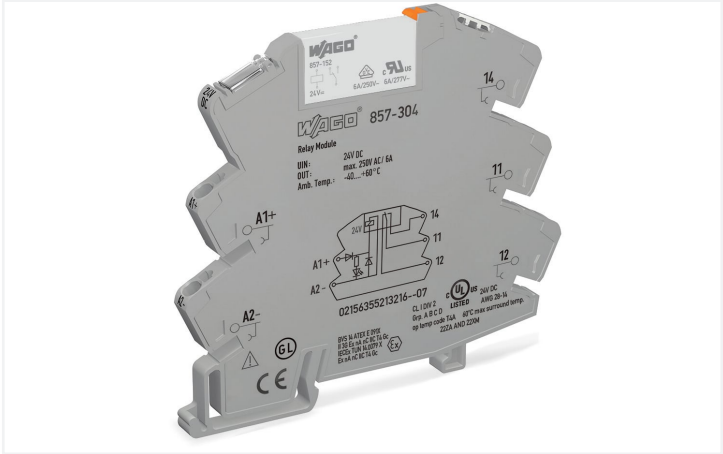


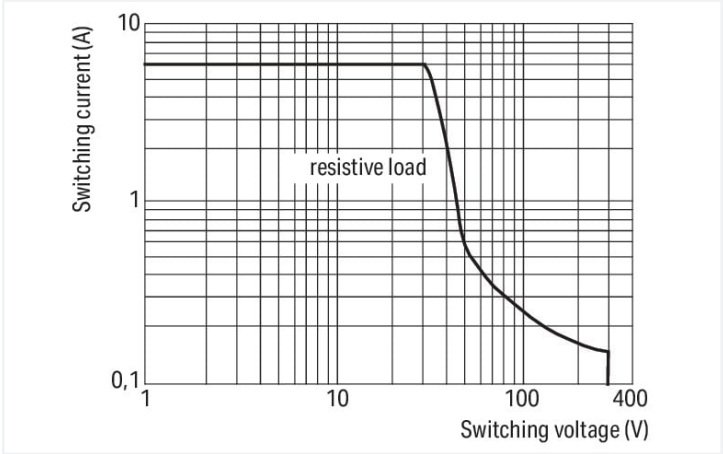
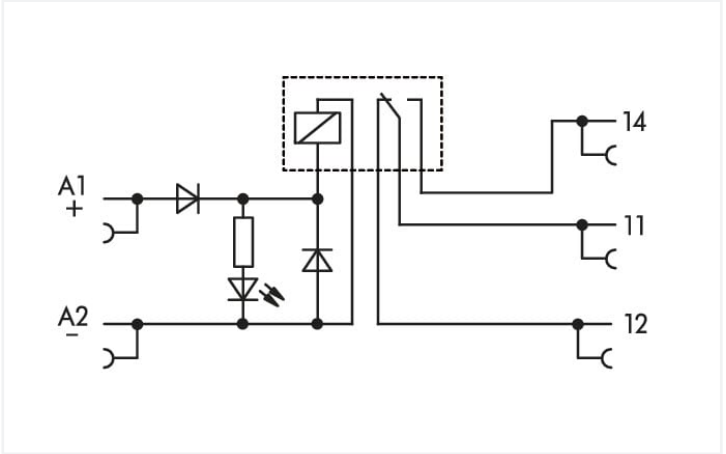
Data Sheet | Item Number: 857-304

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm; 2,50 mm²; gray

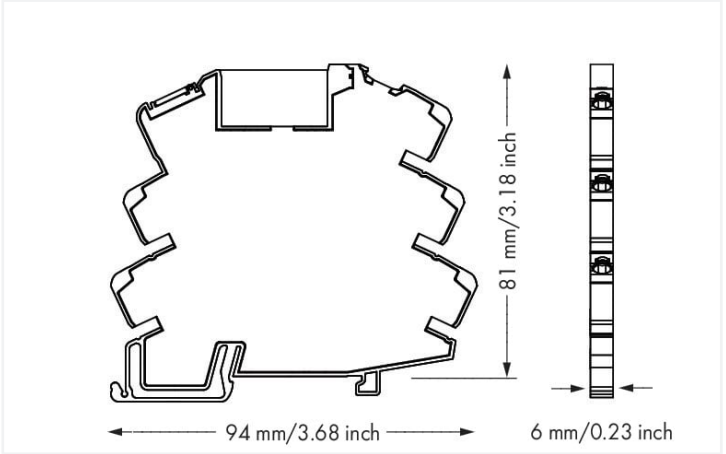
<https://www.wago.com/857-304>



Color: ■ gray



DC load limit curve



Dimensions in mm

Notes	
Safety information	Adjacent devices of the same type are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.
Note	To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

Technical data	
Control circuit	
Nominal input voltage U_N	DC 24 V
Input voltage range	-15 ... +20 %
Nominal input current at U_N	10 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
Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	6 ms
Drop-out time (typ.)	6 ms



Load circuit	
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
Short circuit protection (load circuit)	4 A; Fast (F)

Signaling	
Status indicator	Yellow LED

Safety and protection	
Rated voltage	300 V
Rated surge voltage	4 kV
Type of circuits	Mains circuits
Overvoltage category	III
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3.51 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)
Insulation type (between adjacent devices of the same type)	Double insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Basic insulation
Safety information	Adjacent devices of the same type are devices of the same design (series) that are arranged next to each other with the same orientation on the mounting rail. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.
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
Fine-stranded conductor; with insulated ferrule	0.34 ... 1.5 mm ² / 22 ... 16 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

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

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

Material data	
Color	gray
Fire load	0.69 MJ
Weight	31.6 g



Environmental requirements	
Ambient temperature (operation at U _N)	-40 ... +60 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 30 K)
Relative humidity	5 ... 85 % (no condensation permissible)
Operating altitude (max.)	2000 m

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

Basic relay	
WAGO Basic Relay	857-152

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-37-16-01
eCl@ss 9.0	27-37-16-01
ETIM 8.0	EC001437
ETIM 7.0	EC001437
PU (SPU)	25 (1) pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821797807
Customs tariff number	85364900990

Environmental Product Compliance	
CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a)
SCIP notification number (Bulgaria)	eef0664d-a21b-433f-afc4-ab42515ee6c3
SCIP notification number (Czech Republic)	8aa3a726-fc3a-498a-9b94-2bf6b05022fd

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	EAC Ex 857 RU_C_DE. AZ_58_B_02148_21 nA nC (2Ex nA nC IIC T4 Gc X)
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

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



Approvals for marine applications

  		
Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1
PRS Polski Rejestr Statków	-	TE/2186/880590/18

Approvals for hazardous areas

  		
Approval	Standard	Certificate Name
ATEX DEKRA EXAM GmbH	EN 60079-0	BVS_14_ATEX_E_091_X (II 3G Ex ec nC IIC T4 Gc; II 3G Ex ec IIC T4 Gc)
CCC CNEX	CNCA-C23-01	2020312304000757 (Ex ec nC IIC T4 Gc)
IECEx DEKRA EXAM GmbH	IEC 60079-0	IECEx_BVS_14.0079X_Issue_3 (Ex ec nC IIC T4 Gc; Ex ec IIC T4 Gc)
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA-GO22UKEX002X_ec nC
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 857-304 

Documentation

Bid Text
857-304 19.02.2019 xml 4.70 KB 
857-304 20.02.2019 docx 16.43 KB 
ausschreiben.de 857-304 

Instruction Leaflet
CCC Ex (Additional information) 26.04.2023 pdf 129.88 KB 

CAD/CAE-Data

CAD data
2D/3D Models 857-304 

CAE data
EPLAN Data Portal 857-304 
WSCAD Universe 857-304 
ZUKEN Portal 857-304 



1 Compatible Products				
1.1 Optional Accessories				
1.1.1 Basic relay				
1.1.1.1 Basic relay				
				
Item No.: 857-152 Basic relay; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm				
1.1.2 Ferrule				
1.1.2.1 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	
1.1.3 Interface module				
1.1.3.1 Interface adapters				
  				
Item No.: 857-981 Interface adapter; 14-pole; High-side switching input	Item No.: 857-982 Interface adapter; 14-pole; High-side switching output	Item No.: 857-986 Interface adapter; 15-pole; High-side switching input		
1.1.4 Jumper				
1.1.4.1 Jumper				
   				
Item No.: 281-482 Jumper; 2-way; insulated; gray	Item No.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	Item No.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray	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.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	Item No.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	Item No.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red	
   				
Item No.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow	Item No.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	Item No.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	
   				
Item No.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow	Item No.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue	Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray	Item No.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red	



1.1.4.1 Jumper



[Item No.: 859-404/000-029](#)
Jumper; for jumper slot; 4-way; insulated; yellow



[Item No.: 859-405/000-006](#)
Jumper; for jumper slot; 5-way; insulated; blue



[Item No.: 859-405](#)
Jumper; for jumper slot; 5-way; insulated; light gray



[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.: 859-406/000-006](#)
Jumper; for jumper slot; 6-way; insulated; blue



[Item No.: 859-406](#)
Jumper; for jumper slot; 6-way; insulated; light gray



[Item No.: 859-406/000-005](#)
Jumper; for jumper slot; 6-way; insulated; red



[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](#)
Jumper; for jumper slot; 7-way; insulated; light gray



[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



[Item No.: 859-408/000-006](#)
Jumper; for jumper slot; 8-way; insulated; blue



[Item No.: 859-408](#)
Jumper; for jumper slot; 8-way; insulated; light gray



[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



[Item No.: 859-409/000-006](#)
Jumper; for jumper slot; 9-way; insulated; blue



[Item No.: 859-409](#)
Jumper; for jumper slot; 9-way; insulated; light gray



[Item No.: 859-409/000-005](#)
Jumper; for jumper slot; 9-way; insulated; red



[Item No.: 859-409/000-029](#)
Jumper; for jumper slot; 9-way; insulated; yellow

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

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

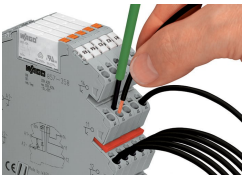
1.1.6.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

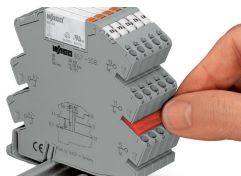
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via WMB Multi Marking System.

Installation



Removing a relay via ejector.