Item no.: 859-402 Push-in type jumper bar; Light gray; Insulated; 18 A; 2-position
	Item no.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red
	Item no.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue
	Item no.: 859-406/000-029 Jumper; for jumper slot; 6-way; insulated; signal yellow
	Item no.: 859-407/000-006 Jumper; for jumper slot; 7-way; insulated; blue
	Item no.: 859-407/000-005 Jumper; for jumper slot; 7-way; insulated; red
	Item no.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow

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

**Item no.: 859-407**

Push-in type jumper bar; Light gray; Insulated; 18 A; 7-position

Marking accessories

Marking strip

**Item no.: 2009-110**

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

Marking device

**Item no.: 210-110**

Fiber-tip pen

Double marker carrier

**Item no.: 209-128**

Adaptor; gray

Marker

**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.: 209-183**

Marker card; white

**Item no.: 793-501**

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

**Item no.: 793-502**

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

**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.: 793-506**

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

**Item no.: 793-566**

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

Item no.: 793-5501

Subject to cha



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

Group marker carrier



Item no.: 249-105
Group marker carrier; gray

Ferrules

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

Downloads

Documentation

Bid Text

Item no.	Date	File name	Size
857-714	Feb 20, 2019	docx	16.7 kB

docx - Datei

857-714	Feb 19, 2019	xml	4.3 kB
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X81 - Datei

Instruction Leaflet

Elektromechanical and Solid-State Relays/Optocouplers	V 1.4.1 Oct 9, 2020	pdf	2.6 MB
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf	265.8 kB
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CAD files

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

CAD data

2D/3D Models 857-714

CAE data

WSCAD Universe 857-714

ZUKEN Portal 857-714

EPLAN Data Portal 857-714

Environmental Product Compliance

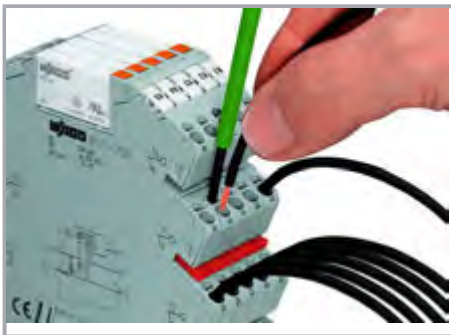
Compliance Search

Environmental Product Compliance 857-714

Solid-state relay module; Nominal input voltage: 24 VDC; Output voltage range: 24 ... 240 VAC; Limiting continuous current: 2 A; 2-wire connection; zero-cross switching; Yellow status indicator; Module width: 6 mm; gray

Installation Notes

Conductor termination



Conductor termination

Commoning

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



Easy commoning using adjacent jumpers

Marking



Marking via WMB Multi Marking System.

Installation



Removing a relay via ejector.

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