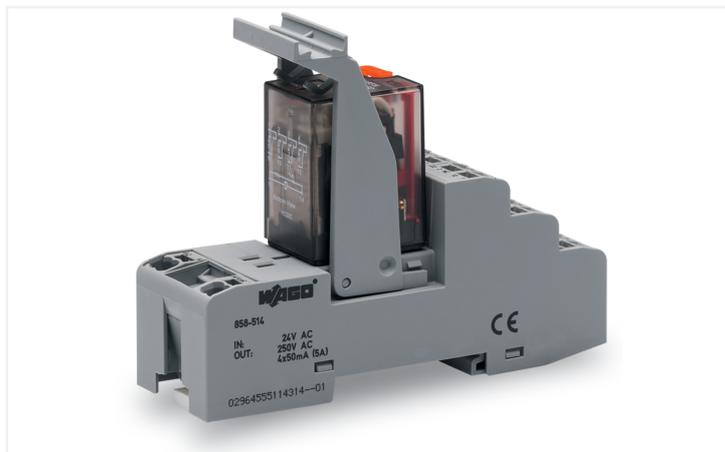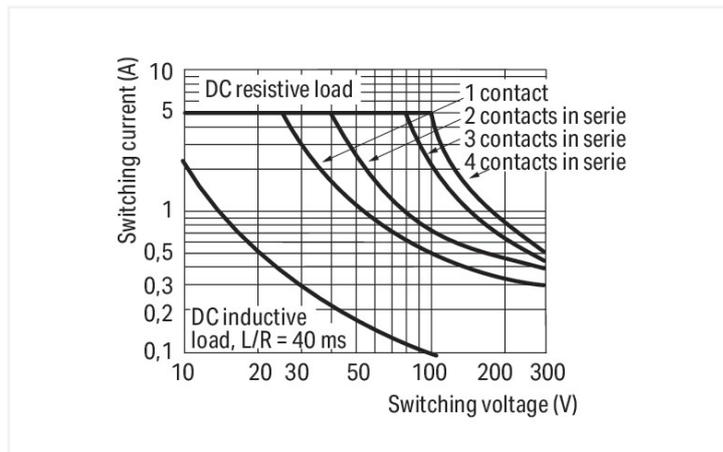# Data Sheet | Item Number: 858-518

Relay module; Nominal input voltage: 230 VAC; 4 changeover contacts; Limiting continuous current: 5 A; with gold contacts; with manual operation; Red status indicator; Module width: 31 mm; 1,50 mm²
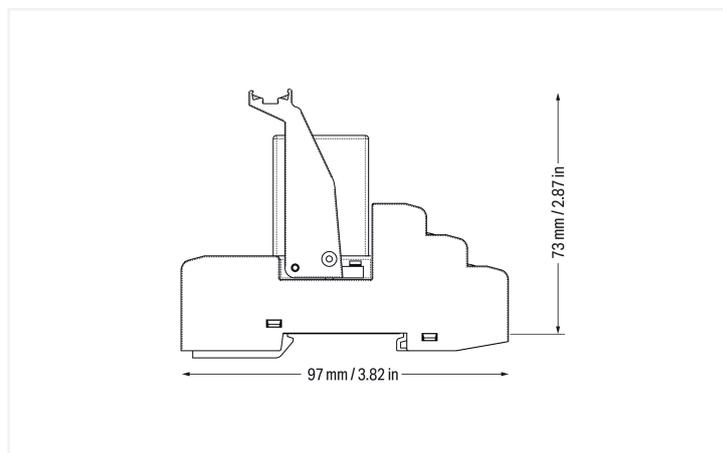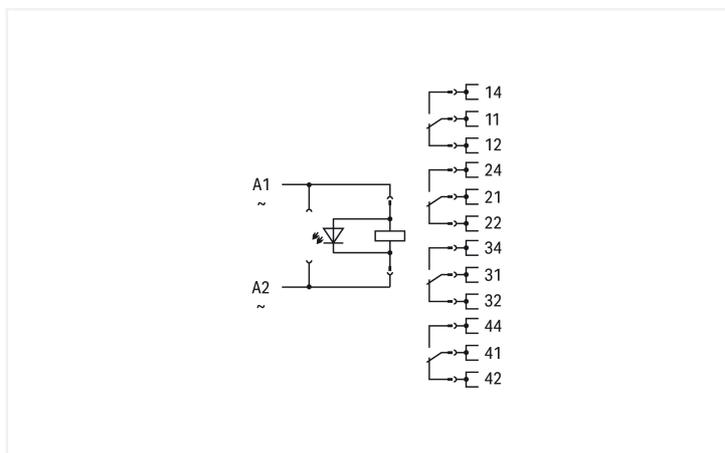
Similar to illustration

DC load limit curve

Notes

Note	To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents must not be exceeded. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life.

Technical data

Control circuit

Nominal input voltage U_N	230 VAC
Input voltage range	-20 … +10 %
Nominal input current at U_N	9 mA

Load circuit

Number of changeover/switchover contacts	4
Contact material (relay)	AgCe + Au
Limiting continuous current	5 A
Inrush current (resistive) max.	(AC) 15 A / 4 s
Switching Voltage, Max.	250 VAC
Switching power (resistive) max.	AC 1250 VA; DC (see load limit curve)
Switching capacity	AC-15: 1 A / 240 VAC; DC-13: 2 A / 24 VDC
Recommended minimum load	5 V / 1 mA / 50 mW

Load circuit

Pull-in time (typ.)	25 ms
Drop-out time (typ.)	35 ms
Bounce time (typ.)	4 ms
Electrical life (NO; resistive load; 23 °C)	100 x 10³ switching operations
Mechanical life	20 x 10⁶ switching operations

Signaling

Status indicator	Red LED Mechanical

Safety and protection

Rated Voltage	300 V
Rated impulse withstand voltage	2.5 kV
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	1.5 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms
Dielectric strength (load/load circuit) (AC, 1 min)	1.5 kVrms
Insulation type (control/load circuit)	Basic insulation
Insulation type (open contact)	Functional insulation
Insulation type (load/load circuit)	Basic insulation
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)
Protection type	IP20

Connection Data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 … 1.5 mm² / 22 … 16 AWG
Fine-stranded conductor	0.34 … 1.5 mm² / 22 … 16 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches
Note (conductor cross-section)	2 x 0.34 … 2 x 1.5 mm² / 1 x 2.5 mm² / 2 x 22 … 2 x 16 AWG

Physical data

Width	31 mm / 1.22 inches
Height	97 mm / 3.819 inches
Depth from upper-edge of DIN-rail	73 mm / 2.874 inches

Mechanical data

Mounting type	DIN-35 rail
Mounting position	horizontal (standing/lying); vertical

Material data

Note (material data)	Information on material specifications can be found here
Fire load	1.254 MJ
Weight	96.6 g

Environmental requirements

Ambient temperature (operation at U_N)	-25 … +70 ℃
Ambient temperature (storage)	-40 … +70 ℃
Processing temperature	-25 … +50 ℃
Temperature range of connection cable	≥ ($T_{ambient}$ + 25 K)
Relative humidity	5 … 85 %
Operating altitude (max.)	2000 m

Standards and Specifications

Standards/specifications	EN 61010-2-201 EN 61810-1 EN 61373 UL 508 (max. 50 ℃) DNV

Basic relay

WAGO Basic Relay	858-153

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	5 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143568210
Customs tariff number	85364900990

Product Classification

UNSPSC	39122334
eCl@ss 10.0	27-37-16-01
eCl@ss 9.0	27-37-16-01
ETIM 9.0	EC001437
ETIM 10.0	EC001437
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03084

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 858-518	↓

Documentation

Bid Text

858-518	19.02.2019	xml 5.12 KB	↓
858-518	20.02.2019	docx 17.37 KB	↓

Instruction Leaflet

Stecksockel für Elementarrelais	V 2.0.0 25.01.2022	pdf 2130.02 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 858-518	↓

CAE data

EPLAN Data Portal 858-518	↓
WSCAD Universe 858-518	↓
ZUKEN Portal 858-518	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 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

1.1.2 Filter module

1.1.2.1 Suppressor module

Item No.: 788-148
Filter module; RC filter element; Nominal voltage: 230 VAC

1.1.3 Indicators

1.1.3.1 Status indication

Item No.: 788-125
Accessories for relay modules; Operation status indicator: red

1.1.4 Jumper

1.1.4.1 Jumper

Item No.: 858-402
Jumper; 2-way; insulated; light blue

1.1.5 Marking

1.1.5.1 Double marker carrier

Item No.: 209-128
Adaptor; gray

1.1.5.2 Group marker carrier

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

Item No.: 209-145
Group marker carrier; white

1.1.5.3 Marker

Item No.: 209-183
Marker; white

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.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (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.: 793-503
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

1.1.5.3 Marker

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

1.1.5.4 Marking device

Item No.: 210-110

Fiber-tip pen

1.1.5.5 Marking strip

Item No.: 2009-110

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

1.1.5.6 Protective marker cover

Item No.: 209-184

Protection cover; transparent

1.1.6 Tool

1.1.6.1 Operating tool

Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

Commoning

Removing a jumper via screwdriver.

Marking

Marking using WMB Multi markers and group marker carriers.

Current addresses can be found at:: www.wago.com