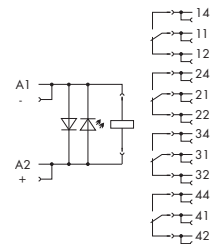
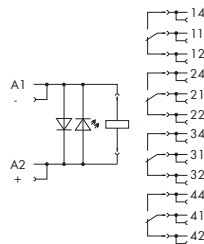


1 Sockets with Industrial Relay

	Socket with industrial relay Coil voltage: 24 V DC 4 changeover contacts	Socket with industrial relay Coil voltage: 24 V DC 4 changeover contacts (gold contacts)
--	---	---

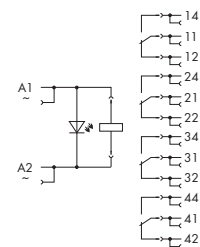
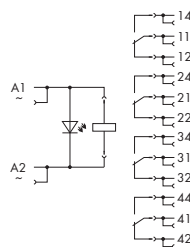


* In order to prevent the gold layer from being damaged, these values shall not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkovers between the coil and the contact.

Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Relay socket with industrial relay, for DIN 35 rail	858-304	1	858-314	1

Technical Data		Accessories see pages 96 ... 98	Accessories see pages 96 ... 98
Coil			
Coil voltage	24 V DC		24 V DC
Rated power	0.9 W		0.9 W
Coil current	36.9 mA		36.9 mA
Operating range	0.8 ... 1.1 x V		0.8 ... 1.1 x V
Holding voltage	50 % of V _N		50 % of V _N
Release voltage	0.1 x V		0.1 x V
Contacts			
Contact material	AgCe		AgCe + 5 µm Au
Continuous current	5 A		50 mA*
Inrush current	15 A / 4 s		15 A / 4 s
Max. switching voltage	250 V AC / 30 V DC		30 V DC*
Switching power (max.) AC1 / AC15	1250 VA / 300 VA		1250 VA / 300 VA
1-phase motor load AC3	0.12 kW		0.12 kW
Switching current (max.) DC1	5 A at 30 V DC		5 A at 30 V DC
Min. switching load	12 V / 100 mA		12 V / 100 mA
Switching frequency under load	20 cycles/min.		20 cycles/min.
General Specifications			
Mechanical life	20 x 10 ⁶ switching operations		20 x 10 ⁶ switching operations
Electrical life	1 x 10 ⁵ switching operations		1 x 10 ⁵ switching operations
Pull-in/drop-out/bounce time typ.	25 ms / 25 ms / 4 ms		25 ms / 25 ms / 4 ms
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 2.5 kV / 2		250 V / 2.5 kV / 2
Dielectric strength contact-coil (1.2/50 µs)	4 kV		4 kV
Dielectric strength contact-coil (AC, 1 min)	1.5 kV		1.5 kV
Dielectric strength open contact	1 kV		1 kV
Dielectric strength contact-contact	1.5 kV		1.5 kV
Ambient operating temperature	-25 °C ... +70 °C (V _I + 50 °C)		-25 °C ... +70 °C (V _I + 50 °C)
Storage temperature	-40 °C ... +80 °C		-40 °C ... +80 °C
Dimensions (mm) W x H x L	31 x 73 x 97		31 x 73 x 97
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S		Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² / AWG 22 ... 16		2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² / AWG 22 ... 16
Stripped lengths	9 ... 10 mm / 0.37 in		9 ... 10 mm / 0.37 in

	Socket with industrial relay Coil voltage: 230 V AC 4 changeover contacts	Socket with industrial relay Coil voltage: 230 V AC 4 changeover contacts (gold contacts)
--	--	--



* In order to prevent the gold layer from being damaged, these values shall not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkovers between the coil and the contact.

Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Relay socket with industrial relay, for DIN 35 rail	858-508	1	858-518	1

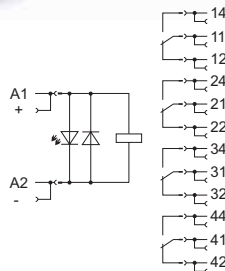
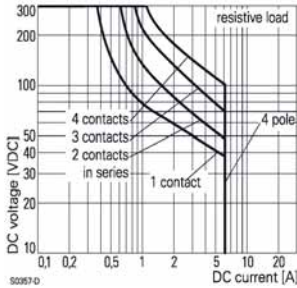
Technical Data

Accessories see pages 96 ... 98

Accessories see pages 96 ... 98

Coil		
Coil voltage	230 V AC	230 V AC
Rated power	1.2 VA	1.2 VA
Coil current	8.3 mA	8.3 mA
Operating range	0.8 ... 1.1 x V	0.8 ... 1.1 x V
Holding voltage	80 % of V _N	80 % of V _N
Release voltage	0.3 x V	0.3 x V
Contacts		
Contact material	AgCe	AgCe + 5 µm Au
Continuous current	5 A	50 mA*
Inrush current	15 A / 4 s	15 A / 4 s
Max. switching voltage	250 V AC / 30 V DC	30 V DC*
Switching power (max.) AC1 / AC15	1250 VA / 300 VA	1250 VA / 300 VA
1-phase motor load AC3	0.12 kW	0.12 kW
Switching current (max.) DC1	5 A at 30 V DC	5 A at 30 V DC
Min. switching load	12 V / 100 mA	12 V / 100 mA
Switching frequency under load	20 cycles/min.	20 cycles/min.
General Specifications		
Mechanical life	20 x 10 ⁶ switching operations	20 x 10 ⁶ switching operations
Electrical life	1 x 10 ⁵ switching operations	1 x 10 ⁵ switching operations
Pull-in/drop-out/bounce time typ.	25 ms / 25 ms / 4 ms	25 ms / 25 ms / 4 ms
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 2.5 kV / 2	250 V / 2.5 kV / 2
Dielectric strength contact-coil (1.2/50 µs)	4 kV	4 kV
Dielectric strength contact-coil (AC, 1 min)	1.5 kV	1.5 kV
Dielectric strength open contact	1 kV	1 kV
Dielectric strength contact-contact	1.5 kV	1.5 kV
Ambient operating temperature	-25 °C ... +70 °C (V _L + 50 °C)	-25 °C ... +70 °C (V _L + 50 °C)
Storage temperature	-40 °C ... +80 °C	-40 °C ... +80 °C
Dimensions (mm) W x H x L	31 x 73 x 97	31 x 73 x 97
	Height from upper-edge of DIN 35 rail	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®S	CAGE CLAMP®S
Cross sections	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² /	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² /
Stripped lengths	AWG 22 ... 16 9 ... 10 mm / 0.37 in	AWG 22 ... 16 9 ... 10 mm / 0.37 in

Relay sockets with industrial relay
 Coil voltage:
 24 VDC, 110 VDC, 220 VDC
 4 changeover contacts



Description	V _N	I _N	Item No.	Pack. Unit
Relay socket with industrial relay, for DIN 35 rail	24 VDC	31.5 mA	858-390	1
	110 VDC	7.7 mA	858-392	1
	220 VDC	4.3 mA	858-391	1

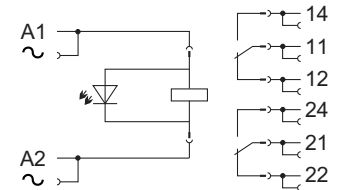
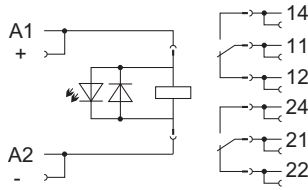
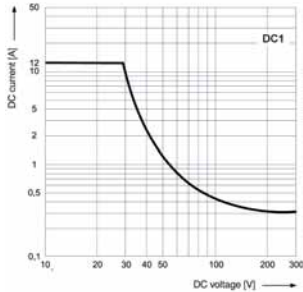
Technical Data

Accessories see pages 96 ... 98

Coil	
Input voltage range	U _N -10 % ... +30 %
Contacts	
Contact material	AgNi 90/10
Max. continuous current	4 x 6 A
Max. make current (resistive) at a 10 % duty cycle	12 A / 20 ms
Max. switching voltage	240 VAC
Max. Switching power (resistive)	4 AC x 1500 VA, DC see load curve
Recommended minimum load	12 V / 10 mA
Pull-in/drop-out/bounce time typ.	15 ms / 18 ms / 8 ms
Mechanical life	30 x 10 ⁶ switching operations
General specifications:	
Nominal voltage acc. to IEC 60664-1	250 V / 2.5 kV / 2
Dielectric strength contact-coil	2.5 kV _{eff}
Surge capacity open contact	1.2 kV _{eff}
Dielectric strength contact-contact (AC, 1 min.)	2 kV _{eff}
Ambient operating temperature (V _N)	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Dimensions (mm) W x H x L	31 x 55 x 97
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP® S
Cross sections	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2,5 mm ²
Stripped lengths	AWG 22 ... 16 9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61810-1, EN 60664-1
(OT = On-time)	

Relay Sockets with Industrial Relay

	Relay sockets with industrial relay Coil voltage: 24 VDC, 48 VDC, 110 VDC, 220 VDC 2 changeover contacts	Relay socket with industrial relay Coil voltage: AC 230 V 2 changeover contacts
--	--	---



Description	V _N	I _N	Item No.	Pack. Unit	V _N	I _N	Item No.	Pack. Unit
Relay socket with industrial relay, for DIN 35 rail	24 VDC	37.5 mA	858-324	1	230 VAC	11 mA	858-528	8
	48 VDC	18.5 mA	858-325	8				
	110 VDC	8.1 mA	858-327	8				
	220 VDC	4.1 mA	858-328	8				

Technical Data

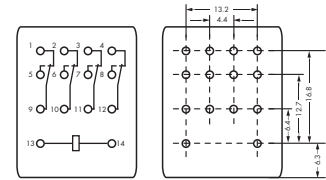
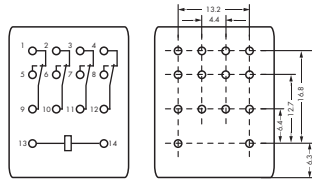
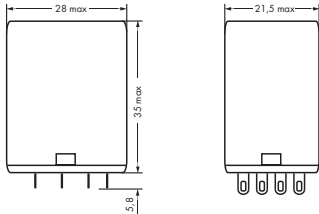
Accessories see pages 96 ... 98

Accessories see pages 96 ... 98

Coil		
Input voltage range	U _N -20 % ... +10 %	U _N -20 % ... +10 %
Contacts		
Contact material	AgNi	AgNi
Max. continuous current	2 x 12 A	2 x 12 A
Max. make current (resistive) at a 10 % duty cycle	24 A / 4 s	24 A / 4 s
Max. switching voltage	250 VAC	250 VAC
Max. Switching power (resistive)	2 AC x 3000 VA, DC see load curve	2 AC x 3000 VA, DC see load curve
Recommended minimum load	5 V / 5 mA / 0.3 W	5 V / 5 mA / 0.3 W
Pull-in/drop-out/bounce time typ.	13 ms / 3 ms	10 ms / 8 ms
Mechanical life	2 x 10 ⁷ switching operations	2 x 10 ⁷ switching operations
General specifications:		
Nominal voltage acc. to IEC 60664-1	250 V / 4 kV / 2	250 V / 4 kV / 2
Dielectric strength contact-coil	2.5 kV _{eff}	2.5 kV _{eff}
Surge capacity open contact	1.5 kV _{eff}	1.5 kV _{eff}
Dielectric strength contact-contact (AC, 1 min.)	2.5 kV _{eff}	2.5 kV _{eff}
Ambient operating temperature (V _N)	-40 °C ... +70 °C	-40 °C ... +55 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) W x H x L	31 x 73 x 97	31 x 73 x 97
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP® S	Height from upper-edge of DIN 35 rail CAGE CLAMP® S
Cross sections	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² / AWG 22 ... 16	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² / AWG 22 ... 16
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61810-1, EN 60664-1	EN 61810-1, EN 60664-1

(OT = On-time)

	Pluggable industrial relays, 4 changeover contacts with integrated LED and recovery diode and manual operation	Pluggable industrial relays, 4 changeover contacts with integrated LED and manual operation
--	---	--



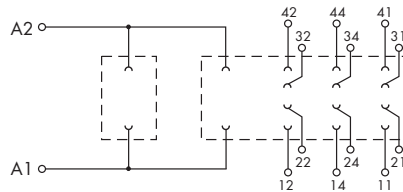
* In order to prevent the gold layer from being damaged these values should not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkover between the coil and the contact.

Description	V _N	Item No.	Pack. unit	V _N	Item No.	Pack. unit
Pluggable industrial relay	24 V DC	858-150	1	240 V AC	858-151	1
	24 V DC*	858-152	1	240 V AC*	858-153	1

Technical Data

Coil		
Coil voltage	24 V DC	240 V AC
Rated power	0.9 W	1.2 VA
Coil current	36.9 mA	8.3 mA
Operating range	0.8 ... 1.1 x V	0.8 ... 1.1 x V
Holding voltage	50 % of V _N	80 % of V _N
Release voltage	0.1 x V	0.3 x V
Contacts		
Contact material	AgCe, AgCe + 5 μm Au* AgCe, AgCe + 5 μm Au*	AgCe, AgCe + 5 μm Au*
Continuous current	5 A *	5 A *
Inrush current	15 A / 4 s	15 A / 4 s
Max. switching voltage	250 V AC / 30 V DC	250 V AC / 30 V DC
Switching power (max.) AC1 / AC15	1250 VA / 300 VA	1250 VA / 300 VA
1-phase motor load AC3	0.12 kW	0.12 kW
Switching current (max.) DC1	5 A at 30 V DC	5 A at 30 V DC
Min. switching load	12 V / 100 mA	12 V / 100 mA
Switching frequency under load	20 cycles/min.	20 cycles/min.
General Specifications		
Mechanical life	20 x 10 ⁶ switching operations	20 x 10 ⁶ switching operations
Electrical life	1 x 10 ⁵ switching operations	1 x 10 ⁵ switching operations
Pull-in/drop-out/bounce time typ.	25 ms / 25 ms / 4 ms	25 ms / 25 ms / 4 ms
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 2 kV / 2	250 V / 2 kV / 2
Dielectric strength contact-coil (1.2/50 μs)	4 kV	4 kV
Dielectric strength contact-coil (AC, 1 min)	1.5 kV	1.5 kV
Dielectric strength open contact	1 kV	1 kV
Dielectric strength contact-contact	1.5 kV	1.5 kV
Ambient operating temperature	-25°C ... +70°C	-25°C ... +70°C
Mounting distance in a row	6 mm	6 mm
Weight	approx. 37 g	approx. 37 g

	Socket for industrial relays 2 and 4 changeover contacts	
--	---	--



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

Description	Item No.	Pack. Unit
Relay socket for industrial relays, for DIN 35 rail	858-100	1

Technical Data

Nominal input voltage (V _N)	depending on Relay; max. 250 V AC
Max. switching voltage	250 V AC
Max. continuous current	4 x 8 A (4 changeover contacts); 2 x 12 A (2 changeover contacts)
Max. Switching power (resistive)	4000 VA AC
Nominal operating mode	continuous duty
Dielectric strength	4 kV (depending on relay)
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 4 kV / 3
Degree of protection	IP 20
Ambient operating temperature	-25 °C ... +70 °C (depending on relay)
Storage temperature	-40 °C ... +80 °C
Dimensions (mm) W x H x L	31 x 39 x 97 Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®S
Stripped lengths	9 ... 10 mm / 0.37 in
Cross sections	2 x 0.34 mm ² ... 2 x 1.5 mm ² / 1 x 2.5 mm ² / AWG 22 ... 16
Approvals	IEC60664 / IEC60664A / DIN VDE0110 Degree of pollution 2 Overvoltage category 2

1 Accessories, 858 Series

98

Holding bracket



Description	Item No.	Pack. unit
Holding bracket for industrial relays (height 33.5 mm ... 35.5 mm)	858-110	1

Push-in type jumper bar



Description	Item No.	Pack. unit
Push-in type jumper bar	858-402	200

Status indication



Description	Power consumption at V_N	Item No.	Pack. Unit
Status indication 24 V DC (12 V ... 24 V)	2.4 mA	788-120	50 (2x25)
Status indication 48 V DC (48 V ... 60 V)	1.9 mA	788-121	50 (2x25)
Status indication 110 V DC	1.9 mA	788-122	50 (2x25)
Status indication 24 V AC	2.1 mA	788-123	50 (2x25)
Status indication 115 V AC	1.7 mA	788-124	50 (2x25)
Status indication 230 V AC	1.6 mA	788-125	50 (2x25)

NOTE:

Only required when using relays without integrated operating indicator!

Operating tool



Description	Item No.	Pack. unit
Operating tool, with partially insulated shaft Type 2, blade (3.5 x 0.5) mm	210-720	1