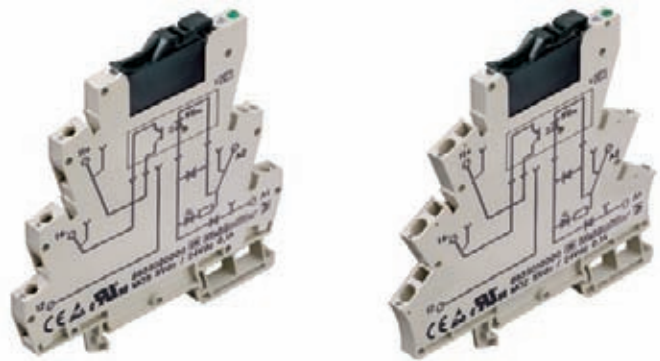


Optos - MICROSERIES

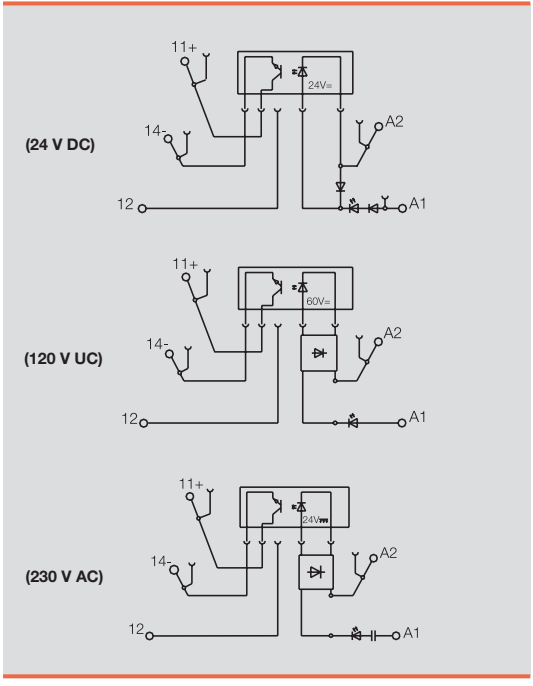
MOS / MOZ 3...48 V DC / 0.1 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35



C



Load side	
Nominal switching voltage	3...48 V DC
Nominal switching current	0.1 A
Voltage drop at max. load	≤ 1 V
Leakage current	≤ 1 mA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C...+50 °C
Storage temperature	-40 °C...+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2
Dimensions	
Clamping range (rating- / min. / max.)	mm ² 2.5 / 0.5 / 4
Length x width x height	mm 93 / 6.1 / 92
Note	
Cross-connectors and markers - refer to MICROSERIES accessories	

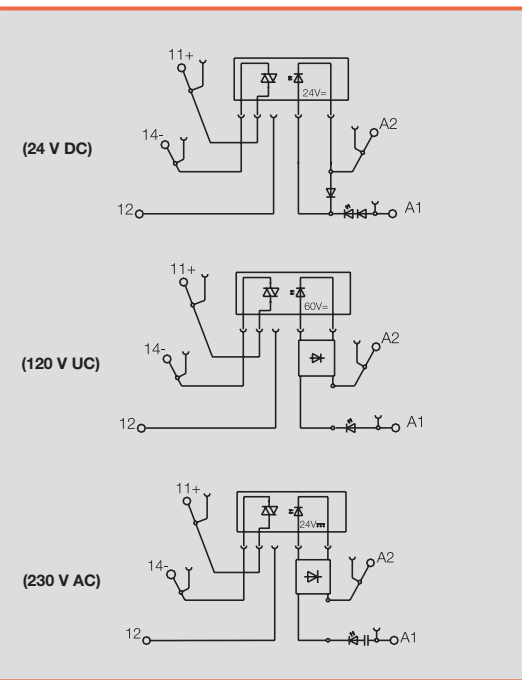
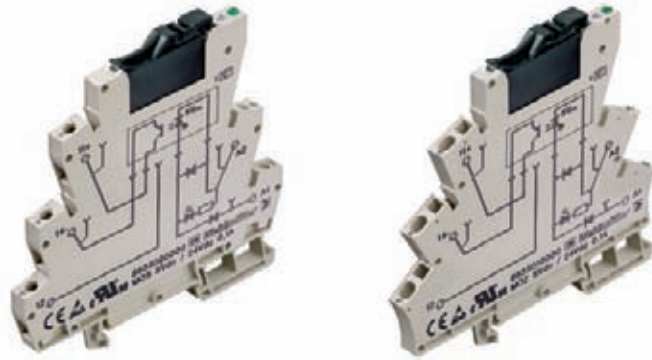
Ordering data	5 V DC / 24 V DC 0.1 A	24 V DC / 24 V DC 0,1 A	120 V UC / 24 V DC 0,1 A	230 V AC / 24 V DC 0,1 A
Control side				
Rated voltage	5 V DC ±20%	24 V DC ±20 %	120 V UC + 10 % / -15 %	230 V AC ±10%
Power rating	55 mW ±10 %	140 mW	340 mW / 0.4 VA	1.7 VA
max. input frequency	10 Hz	300 Hz	DC: 10 Hz / AC: 3 Hz	3 Hz
Switch-on delay	< 6,5 ms	35µs	< 6.5 ms	< 6.5 ms
Switch-off delay	< 10 ms	355µs	< 10 ms	< 10 ms

Ordering data	5 V DC / 24 V DC 0,1 A	24 V DC / 24 V DC 0,1 A	120 V UC / 24 V DC 0,1 A	230 V AC / 24 V DC 0,1 A
Complete module				
Screw connection	Type MOS 5Vdc / 24Vdc 0,1A	Type MOS 24Vdc / 24Vdc 0.1A	Type MOS 120Vuc / 24Vdc 0.1A	Type MOS 230Vac / 24Vdc 0.1A
Order No.	8633020000	8607340000	8607690000	8607710000
Tension clamp connection	Type MOZ 5Vdc / 24Vdc 0.1A	Type MOZ 24Vdc / 24Vdc 0,1A	Type MOZ 120Vuc / 24Vdc 0.1A	Type MOZ 230Vac / 24Vdc 0.1A
Order No.	8633010000	8607360000	8607730000	8607750000
Spare relay, pluggable				
Type	SSS Relais 5V/24V 0,1ADC	SSS Relais 24V/24V 0,1A dc	SSS Relais 60V/24V 0,1ADC	SSS Relais 24V/24V 0,1A dc
Order No.	4064320000	4061180000	4061230000	4061180000
Note				

MOS / MOZ 24...240 V AC / 1 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35



Load side	
Nominal switching voltage	24...240 V AC
Nominal switching current	1 A
Voltage drop at max. load	approx. 1.6 V
Leakage current	≤ 20 µA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C...+50 °C
Storage temperature	-40 °C...+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2
Dimensions	
Clamping range (rating- / min. / max.)	mm ² 2.5 / 0.5 / 4
Length x width x height	mm 93 / 6.1 / 92
Note	
Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data	24 V DC / 230 V AC 1 A	120 V UC / 230 V AC 1 A	230 V AC / 230 V AC 1 A	
Control side				
Rated voltage	24 V DC ±20 %	120 V UC + 10 %/ -15 %	230 V UC ±10 %	
Power rating	250 mW ± 15 %	0.4 VA ±15%	1,7 VA ± 20%	
max. input frequency	3 Hz	3 Hz	3 Hz	
Switch-on delay	< 11 ms	< 11 ms	< 20 ms	
Switch-off delay	< 11 ms	< 11 ms	< 20 ms	

Ordering data	24 V DC / 230 V AC 1 A	120 V UC / 230 V AC 1 A	230 V AC / 230 V AC 1 A	
Complete module				
Screw connection Type	MOS 24Vdc/ 230VAC 1A	MOS 120Vuc / 230VAC 1A	MOS 230Vuc/ 230VAc 1A	
Order No.	8652010000	8651930000	8651990000	
Tension clamp connection Type	MOZ 24Vdc/ 230VAC 1A	MOZ 120Vuc / 230VAC 1A	MOZ 230Vuc/ 230VAC 1A	
Order No.	8652020000	8651950000	8651970000	

Ordering data	24 V DC / 230 V AC 1 A	120 V UC / 230 V AC 1 A	230 V AC / 230 V AC 1 A	
Spare relay, pluggable				
Type	SSS Relais 24V/230V 1Aac	SSS Relais 60V/230V 1Aac	SSS Relais 24V/230V 1Aac	
Order No.	4061210000	4061220000	4061210000	

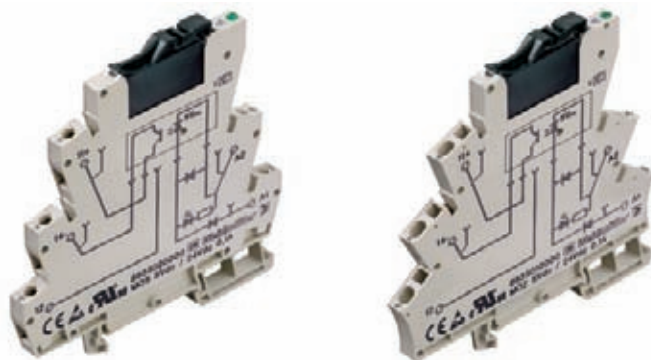
Note	24 V DC / 230 V AC 1 A	120 V UC / 230 V AC 1 A	230 V AC / 230 V AC 1 A	

Optos - MICROSERIES

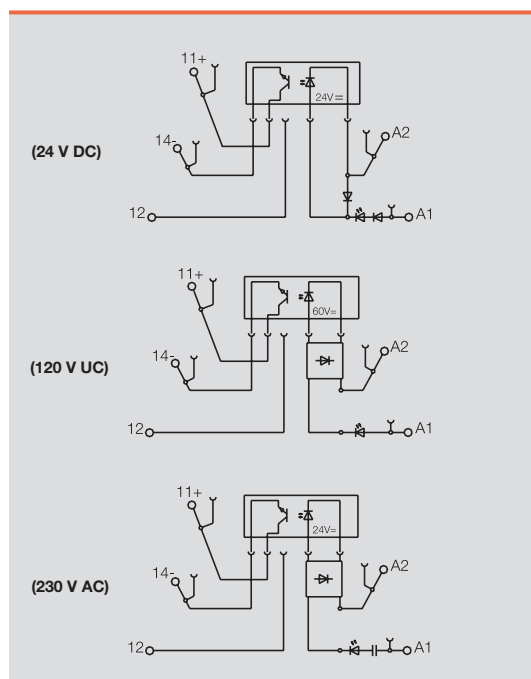
MOS / MOZ 3...33 V DC / 2 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35



C



Load side	
Nominal switching voltage	3...33 V DC
Nominal switching current	2 A
Voltage drop at max. load	≤ 120 mV
Leakage current	≤ 1 mA
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C...+50 °C
Storage temperature	-40 °C...+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2
Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm
Note	
Cross-connectors and markers - refer to MICROSERIES accessories	

Ordering data

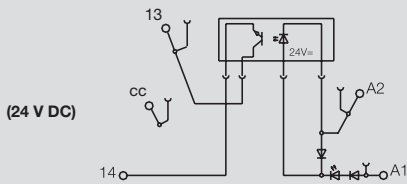
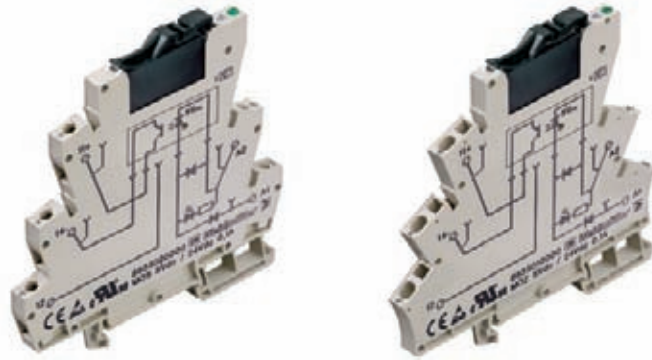
Control side	5 V DC / 24 V DC 2 A	24 V DC / 24 V DC 2 A	120 V UC / 24 V DC 2 A	230 V AC / 24 V DC 2 A
Rated voltage	5 V DC ±20%	24 V DC ±20 %	120 V UC + 10 % / -15 %	230 V AC ±10%
Power rating	55 mW ±10 %	140 mW	340 mW / 0.4 VA	1.7 VA
max. input frequency	300 Hz	300 Hz	DC: 10 Hz / AC: 3 Hz	3 Hz
Switch-on delay	< 55 µs	< 55 µs	< 6.5 ms	< 6.5 ms
Switch-off delay	< 1 ms	< 1.2 ms	< 10 ms	< 10 ms

Ordering data	5 V DC / 24 V DC 2 A	24 V DC / 24 V DC 2 A	120 V UC / 24 V DC 2 A	230 V AC / 24 V DC 2 A
Complete module				
Screw connection	Type: MOS 5Vdc / 24Vdc 2A	Type: MOS 24Vdc / 24Vdc 2A	Type: MOS 120Vuc / 24Vdc 2A	Type: MOS 230Vac / 24Vdc 2A
	Order No. 8633000000	Order No. 8607350000	Order No. 8607700000	Order No. 8607720000
Tension clamp connection	Type: MOZ 5Vdc / 24Vdc 2A	Type: MOZ 24Vdc / 24Vdc 2A	Type: MOZ 120Vuc / 24Vdc 2A	Type: MOZ 230Vac / 24Vdc 2A
	Order No. 8632990000	Order No. 8607370000	Order No. 8607740000	Order No. 8607760000
Spare relay, pluggable				
Type	SSS Relais 5V/24V 2ADC	SSS Relais 24V/24V 2Acdc	SSS Relais 60V/24V 2Acdc	SSS Relais 24V/24V 2Acdc
Order No.	4064310000	4061190000	4061200000	4061190000
Note				

MOS / MOZ actuator version 3...33 V DC / 2 A

Universal interface between control and sensor/actuator

- Plug-in cross-connection ZQV 4N
- Interchangeable solid-state relay
- 6.1 mm wide
- Screw or tension clamp connection
- For mounting on TS 35
- 24 V DC actuator version:
Bridgeable, potential-free connection of actuators on output



Load side	
Nominal switching voltage	3...33 V DC
Nominal switching current	2 A
Voltage drop at max. load	≤ 120 mV
Short-circuit-proof/Protective circuit	no/Integrated free-wheel diode
General data	
Ambient temperature (operational)	-25 °C...+50 °C
Storage temperature	-40 °C...+60 °C
Approvals	CE; cULus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4.0 kV
Clearance and creepage distances for control/load side	≥ 5.5 mm
Surge category	III
Pollution severity	2

Dimensions	Screw connection	Tension clamp connection
Clamping range (rating- / min. / max.)	mm ² 2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Length x width x height	mm 93 / 6.1 / 92	94 / 6.1 / 91

Note Cross-connectors and markers - refer to MICROSERIES accessories

Ordering data

Control side		24 V DC ACT
Rated voltage		24 V DC ±20 %
Power rating		140 mW ±10 %
max. input frequency		
Switch-on delay		< 55 µs
Switch-off delay		< 1,2 ms

Ordering data Complete module				
Screw connection	Type	MOS 24Vdc / 24Vdc ACT		
	Order No.	8676250000		
Tension clamp connection	Type	MOZ 24Vdc / 24Vdc ACT		
	Order No.	8676230000		

Ordering data Spare relay, pluggable				
	Type	SSS Relais 24V/24V 2Acd		
	Order No.	4061190000		

Note				

Optos – MICROSERIES

Plug-in solid-state relay

SSS Relay

Switching current 100 mA

SSS Relay

Switching current 2 A

SSS Relay

Switching current 1 A



Technical data

Input	
Nominal control voltage	
Control voltage	min / max
Control current at $U_{IN} = 24\text{ V}$	
Drop-out voltage	
Control circuit resistance	
Output	
Switching voltage	
Switching/continuous current at $U_A > 5\text{ V DC}$	
Conducting-state voltage	
Insulation	
Test voltage between control/switching circuit	
Other data	
Operating temperature range	
Storage temperature range	
Weight	
Approvals	
* Ambient temperature 20 °C	
Wiring diagram	
For further data, see also http://em.tycoelectronics.com	

24 V DC	60 V DC
Control voltage	16 V DC / 30 V DC
Control current at $U_{IN} = 24\text{ V}$	7 mA ± 10 %
Drop-out voltage	10 V DC
Control circuit resistance	approx. 4 kΩ
Switching voltage	3 ... 48 V DC
Switching/continuous current at $U_A > 5\text{ V DC}$	100 mA DC
Conducting-state voltage	< 1 V DC
Test voltage between control/switching circuit	2.5 kV
Operating temperature range	-20 °C ... +60 °C
Storage temperature range	-40 °C ... +70 °C
Weight	3.65 g
Approvals	

24 V DC	60 V DC
Control voltage	18 V DC / 30 V DC
Control current at $U_{IN} = 24\text{ V}$	7 mA ± 10 %
Drop-out voltage	10 V DC
Control circuit resistance	approx. 3,2 kΩ
Switching voltage	3 ... 33 V DC
Switching/continuous current at $U_A > 5\text{ V DC}$	2 A DC
Conducting-state voltage	< 120 mV DC
Test voltage between control/switching circuit	2.5 kV
Operating temperature range	-20 °C ... +60 °C
Storage temperature range	-40 °C ... +70 °C
Weight	3.65 g
Approvals	

24 V DC	60 V DC
Control voltage	18 ... 30 V DC
Control current at $U_{IN} = 24\text{ V}$	3.1 mA ± 10 %
Drop-out voltage	20 V DC
Control circuit resistance	20 kΩ
Switching voltage	24 ... 240 V AC
Switching/continuous current at $U_A > 5\text{ V DC}$	1 A AC
Conducting-state voltage	< 1 V AC
Test voltage between control/switching circuit	2.5 kV
Operating temperature range	-20 °C ... +60 °C
Storage temperature range	-40 °C ... +70 °C
Weight	3.65 g
Approvals	

Ordering data

Nominal control voltage	Order No.
5 V DC	4064320000
24 V DC	4061180000
60 V DC	4061230000

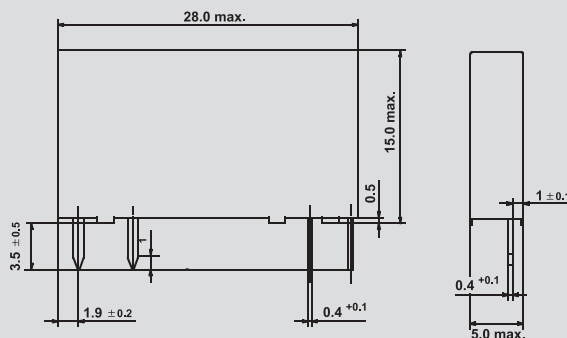
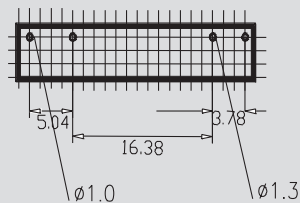
Type	Order No.
SSS Relais 5 V/24 V 0,1 A DC	4064320000
SSS Relais 24 V/24 V 0,1 A DC	4061180000
SSS Relais 60 V/24 V 0,1 A DC	4061230000

Type	Order No.
SSS Relais 5 V / 24 V 2 A DC	4064310000
SSS Relais 24 V/24 V 2 A DC	4061190000
SSS Relais 60 V/24 V 2 A DC	4061200000

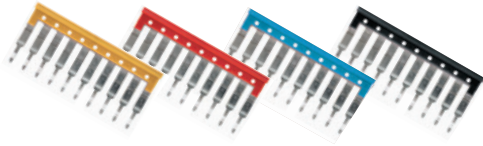
Type	Order No.
SSS Relais 24 V/230 V 1 A AC	4061210000
SSS Relais 60 V/230 V 1 A AC	4061220000

Dimensions

Printing details



Accessories



Plug-in cross-connection

Type	No. of poles	Qty	Order No.
yellow			
ZQV 4N / 2 GE	2	60	1758250000
ZQV 4N / 3 GE	3	60	1762630000
ZQV 4N / 4 GE	4	60	1762620000
ZQV 4N / 10 GE	10	20	1758260000
ZQV 4N / 20	20	20	1909020000
red			
ZQV 4N / 2 RT	2	60	1793950000
ZQV 4N / 3 RT	3	60	1793980000
ZQV 4N / 4 RT	4	60	1794010000
ZQV 4N / 10 RT	10	20	1794040000
ZQV 4N / 20 RT	20	20	1909150000
blue			
ZQV 4N / 2 BL	2	60	1793960000
ZQV 4N / 3 BL	3	60	1793990000
ZQV 4N / 4 BL	4	60	1794020000
ZQV 4N / 10 BL	10	20	1794050000
ZQV 4N / 20 BL	20	20	1909100000
black			
ZQV 4N / 2 SW	2	60	1793970000
ZQV 4N / 3 SW	3	60	1794000000
ZQV 4N / 4 SW	4	60	1794030000
ZQV 4N / 10 SW	10	20	1794060000
ZQV 4N / 20 SW	20	20	1909120000

General data – MICROSERIES

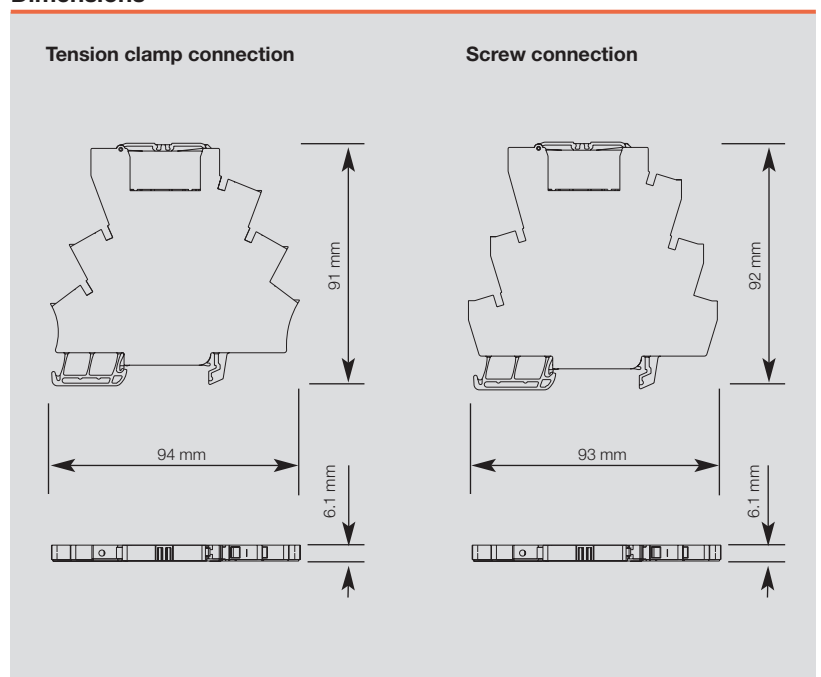
Technical data

Conductor		Tension clamp connection	Screw connection
Solid H07V-U	mm ²	0.5 ... 2.5	0.5 ... 4.0
Stranded H07V-K	mm ²	0.5 ... 2.5	0.5 ... 2.5
"f" with wire end ferrules to DIN 46228-1	mm ²	0.5 ... 1.5	0.5 ... 1.5
"f" with wire end ferrules with plastic collar	mm ²	0.5 ... 1.5	0.5 ... 1.5
Max. clamping range	mm ²	0.13 ... 2.5	0.13 ... 4.0
Plug gauge to IEC 60947-1	size	A 2	A 3
General technical data			
Nominal torque		-	0.6
Continuous current for 2-pole cross-connection	A	10	10
Continuous current for multi-pole cross-connection	A	10	10
Stripping length	mm	10	7
Ingress protection class		IP 20	IP 20
Housing material		Wemid	Wemid
UL 94 flammability rating		V-0	V-0
Nominal current	A	6	6
Nominal voltage	V	250	250

Other accessories

Type		Qty	Order No.
Base only			
MRZ 24VDC 1CO BASIS		10	8826000000
MRS 24VDC 1CO BASIS		10	8826010000
MRZ 120VUC 1CO BASIS		10	8826020000
MRS 120VUC 1CO BASIS		10	8826030000
MRZ 230VAC 1CO BASIS		10	8826040000
MRS 230VAC 1CO BASIS		10	8826050000
Markers			
WS 12/6	12 x 6 mm	200	1061160000
Labels, Lasermark			
LM MT 300 15/6 ge	484 labels / sheet	10	1686360000
Screwdriver			
SD 0,6 x 3,5 x 100		10	9008330000

Dimensions

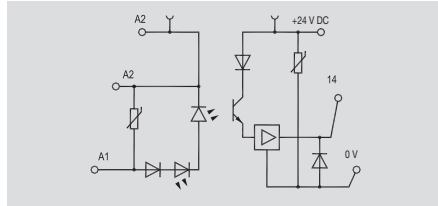


Optokoppler - MICROOPTO

For high switching frequency up to 100kHz

- Only 6 mm width
- Pluggable cross-connection
- Mount onto TS35

12...28 V DC 100 kHz



A special interior circuit in the opto module **MICROOPTO 100 kHz** ensures that rapidly transmitted signals are isolated from one another and that they can be transferred practically without delay. This allows switching frequencies up to 100 kHz to be achieved.

Comprehensive suppressor circuits safeguard the module against conducted transients and voltage spikes

Technical data

Control side

Rated voltage
Power rating
Making voltage
Dropout voltage
max. input frequency
Status indicator
Protective circuit

12 V DC...28 V DC
0,08...0,3 W
> 70 % U_{Nom}
< 12 V
100 kHz
LED green
Varistor, reverse polarity protection

Load side

Solid-state type
Nominal switching voltage
Nominal switching current
Voltage drop at max. load
Leakage current
Short-circuit-proof/Protective circuit
Switch-on delay/Switch-off delay
Continuous current
Pulse loading, max. current/Fuse
Load category

Bipolar transistor
24 V DC
50 mA
≤ 1,5 V
< 20 μ A>
no /Varistor, reverse polarity protection
< 1 μ s> / < 3 μ s
50 mA
0,6 A (20 ms)/
LC A

General data

Ambient temperature (operational)
Storage temperature
UL 94 flammability class
Humidity

-20 °C...+60 °C
-40 °C...+80 °C
V-0
5...95 % RH
 $T_{11} = 40^{\circ}\text{C}$, no condensation
CE; cULus in preparation
EN 50178, IEC 62314, UL508

Approvals

Standards

Insulation coordination (EN 50 178)

Rated voltage
Rated impulse withstand voltage
Clearance and creepage distances for control side - load side
Surge category
Pollution severity

300 V
2,5 kV
> 3 mm
III
2

Dimensions

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Screw connection

2,5 / 0,5 / 4
90 x 6,1 x 98

Note

Ordering data

Connection system

Screw connection

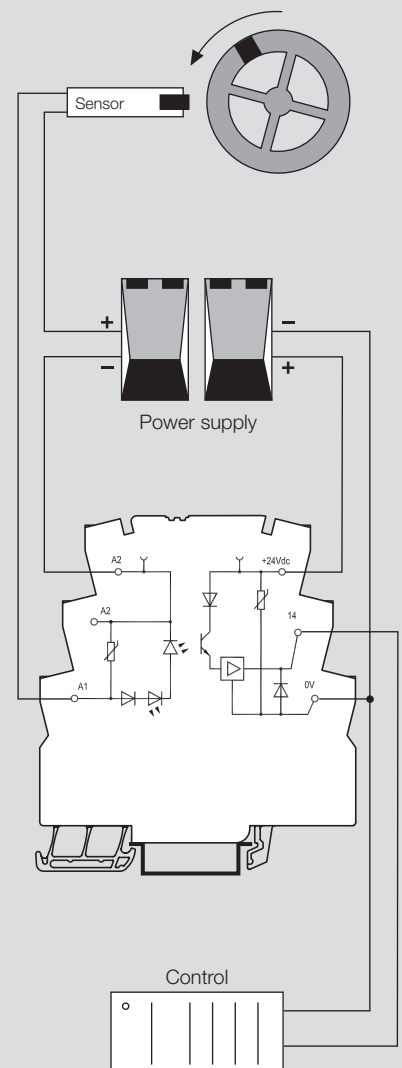
Type	Qty.	Order No.
MOS 12-28VDC 100kHz	1	8937990000

Note

Accessories

Note

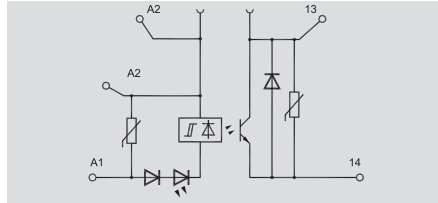
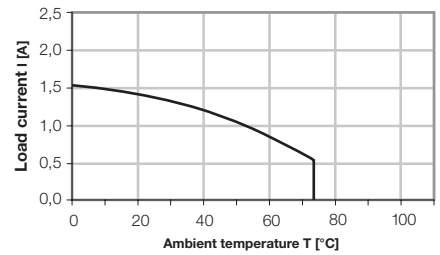
For example rotational speed measurement



For DC loads up to 300 V DC and 1 A

- Only 6 mm width
- Plug-in cross-connection
- Power Boost: 20 A / 20 ms, 5 A / 1 sec

12...300 V DC 1 A



The solid-state relay **MICROOPTO 300 V DC** has been developed as a switching amplifier for high inductive loads up to 300 V DC and 1 A in motor brakes and contactors.

A power boost in the load circuit compensates transient overloads (20 A for 20 ms / 5 A for 1 s) such as making or breaking spikes. Additional protective circuits counter higher overloads.

Technical data

Control side

Rated voltage
Power rating
Making voltage
Dropout voltage
max. input frequency
Status indicator
Protective circuit

24 V DC ±20 %
0.26 W
19.6 V DC
< 12 V
100 Hz
LED green
Varistor, reverse polarity protection

Load side

Solid-state type
Nominal switching voltage
Nominal switching current
Voltage drop at max. load
Leakage current
Short-circuit-proof/Protective circuit
Switch-on delay/Switch-off delay
Continuous current
Pulse loading, max. current/Fuse
Load category

MOS-FET
12...300 V DC
1 A
< 1 V
< 100 µA>
Powerboost 20 A / 20 ms, 5 A / 1 sec / varistor
< 0.2 ms / < 0.3 ms
1 A
27 A (10 ms)/
LC A

General data

Ambient temperature (operational)
Storage temperature
UL 94 flammability class
Humidity

-20 °C...+60 °C
-40 °C...+80 °C
V-0
5...95 % RH
T₁₁ = 40°C, no condensation
CE; cULus in preparation
EN 50178, IEC 62314, UL508

Insulation coordination (EN 50 178)

Rated voltage
Rated impulse withstand voltage
Clearance and creepage distances for control side - load side
Surge category
Pollution severity

300 V
2.5 kV
> 3 mm
III
2

Dimensions

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Screw connection

2.5 / 0.5 / 4
90 x 6.1 x 98

Note

Ordering data

Connection system

Screw connection

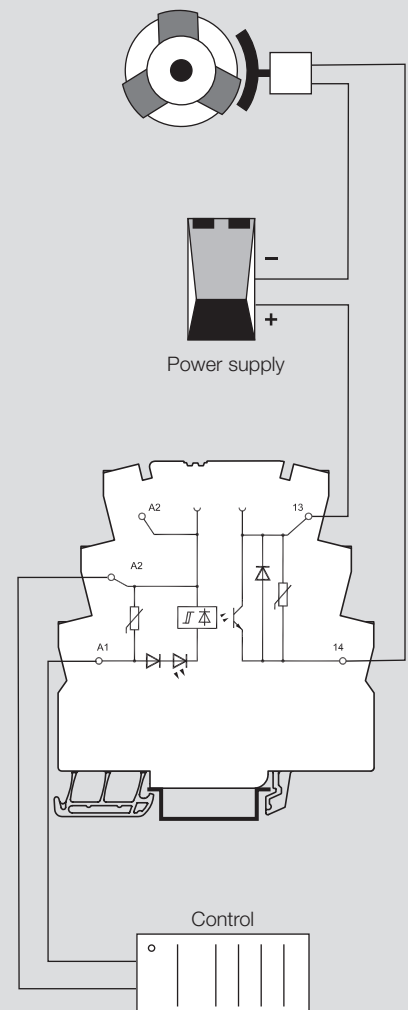
Type	Qty.	Order No.
MOS 24VDC/12-300VDC 1A	1	8937830000

Note

Accessories

Note

Example: motor brake

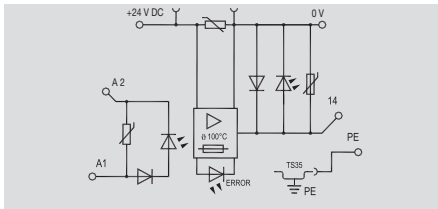
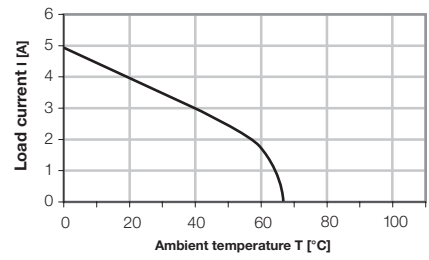


Solid-state relay - MICROOPTO

For direct connection of actuators up to 24 V DC, 2 A

- Only 6 mm width
- Pluggable cross-connection
- PE connection integrated in mounting rail
- Fault indication via LED

8...30 V DC 2 A



The solid-state relay **MICROOPTO ACTOR** has been especially designed as a switching amplifier for actuators up to 24 V DC and 2A with inductive loads such as solenoid valves and contactors. 3-wire actuators can be connected directly to the module.

This is short-circuit proof and protected against application-related transients and spikes by extensive protective circuitry.

Technical data

Control side

Rated voltage
Power rating
Making voltage
Dropout voltage
max. input frequency
Status indicator
Protective circuit

24 V DC $\pm 20\%$
0.12 W
 $> 70\% U_{Nom}$
 < 12 V
100 Hz
Fault indication LED red, status LED green
Varistor, reverse polarity protection

Load side

Solid-state type
Nominal switching voltage
Nominal switching current
Voltage drop at max. load
Leakage current
Short-circuit-proof/Protective circuit
Switch-on delay/Switch-off delay
Continuous current
Pulse loading, max. current/Fuse
Load category

Intelligent POWER MOS-FET
8...30 V DC
2 A
 < 100 mV
 < 100 μ A
yes (12 h) /varistor
 < 0.2 ms $>$ / < 0.5 ms $>$
2 A
/
LC A

General data

Ambient temperature (operational)
Storage temperature
UL 94 flammability class
Humidity

-20 °C... $+60$ °C
 -40 °C... $+80$ °C
V-0
5...95 % RH
 $T_{11} = 40$ °C, no condensation
CE; cULus in preparation
EN 50178, IEC 62314, UL508

Insulation coordination (EN 50 178)

Rated voltage
Rated impulse withstand voltage
Clearance and creepage distances for control side - load side
Surge category
Pollution severity

300 V
2.5 kV
 > 3 mm
III
2

Dimensions

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Screw connection

2.5 / 0.5 / 4
90 x 6.1 x 98

Note

Ordering data

Connection system

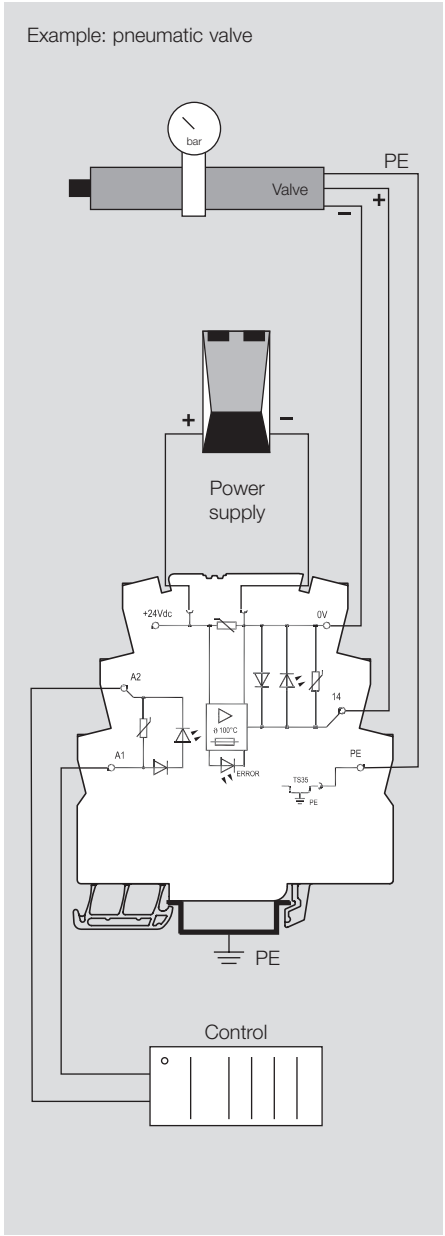
Screw connection

Type	Qty.	Order No.
MOS 24VDC/8-30VDC 2A	1	8937970000

Note

Accessories

Note



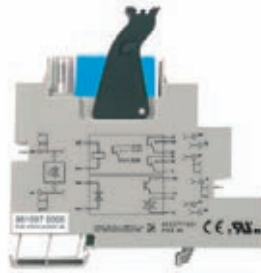
Optos - PLUGSERIES

POS / POZ

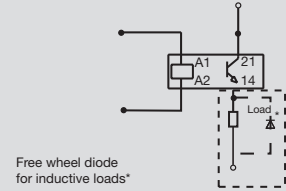
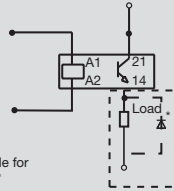
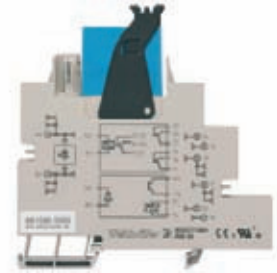
Universal interface between control and sensor

- Plug-in cross-connection ZQV 2.5N
- Interchangeable solid-state relay
- Screw or tension spring connection
- For mounting on TS 35

24 V DC / 24 V DC 2.5 A



24 V DC / 24 V DC 5 A



Technical data

Control side

Rated voltage
Power rating
Nominal auxiliary voltage
Status indicator

Load side

Nominal switching voltage
Nominal switching current
Voltage drop at max. load
Switch-on delay/Switch-off delay
Short-circuit-proof/Protective circuit

General data

Ambient temperature (operational)
Storage temperature
Approvals

Insulation coordination (EN 50 178)

Standards
Rated voltage
Rated impulse withstand voltage
Clearance and creepage distances for control side - load side
Surge category
Pollution severity

15 V DC...30 V DC
250 mW
no
green LED

0...30 V DC
2.5 A
≤ 0,4 V
2ms /18ms
no /Integrated free-wheel diode

-40 °C...+50 °C
-40 °C...+ 50 °C
CE;cURus;

EN 50178
300 V
2.5 kV_{eff}
8 mm
III
2

15 V DC...30 V DC
250 mW
no
green LED

0...30 V DC
5 A
≤ 0,3 V
2ms /18ms
no /Integrated free-wheel diode

-40 °C...+50 °C
-40 °C...+ 50 °C
CE;cURus;

EN 50178
300 V
2.5 kV_{eff}
8 mm
III
2

Dimensions

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Note

Screw connection

2.5 / 0.5 / 2.5
92 x 15.3 x 95

Tension clamp connection

2.5 / 0.5 / 2.5
92 x 15.3 x 87

Screw connection

2.5 / 0.5 / 2.5
92 x 15.3 x 95

Tension clamp connection

2.5 / 0.5 / 2.5
92 x 15.3 x 87

Ordering data

Connection system

Screw connection
Tension clamp connection

Type	Qty.	Order No.
POS 24VDC/24VDC 2A	10	8610840000
POZ 24VDC/24VDC 2A	10	8610920000

Spare SSR 8576340000

Type	Qty.	Order No.
POS 24VDC/24VDC 5A	10	8610900000
POZ 24VDC/24VDC 5A	10	8610970000

Spare SSR 8576350000

Note

Accessories

Note

Cross-connectors and markers - see PLUGSERIES accessories

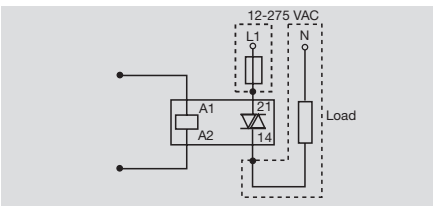
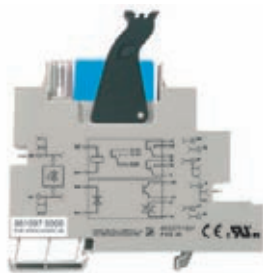
Cross-connectors and markers - see PLUGSERIES accessories

POS / POZ

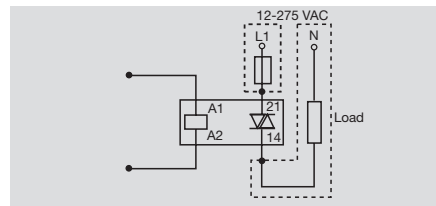
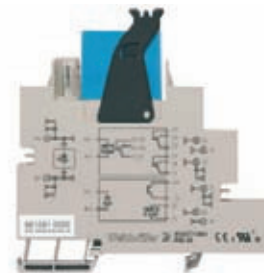
Universal interface between control and sensor

- Plug-in cross-connection ZQV 2.5N
- Interchangeable solid-state relay
- Screw or tension spring connection
- For mounting on TS 35

24 V DC / 230 V AC 2 A



24 V DC / 230 V AC 4 A



Technical data

Control side	
Rated voltage	15 V DC...30 V DC
Power rating	250 mW
Nominal auxiliary voltage	no
Status indicator	green LED
Load side	
Nominal switching voltage	12...275 V AC
Nominal switching current	2 A
Voltage drop at max. load	≤ 1 V
Switch-on delay/Switch-off delay	12ms /20ms
Short-circuit-proof/Protective circuit	no /RC element
General data	
Ambient temperature (operational)	-40 °C...+50 °C
Storage temperature	-40 °C...+ 50 °C
Approvals	CE;cURus;
Insulation coordination (EN 50 178)	
Standards	EN 50178
Rated voltage	300 V
Rated impulse withstand voltage	4,0 kV _{eff}
Clearance and creepage distances for control side - load side	8 mm
Surge category	III
Pollution severity	2
Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm
Note	

Screw connection		Tension clamp connection	
Rated voltage	15 V DC...30 V DC	Rated voltage	15 V DC...30 V DC
Power rating	250 mW	Power rating	250 mW
Nominal auxiliary voltage	no	Nominal auxiliary voltage	no
Status indicator	green LED	Status indicator	green LED
Load side		Load side	
Nominal switching voltage	12...275 V AC	Nominal switching voltage	12...275 V AC
Nominal switching current	2 A	Nominal switching current	3 A (4 A at 20°C)
Voltage drop at max. load	≤ 1 V	Voltage drop at max. load	≤ 1,1 V
Switch-on delay/Switch-off delay	12ms /20ms	Switch-on delay/Switch-off delay	12ms /20ms
Short-circuit-proof/Protective circuit	no /RC element	Short-circuit-proof/Protective circuit	no /RC element
General data		General data	
Ambient temperature (operational)	-40 °C...+50 °C	Ambient temperature (operational)	-40 °C...+50 °C
Storage temperature	-40 °C...+ 50 °C	Storage temperature	-40 °C...+ 50 °C
Approvals	CE;cURus;	Approvals	CE;cURus;
Insulation coordination (EN 50 178)		Insulation coordination (EN 50 178)	
Standards	EN 50178	Standards	EN 50178
Rated voltage	300 V	Rated voltage	300 V
Rated impulse withstand voltage	4,0 kV _{eff}	Rated impulse withstand voltage	4,0 kV _{eff}
Clearance and creepage distances for control side - load side	8 mm	Clearance and creepage distances for control side - load side	8 mm
Surge category	III	Surge category	III
Pollution severity	2	Pollution severity	2
Dimensions		Dimensions	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note		Note	

Screw connection		Tension clamp connection	
Rated voltage	15 V DC...30 V DC	Rated voltage	15 V DC...30 V DC
Power rating	250 mW	Power rating	250 mW
Nominal auxiliary voltage	no	Nominal auxiliary voltage	no
Status indicator	green LED	Status indicator	green LED
Load side		Load side	
Nominal switching voltage	12...275 V AC	Nominal switching voltage	12...275 V AC
Nominal switching current	3 A (4 A at 20°C)	Nominal switching current	3 A (4 A at 20°C)
Voltage drop at max. load	≤ 1,1 V	Voltage drop at max. load	≤ 1,1 V
Switch-on delay/Switch-off delay	12ms /20ms	Switch-on delay/Switch-off delay	12ms /20ms
Short-circuit-proof/Protective circuit	no /RC element	Short-circuit-proof/Protective circuit	no /RC element
General data		General data	
Ambient temperature (operational)	-40 °C...+50 °C	Ambient temperature (operational)	-40 °C...+50 °C
Storage temperature	-40 °C...+ 50 °C	Storage temperature	-40 °C...+ 50 °C
Approvals	CE;cURus;	Approvals	CE;cURus;
Insulation coordination (EN 50 178)		Insulation coordination (EN 50 178)	
Standards	EN 50178	Standards	EN 50178
Rated voltage	300 V	Rated voltage	300 V
Rated impulse withstand voltage	4,0 kV _{eff}	Rated impulse withstand voltage	4,0 kV _{eff}
Clearance and creepage distances for control side - load side	8 mm	Clearance and creepage distances for control side - load side	8 mm
Surge category	III	Surge category	III
Pollution severity	2	Pollution severity	2
Dimensions		Dimensions	
Clamping range (rating- / min. / max.)	mm ²	Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm	Length x width x height	mm
Note		Note	

Ordering data

Connection system	
	Screw connection
	Tension clamp connection
Note	

Type	Qty.	Order No.
POS 24VDC/230VAC 2A	10	8610860000
POZ 24VDC/230VAC 2A	10	8610930000
Note		
Spare SSR	8576370000	

Type	Qty.	Order No.
POS 24VDC/230VAC 4A	10	8610910000
POZ 24VDC/230VAC 4A	10	8610980000
Note		
Spare SSR	8576360000	

Accessories

Note

Cross-connectors and markers - see PLUGSERIES accessories

Cross-connectors and markers - see PLUGSERIES accessories
