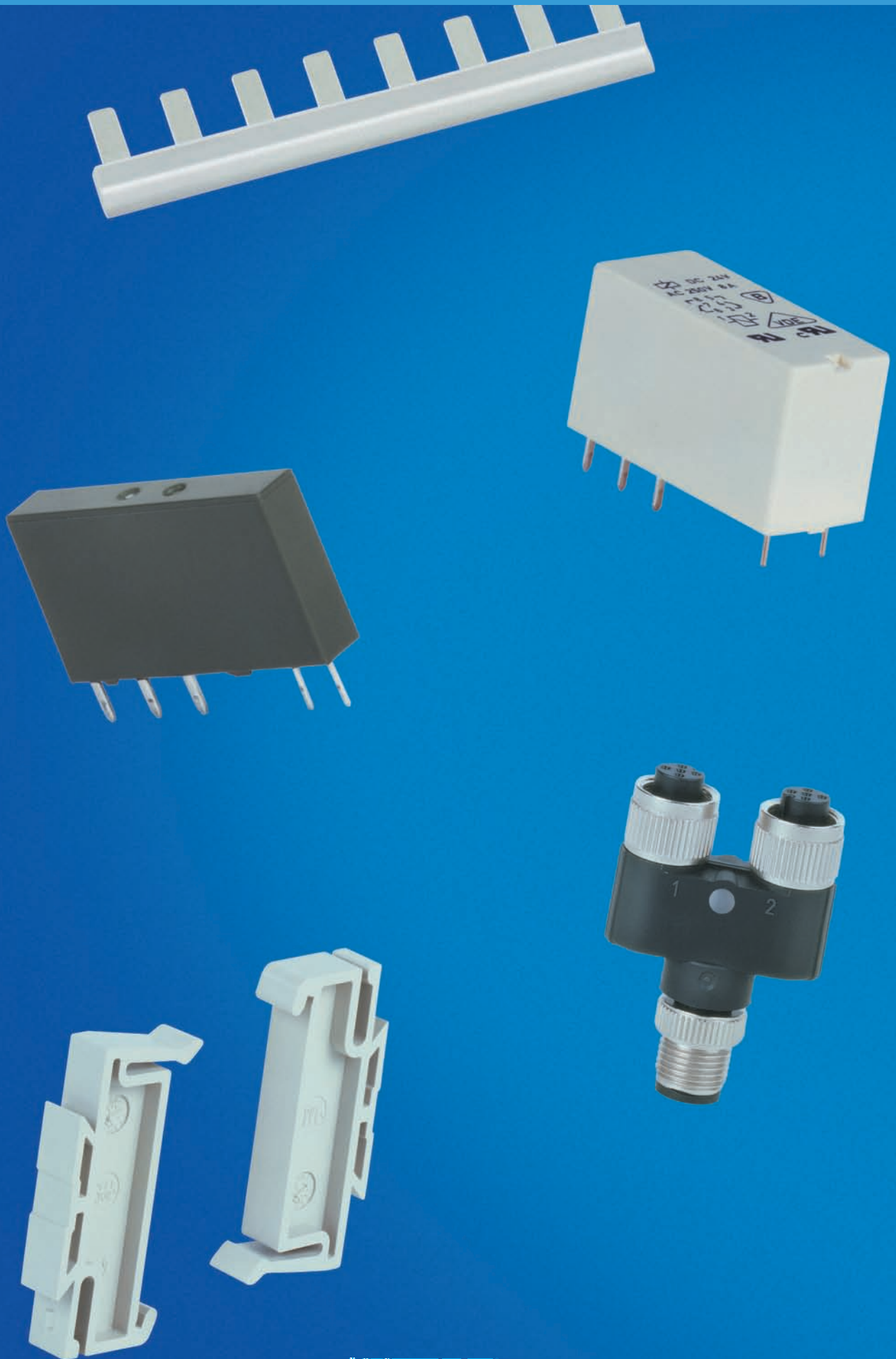


7. Accessories

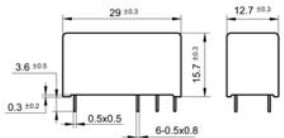


Accessories - Relay

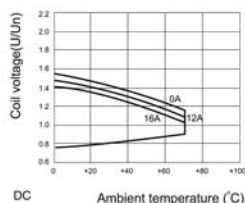
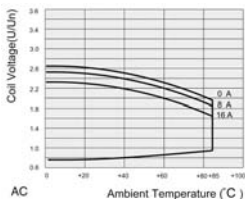
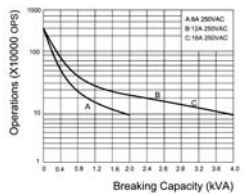
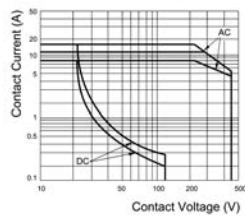
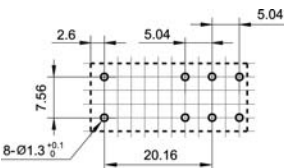
Replacement relay, 1 directional contact, pluggable relay
 AC 400V/DC 300V, 16A, 4000VA
 Contact material: AgNi, AgNi + +5 µm HV



Dimensions



Limit curve



Description	Part-No.	Type	PU	
Relay with AgNi				
Rated voltage	DC 12 V	770100	RE1W-0100 DC12	10
	DC 24 V	770101	RE1W-0101 DC24	10
	DC 110 V	770106	RE1W-0106 DC120	10
	AC 12 V	770110	RE1W-0110 AC12	10
	AC 24 V	770111	RE1W-0111 AC24	10
	AC 115 V	770116	RE1W-0116 AC120	10
	AC 230 V	770117	RE1W-0117 AC230	10
Relay with AgNi + 5 µm HV				
Rated voltage	DC 12 V	770120	RE1WHV-0120 DC12	10
	DC 24 V	770121	RE1WHV-0121 DC24	10
	DC 110 V	770126	RE1WHV-0126 DC120	10
	AC 12 V	770130	RE1WHV-0130 AC12	10
	AC 24 V	770131	RE1WHV-0131 AC24	10
	AC 115 V	770136	RE1WHV-0136 AC120	10
	AC 230 V	770137	RE1WHV-0137 AC230	10

Input

Rated voltage	AC:12...240V; DC: 12...110V
Input voltage	AC: ±30%, DC: ±20%
Rated current	- A
Power consumption	AC: 0.75VA, DC: 0.4 W
Interrupting voltage	AC: ≥0.15 Un, DC: >0.1 Un
Input characteristic impedance	-
Status indication	-

Output

Contact type	1 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC 400V, DC 300V
Min. switching current	AgNi: AC/DC 5mA; AgNi+ 5µm HV: AC/DC 2mA
Max. switching current	AC1: 16A / 250VAC, DC1: 16A / 24VDC
Switching capacity DC 13	24V: 2A, 115V: 300mA, 230V: 150mA
Switching capacity AC 15	3.3A
Inrush current	30A (4ms)
Max. switching capacity	4000 VA
Resistor	< 100 mΩ
Contact material	AgNi / AgNi+5µm HV
Switching frequency	AC1: 600 cycles/hour, without load 72,000 cycles/hour
Mechanical service life	>3 × 10 ⁷ operations
Switch-on delay	15 ms
Switch-off delay	8 ms
Clearance/creep. dist. (contol/load side)	> 10mm

Rated insulation voltage (EN 50178)	AC 400V (C 250/ B 400)
Overvoltage category	III
Pollution degree	3

General

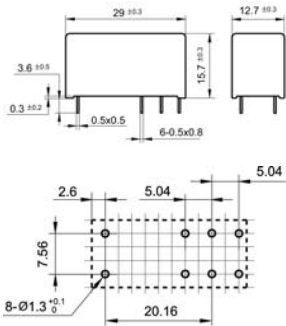
Protection class	RTII - flux-tight
Shock resistance	10 g
Vibration resistance	10g, 10...150Hz
Insulation voltage input/output	5.0 kV _{eff}
Safe isolation	yes
Operation temperature range	-40 – 70 °C
Storage temperature range	-40 – 85 °C
Dimensions (w x h x d)	29.0 × 15.7 × 12.7 mm
Weight (kg/piece)	0.014
Approvals	UL, CSA, VDE
Termination	plug-in

Accessories - Relay

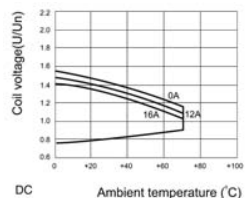
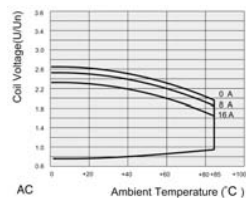
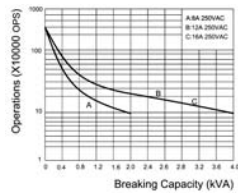
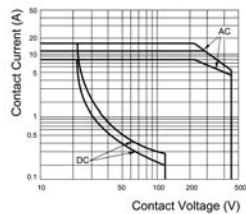
Replacement relay, 2 directional contact, pluggable relay
AC 400V/DC 300V, 8A, 2000VA
Contact material: AgNi, AgNi + 5 µm HV



Dimensions



Limit curve



Description	Part-No.	Type	PU	
Relay with AgNi				
Rated voltage	DC 12 V	770918	RE2W-0918 DC12	10
	DC 24 V	770920	RE2W-0920 DC24	10
	DC 110 V	770922	RE2W-0922 DC120	10
	AC 12 V	770926	RE2W-0926 AC12	10
	AC 24 V	770928	RE2W-0928 AC24	10
	AC 120 V	770930	RE2W-0930 AC120	10
	AC 230 V	770924	RE2W-0924 AC230	10
Relay with AgNi + 5 µm HV				
Rated voltage	DC 12 V	770919	RE2WHV-0919 DC12	10
	DC 24 V	770921	RE2WHV-0921 DC24	10
	DC 110 V	770923	RE2WHV-0923 DC120	10
	AC 12 V	770927	RE2WHV-0927 AC12	10
	AC 24 V	770929	RE2WHV-0929 AC24	10
	AC 120 V	770931	RE2WHV-0931 AC120	10
	AC 230 V	770925	RE2WHV-0925 AC230	10
Input				
Rated voltage	AC:12...240V; DC: 12...110V			
Input voltage	AC: ±30%, DC: ±20%			
Rated current	- A			
Power consumption	AC: 0.75VA, DC: 0.4 W			
Interrupting voltage	AC: ≥0.15 Un, DC: >0.1 Un			
Input characteristic impedance	-			
Status indication	-			
Output				
Contact type	2 change over contact			
Min. switching voltage	AC/DC 5 V			
Max. switching voltage	AC 400V, DC 300V			
Min. switching current	AgNi: AC/DC 5mA; AgNi+ 5µm HV: AC/DC 2mA			
Max. switching current	AC1: 8A / 250VAC, DC1: 8A / 24VDC			
Switching capacity DC 13	24V: 2A, 115V: 300mA, 230V: 150mA			
Switching capacity AC 15	3.3A			
Inrush current	15A (4ms)			
Max. switching capacity	2000 VA			
Resistor	< 100 mΩ			
Contact material	AgNi / AgNi+5µm HV			
Switching frequency	AC1: 600 cycles/hour, without load 72,000 cycles/hour			
Mechanical service life	>3 × 10 ⁷ operations			
Switch-on delay	15 ms			
Switch-off delay	8 ms			
Clearance/creep. dist. (contol/load side)	> 10mm			
Rated insulation voltage (EN 50178)	AC 400V (C 250/ B 400)			
Overtoltage category	III			
Pollution degree	3			
General				
Protection class	RTII - flux-tight			
Shock resistance	10 g			
Vibration resistance	10g, 10...150Hz			
Insulation voltage input/output	5.0 kV _{eff}			
Safe isolation	yes			
Operation temperature range	-40 – 70 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w x h x d)	29.0 x 15.7 x 12.7 mm			
Weight (kg/piece)	0.014			
Approvals	UL, CSA, VDE			
Termination	plug-in			

Accessories - Relay

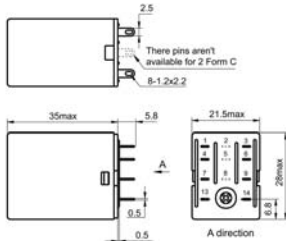
Replacement relay, 2 directional contact, pluggable relay

AC/DC 250V, 7A, 1750VA

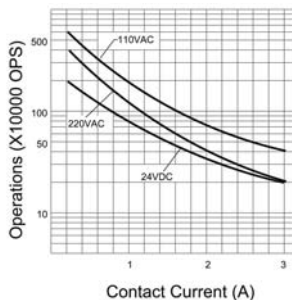
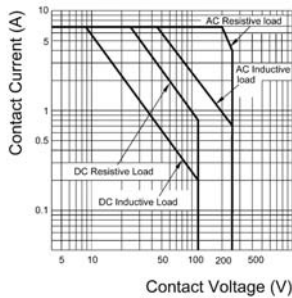
Contact material: AgNi, AgNi + +5 µm HV



Dimensions



Limit curve



Description	Part-No.	Type	PU	
Relay with AgNi				
Rated voltage	DC 12 V	770500	RE2W-0500 DC12	10
	DC 24 V	770501	RE2W-0501 DC24	10
	DC 110 V	770506	RE2W-0506 DC120	10
	AC 12 V	770510	RE2W-0510 AC12	10
	AC 24 V	770511	RE2W-0511 AC24	10
	AC 115 V	770516	RE2W-0516 AC120	10
	AC 230 V	770517	RE2W-0517 AC230	10
Relay with AgNi + 5 µm HV				
Rated voltage	DC 12 V	770520	RE2WHV-0520 DC12	10
	DC 24 V	770521	RE2WHV-0521 DC24	10
	DC 110 V	770526	RE2WHV-0526 DC120	10
	AC 12 V	770530	RE2WHV-0530 AC12	10
	AC 24 V	770531	RE2WHV-0531 AC24	10
	AC 115 V	770536	RE2WHV-0536 AC120	10
	AC 230 V	770537	RE2WHV-0537 AC230	10

Input

Rated voltage	AC:12...240V; DC: 12...110V
Input voltage	AC: ±20%, DC: ±10%
Rated current	- A
Power consumption	AC: 1.2VA, DC: 0.9W
Interrupting voltage	AC: ≥0.2 Un, DC: >0.1 Un
Input characteristic impedance	-
Status indication	-

Output

Contact type	2 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC/DC 250 V
Min. switching current	AgNi: AC/DC 5mA; AgNi+ 5µm HV: AC/DC 2mA
Max. switching current	AC1: 7A / 250VAC, DC1: 7A / 30VDC
Switching capacity DC 13	24V: 2A, 115V: 300mA, 230V: 150mA
Switching capacity AC 15	3.3A
Inrush current	20A (4ms)
Max. switching capacity	1750 VA
Resistor	< 100 mΩ
Contact material	AgNi / AgNi+5µm HV
Switching frequency	AC1: 1,200 cycles/hour, without load 18,000 cycles/hour
Mechanical service life	>2 × 10 ⁷ operations
Switch-on delay	25 ms
Switch-off delay	25 ms
Clearance/creep. dist. (contol/load side)	Clearance distance: > 2.5 mm; creepage distance: > 4mm
Rated insulation voltage (EN 50178)	AC 250V (C 250)
Overvoltage category	III
Pollution degree	3
General	
Protection class	RTI - dust proof
Shock resistance	10 g
Vibration resistance	5g, 10...55Hz
Insulation voltage input/output	1.5 kV _{eff}
Safe isolation	-
Operation temperature range	-40 – 70 °C
Storage temperature range	-40 – 85 °C
Dimensions (w x h x d)	28.0 × 21.2 × 35.0 mm
Weight (kg/piece)	0.037
Approvals	cULus, TÜV, CQC
Termination	plug-in

Accessories - Relay

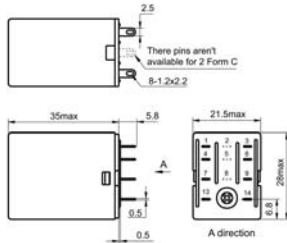
Replacement relay, 3 directional contact, pluggable relay

AC/DC 250V, 7A, 1750VA

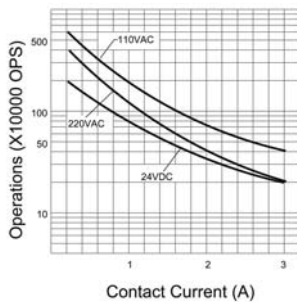
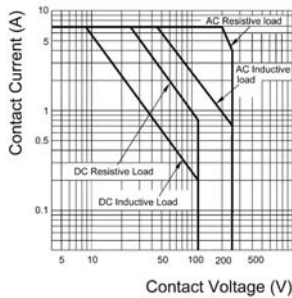
Contact material: AgNi, AgNi + +5 µm HV



Dimensions



Limit curve



Description	Part-No.	Type	PU	
Relay with AgNi				
Rated voltage	DC 12 V	770300	RE3W-0300 DC12	10
	DC 24 V	770301	RE3W-0301 DC24	10
	DC 110 V	770306	RE3W-0306 DC120	10
	AC 12 V	770310	RE3W-0310 AC12	10
	AC 24 V	770311	RE3W-0311 AC24	10
	AC 115 V	770316	RE3W-0316 AC120	10
	AC 230 V	770317	RE3W-0317 AC230	10
Relay with AgNi + 5 µm HV				
Rated voltage	DC 12 V	770320	RE3WHV-0320 DC12	10
	DC 24 V	770321	RE3WHV-0321 DC24	10
	DC 110 V	770326	RE3WHV-0326 DC120	10
	AC 12 V	770330	RE3WHV-0330 AC12	10
	AC 24 V	770331	RE3WHV-0331 AC24	10
	AC 115 V	770336	RE3WHV-0336 AC120	10
	AC 230 V	770337	RE3WHV-0337 AC230	10
Input				
Rated voltage	AC:12...240V; DC: 12...110V			
Input voltage	AC: ±20%, DC: ±10%			
Rated current	- A			
Power consumption	AC: 1.2VA, DC: 0.9W			
Interrupting voltage	AC: ≥0.2 Un, DC: >0.1 Un			
Input characteristic impedance	-			
Status indication	-			
Output				
Contact type	3 change over contact			
Min. switching voltage	AC/DC 5 V			
Max. switching voltage	AC/DC 250 V			
Min. switching current	AgNi: AC/DC 5mA; AgNi+ 5µm HV: AC/DC 2mA			
Max. switching current	AC1: 7A / 250VAC, DC1: 7A / 24VDC			
Switching capacity DC 13	24V: 2A, 115V: 300mA, 230V: 150mA			
Switching capacity AC 15	3.3A			
Inrush current	14A (4ms)			
Max. switching capacity	1750 VA			
Resistor	< 100 mΩ			
Contact material	AgNi / AgNi+5µm HV			
Switching frequency	AC1: 1,200 cycles/hour, without load 18,000 cycles/hour			
Mechanical service life	>2 × 10 ⁷ operations			
Switch-on delay	25 ms			
Switch-off delay	25 ms			
Clearance/creep. dist. (contol/load side)	Clearance distance: > 2.5 mm; creepage distance: > 4mm			
Rated insulation voltage (EN 50178)	AC 250V (C 250)			
Overvoltage category	III			
Pollution degree	3			
General				
Protection class	RT1 - dust proof			
Shock resistance	10 g			
Vibration resistance	5g, 10...55Hz			
Insulation voltage input/output	1.5 kV _{eff}			
Safe isolation	-			
Operation temperature range	-40 – 70 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d)	28.0 × 21.2 × 35.0 mm			
Weight (kg/piece)	0.037			
Approvals	cULus, TÜV, CQC			
Termination	plug-in			

Accessories - Relay

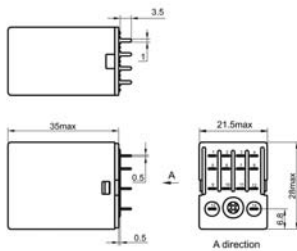
Replacement relay, 4 directional contact, pluggable relay

AC/DC 250V, 5A, 1250VA

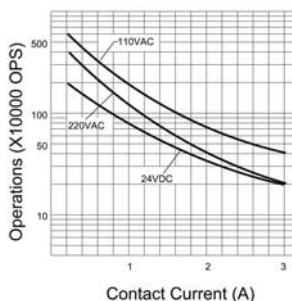
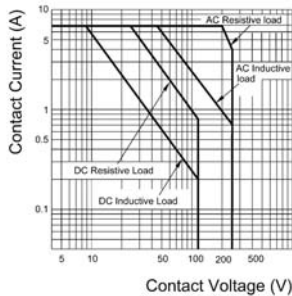
Contact material: AgNi, AgNi + +5 µm HV



Dimensions



Limit curve



Description	Part-No.	Type	PU	
Relay with AgNi				
Rated voltage	DC 12 V	770400	RE4W-0400 DC12	10
	DC 24 V	770401	RE4W-0401 DC24	10
	DC 110 V	770406	RE4W-0406 DC120	10
	AC 12 V	770410	RE4W-0410 AC12	10
	AC 24 V	770411	RE4W-0411 AC24	10
	AC 115 V	770416	RE4W-0416 AC120	10
	AC 230 V	770417	RE4W-0417 AC230	10
Relay with AgNi + 5 µm HV				
Rated voltage	DC 12 V	770420	RE4WHV-0420 DC12	10
	DC 24 V	770421	RE4WHV-0421 DC24	10
	DC 110 V	770426	RE4WHV-0426 DC120	10
	AC 12 V	770430	RE4WHV-0430 AC12	10
	AC 24 V	770431	RE4WHV-0431 AC24	10
	AC 120 V	770436	RE4WHV-0436 AC120	10
	AC 230 V	770437	RE4WHV-0437 AC230	10

Input

Rated voltage	AC:12...240V; DC: 12...110V
Input voltage	AC: ±20%, DC: ±10%
Rated current	- A
Power consumption	AC: 1.2VA, DC: 0.9W
Interrupting voltage	AC: ≥0.2 Un, DC: >0.1 Un
Input characteristic impedance	-
Status indication	-

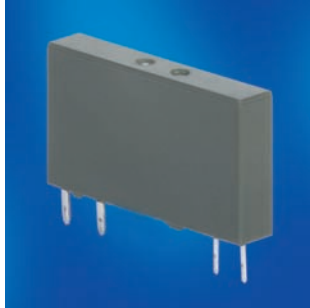
Output

Contact type	4 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC/DC 250 V
Min. switching current	AgNi: AC/DC 5mA; AgNi+ 5µm HV: AC/DC 2mA
Max. switching current	AC1: 5A / 250VAC, DC1: 5A / 24VDC
Switching capacity DC 13	24V: 2A, 115V: 300mA, 230V: 150mA
Switching capacity AC 15	3.3A
Inrush current	10A (4ms)
Max. switching capacity	1250 VA
Resistor	< 100 mΩ
Contact material	AgNi / AgNi+5µm HV
Switching frequency	AC1: 1,200 cycles/hour, without load 18,000 cycles/hour
Mechanical service life	>2 × 10 ⁷ operations
Switch-on delay	25 ms
Switch-off delay	25 ms
Clearance/creep. dist. (contol/load side)	Clearance distance: > 1.6 mm; creepage distance: > 3.2mm

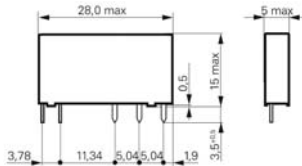
Rated insulation voltage (EN 50178)	AC 250V (B 250)
Overvoltage category	III
Pollution degree	3
General	
Protection class	RTI - dust proof
Shock resistance	10 g
Vibration resistance	5g, 10...55Hz
Insulation voltage input/output	1.5 kV _{eff}
Safe isolation	-
Operation temperature range	-40 – 70 °C
Storage temperature range	-40 – 85 °C
Dimensions (w x h x d)	28.0 × 21.2 × 35.0 mm
Weight (kg/piece)	0.037
Approvals	cULus, TÜV, CQC
Termination	plug-in

Accessories - Relay

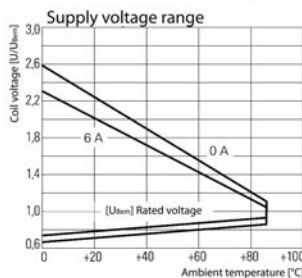
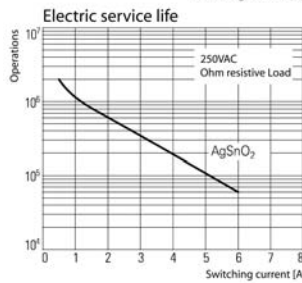
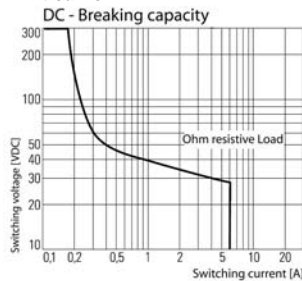
Replacement relay, 1 CO contact
 AC/DC 250V, 6A, 1500VA
 Contact material: AgSnO₂, AgSnO₂+5μm HV



Dimensions



Limit curve



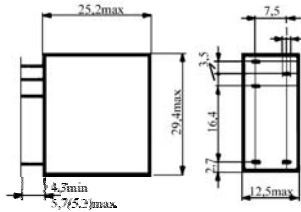
Description	Part-No.	Type	PU	
Relay with AgSnO₂				
Rated voltage	DC 12 V	768001	Relais-SNR 12V 1W	20
	DC 24 V	768002	Relais-SNR 24V 1W	20
	DC 60 V	768003	Relais-SNR 60V 1W	20
Relay with AgSnO₂ + 5 μm HV				
Rated voltage	DC 12 V	768005	Relais-SNR 12V 1W HTV	20
	DC 24 V	768006	Relais-SNR 24V 1W HTV	20
	DC 60 V	768007	Relais-SNR 60V 1W HTV	20
Input				
Rated voltage	DC: 12...60V			
Input voltage	DC: ±30%			
Rated current	- A			
Power consumption	DC: 170mW			
Interrupting voltage	DC: >0.1 Un			
Input characteristic impedance	-			
Status indication	-			
Output				
Contact type	1 change over contact			
Min. switching voltage	AgSnO ₂ : AC/DC 17V; AgSnO ₂ +5μm HV: AC/DC 1V			
Max. switching voltage	AC/DC 250 V			
Min. switching current	AgSnO ₂ : AC/DC 5mA; AgSnO ₂ + 5μm HV: AC/DC 1mA			
Max. switching current	6A			
Switching capacity DC 13	24V: 1A, 115V: 200mA, 230V: 100mA			
Switching capacity AC 15	3A			
Inrush current	10A (4ms)			
Max. switching capacity	1500 VA			
Resistor	AgSnO ₂ : < 100mΩ; AgSnO ₂ +5μm HV: < 30mΩ			
Contact material	AgSnO ₂ / AgSnO ₂ +5μm HV			
Switching frequency	with load: 6 cycles/minute, without load 1,200 cycles/minute			
Mechanical service life	>5 × 10 ⁶ operations			
Switch-on delay	5 ms			
Switch-off delay	2.5 ms			
Clearance/creep. dist. (contol/load side)	Clearance distance: > 6 mm; creepage distance: > 8mm			
Rated insulation voltage (EN 50178)	AC 250 V			
Overvoltage category	III			
Pollution degree	3			
General				
Protection class	RTIII - wash-tight			
Shock resistance	5 g			
Vibration resistance	6g, 10...150Hz			
Insulation voltage input/output	4.0 kV _{eff}			
Safe isolation	yes			
Operation temperature range	-25 – 60 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d)	5.0 × 28.0 × 15.0 mm			
Weight (kg/piece)	0.006			
Approvals	VDE, cULus			
Termination	plug-in			

Accessories - Relay

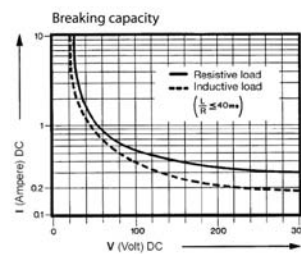
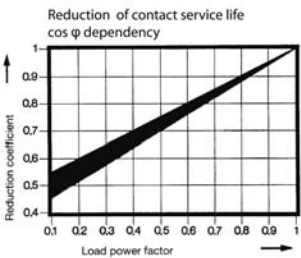
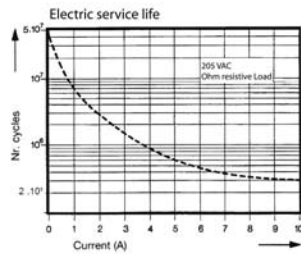
Replacement relay, 1 CO contact
 AC/DC 250V, 10A, 2500VA
 Contact material: AgSnO₂



Dimensions



Limit curve



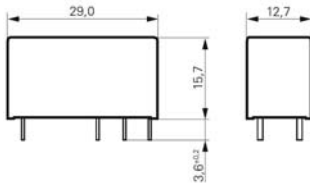
Description	Part-No.	Type	PU
Relay with AgSnO₂			
Rated voltage	DC 24 V	712013	LKSR-2013 DC 24 V
			25
Input			
Rated voltage		DC 24V	
Input voltage		DC: 19.7V – 35.7V	
Rated current		– A	
Power consumption		DC: 0.6W	
Interrupting voltage		DC: >0.1 Un	
Input characteristic impedance		–	
Status indication		–	
Output			
Contact type		1 change over contact	
Min. switching voltage		AC/DC 17 V	
Max. switching voltage		AC/DC 250 V	
Min. switching current		AC/DC 5mA	
Max. switching current		10A	
Switching capacity DC 13		24V: 1A, 115V: 200mA, 230V: 100mA	
Switching capacity AC 15		3A	
Inrush current		15A (4ms)	
Max. switching capacity		2500 VA	
Resistor		–	
Contact material		AgSnO ₂	
Switching frequency		–	
Mechanical service life		>3 × 10 ⁷ operations	
Switch-on delay		10 ms	
Switch-off delay		5 ms	
Clearance/creep. dist. (contol/load side)		Clearance distance: > 8 mm; creepage distance: > 8mm	
Rated insulation voltage (EN 50178)		AC 250 V	
Overvoltage category		III	
Pollution degree		3	
General			
Protection class		RTIII - wash-tight	
Shock resistance		5 g	
Vibration resistance		6g, 10...150Hz	
Insulation voltage input/output		4.0 kV _{eff}	
Safe isolation		yes	
Operation temperature range		-25 – 60 °C	
Storage temperature range		-40 – 80 °C	
Dimensions (w x h x d)		12.5 × 29.4 × 25.5 mm	
Weight (kg/piece)		0.015	
Approvals		VDE; cULus	
Termination		plug-in	

Accessories - Relay

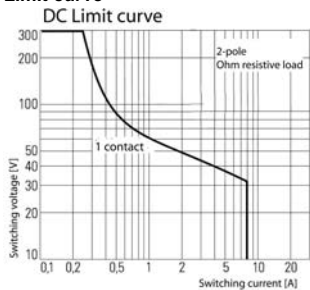
Backup relay, 2 CO contact AC/DC 250V, 8A, 2000VA Kontaktmaterial: AgNi



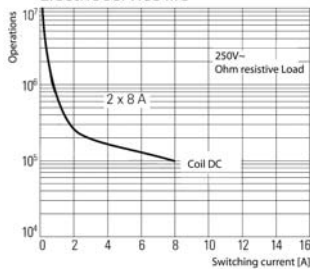
Dimensions



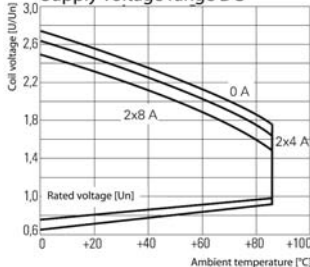
Limit curve



Electric service life



Supply voltage range DC



Description	Part-No.	Type	PU
Relay with AgNi			
Rated voltage	DC 24 V	712014	LKSR-2014 DC 24 V
Input			
Rated voltage	DC 24V		
Input voltage	DC: ±30%		
Rated current	– A		
Power consumption	DC: 0.4W		
Interrupting voltage	DC: >0.1 Un		
Input characteristic impedance	–		
Status indication	–		
Output			
Contact type	2 change over contact		
Min. switching voltage	AC/DC 17 V		
Max. switching voltage	AC/DC 250 V		
Min. switching current	AC/DC 5mA		
Max. switching current	8A		
Switching capacity DC 13	24V: 1A, 115V: 200mA, 230V: 100mA		
Switching capacity AC 15	3A		
Inrush current	15A (4ms)		
Max. switching capacity	2000 VA		
Resistor	–		
Contact material	AgNi		
Switching frequency	–		
Mechanical service life	>3 × 10 ⁷ operations		
Switch-on delay	10 ms		
Switch-off delay	5 ms		
Clearance/creep. dist. (contol/load side)	Clearance distance: > 6 mm; creepage distance: > 8mm		
Rated insulation voltage (EN 50178)	AC 250 V		
Overvoltage category	III		
Pollution degree	3		
General			
Protection class	RTIII - wash-tight		
Shock resistance	5 g		
Vibration resistance	6g, 10...150Hz		
Insulation voltage input/output	4.0 kV _{eff}		
Safe isolation	yes		
Operation temperature range	-25 – 60 °C		
Storage temperature range	-40 – 80 °C		
Dimensions (w x h x d)	12.5 x 29.4 x 25.5 mm		
Weight (kg/piece)	0.015		
Approvals	VDE; cULus		
Termination	plug-in		

Accessories - Relay

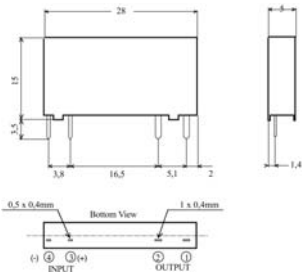
Solid State Relay, 1 N/O contact

AC: 275V; 0.75A

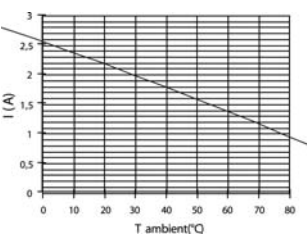
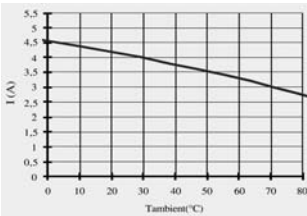
DC: max. 48V; max. 3A



Dimensions



Limit curve



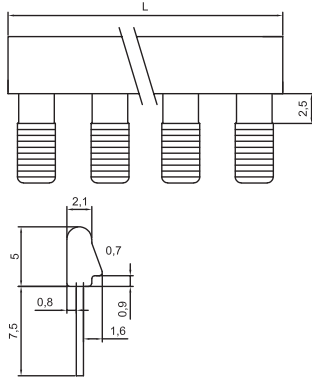
Description	Part-No.	Type	PU
DC Output			
Rated voltage	DC 12 V	768009	SSR-DC12V/DC30V, 3A
	DC 24 V	768011	SSR-DC24V/DC48V, 0,1A
AC Output			
Rated voltage	DC 12 V	768010	SSR-DC12V/DC275V, 0,75A
			20
Input			
	768009	768011	768010
Rated voltage	DC 12 V	DC 24 V	DC 12 V
Input voltage	7 – 20V	16 – 30 V	7 – 20V
Rated current	0,01 A	0,007 A	0,01 A
Power consumption	0.12 W	0.17 W	0.12 W
Interrupting voltage	8.3 V	10 V	1 V
Input characteristic impedance	1070 Ω	4000 Ω	1100 Ω
Status indication	–		
Output			
Contact type	Transistor, N/O contact		Triac, N/O contact
Min. switching voltage	DC 0.5 V	DC 5 V	AC 12 V
Max. switching voltage	DC 32 V	DC 48 V	AC 275 V
Min. switching current	DC 1mA	1 mA	AC 5mA
Max. switching current	DC 4 A (Derating)	100 mA	AC 2 A (Derating)
Switching capacity DC 13	4A	–	–
Switching capacity AC 15	–	–	2A
Inrush current	10A (4ms)	–	10A (4ms)
Max. switching capacity	– VA	–	1000 VA
Switching capacity	100 W	4.5 W	–
Resistor	< 120 mΩ	< 10 Ω	–
Contact material	–		
Switching frequency	100Hz	< 100Hz	50Hz
Mechanical service life	–		
Switch-on delay	50µs	5 ms	0.1 ms
Switch-off delay	600µs	–	10 ms
Clearance/creep. dist. (contol/load side)	–		
Rated insulation voltage (EN 50178)	–		
Overvoltage category	III		
Pollution degree	3		
General			
IP rating	IP 40		
Protection class	RTIII - wash-tight		
Shock resistance	– g		
Vibration resistance	–		
Insulation voltage input/output	2.5 kV _{eff}	–	4.0 kV _{eff}
Safe isolation	yes		
Operation temperature range	–20 – 60 °C		
Storage temperature range	–25 – 80 °C	–40 – 70 °C	–40 – 100 °C
Dimensions (w x h x d)	5.0 x 28.0 x 15.0 mm		
Weight (kg/piece)	0.008	0.004	0.008
Approvals	UL submitted	cUL, UL	UL submitted
Termination	plug-in		

Accessories - Jumper combs

extrusion-coated bridge combs: 2 / 3 / 4 / 8 / 16 pole
for micro compact enclosure 6.2 mm (top wiring)
Colours: red, white, blue



Dimensions



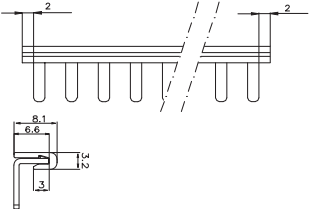
Description	Part-No.	Type	PU		
2-pole					
Colour	red	762802	BK 7-2802	10	
	white	762803	BK 7-2803	10	
	blue	762804	BK 7-2803	10	
3-pole					
Colour	red	762805	BK 7-2805	10	
	white	762806	BK 7-2806	10	
	blue	762807	BK 7-2807	10	
4-pole					
Colour	red	762812	BK 7-2812	10	
	white	762813	BK 7-2813	10	
	blue	762814	BK 7-2814	10	
8-pole					
Colour	red	762822	BK 7-2822	10	
	white	762823	BK 7-2823	10	
	blue	762824	BK 7-2824	10	
16-pole					
Colour	red	762832	BK 7-2832	10	
	white	762833	BK 7-2833	10	
	blue	762834	BK 7-2834	10	
General					
Number of terminations	2-pole	3-pole	4-pole	8-pole	16-pole
Rated current	6 A				
Contact material	CuZn				
Contact type	Strength: 0.5 mm; with ribbing both-sides				
Pin spacing	6.2 mm				
Housing material	Vectra C 1330				
Class of flammability according to UL 94	V0				
Termination	plug-in				
Storage temperature range	-40 – 80 °C				
Operation temperature range	-40 – 80 °C				
Length	11.0 mm	17.2 mm	23.4 mm	48.2 mm	97.8 mm
Weight (kg/piece)	0.0005	0.0008	0.0011	0.0022	0.0044

Accessories - Jumper combs

Jumper comb 24-pole for micro compact enclosure 6.2 mm Colour: blue



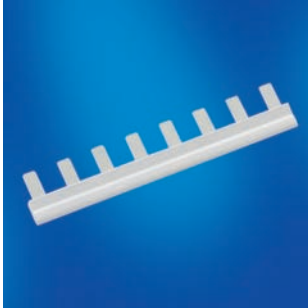
Dimensions



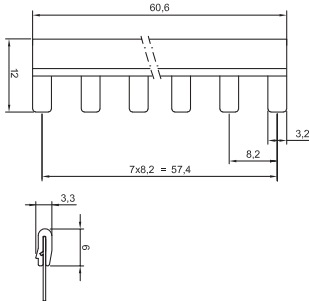
Description	Part-No.	Type	PU	
24-pole				
Colour	blue	760801	BK-6-0801	5
General				
Number of terminations		24-pole		
Rated current		26 A		
Contact material		FeZn		
Contact type		Strength: 0.5 mm; smooth		
Pin spacing		6.2 mm		
Housing material		PVC hard		
Class of flammability according to UL 94		V0		
Termination		plug-in		
Storage temperature range		-40 – 80 °C		
Operation temperature range		-40 – 80 °C		
Length		144.8 mm		
Weight (kg/piece)		0.0090		

Accessories - Jumper combs

Jumper comb 8 pole for LOCC Box Colours: red, white, blue



Dimensions



Description	Part-No.	Type	PU	
8-pole				
Colour	white	716428	LOCC-Box-BKW 7-6428	5
	red	716429	LOCC-Box-BKR 7-6429	5
	blue	716430	LOCC-Box-BKB 7-6430	5

General

Number of terminations	8-pole
Rated current	6 A
Contact material	FeZn
Contact type	Strength: 0.5 mm; smooth
Pin spacing	8,2 mm
Housing material	PVC hard
Class of flammability according to UL 94	V0
Termination	plug-in
Storage temperature range	-40 – 80 °C
Operation temperature range	-40 – 80 °C
Length	60.6 mm
Weight (kg/piece)	0.0031

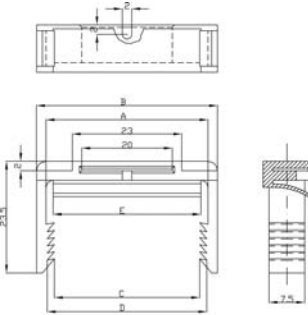
Accessories - Suppression Technology

Retaining clip for enclosure S1, S2 Colour: transparent



Description	Part-No.	Type	PU	
Colour	transparent	700409	Clip S1	10
	transparent	700419	Clip S2	10
General	700409	700419		
Housing material		Makrolon		
Colour		transparent		
Class of flammability according to UL 94		V2		
Surface		smooth		
Termination		on enclosure S1, S2		
Storage temperature range		-20 – 60 °C		
Operation temperature range		-40 – 80 °C		
Dimensions (w x h x d)	38.0 x 23.5 x 7.5 mm	45.5 x 23.5 x 7.5 mm		
Weight (kg/piece)		0.0020		
Wire		-		

Dimensions



	700409	700419
A	34	41.5
B	38	45.5
C	30.5	38
D	33.5	41
E	31	38.5

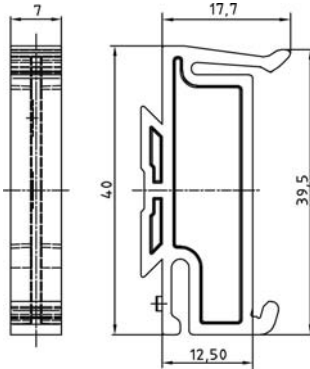
Accessories - Suppression Technology

Snap-on socket
for enclosure V1, VM1, V2, M1, M2, M3, M5
Colour: grey



Description	Part-No.	Type	PU	
Colour	grey, RAL 7035	700499	Socket Type 2	10
General		700499		
Housing material	Luranyl KR 2456-3			
Colour	grey, RAL 7035			
Class of flammability according to UL 94	V1			
Surface	smooth			
Termination	attachable to TS 35 (EN50022)			
Storage temperature range	-20 – 60 °C			
Operation temperature range	-40 – 80 °C			
Dimensions (w x h x d)	7.0 x 39.5 x 20.7 mm			
Weight (kg/piece)	0.0020			
Wire	-			

Dimensions



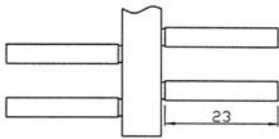
Accessories - Actuator sensor interface

Identification unit
closed
Colour: transparent



Description	Part-No.	Type	PU	
Colour	white	499988	LB M 8/M 12	200
	transparent	499993	Bezeichnungseinheit	500
	transparent	499995	Bezeichnungseinheit	500
General	499988	499993	499995	
Housing material	Ultradur B4520		PVC	
Colour	white		transparent	
Class of flammability according to UL 94	V2		V0	
Surface			smooth	
Termination			-	
Storage temperature range			-50 – 80 °C	
Operation temperature range			-50 – 80 °C	
Dimensions (w x h x d)				
Weight (kg/piece)	0.0050		0.0030	
Wire	-	Ø 2-4mm	Ø 4-7mm	

Dimensions



Accessories - Actuator sensor interface

Protective cover
M8, M12
Colour: black



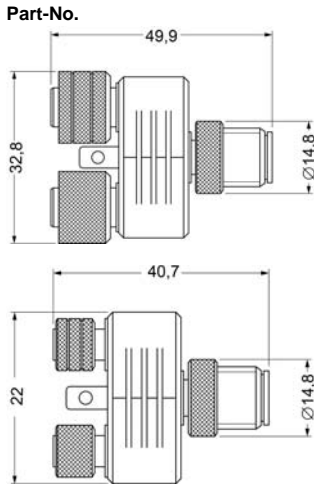
Description	Part-No.	Type	PU	
Colour	black	499989	SK M 8	50
	black	499994	SK M 12	50
General	499989		499994	
Housing material		PVC		
Colour		black		
Class of flammability according to UL 94		V0		
Surface		-		
Termination	M8		M12	
Storage temperature range		-20 – 80 °C		
Operation temperature range		-20 – 80 °C		
Dimensions (w x h x d)				
Weight (kg/piece)		0.0020		
Wire		-		

Accessories - Actuator sensor interface

T piece

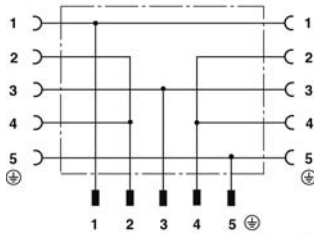
Plug M12 to 2x socket M12, 3-pole distributor PIN 2+4 used +PE

Plug M12 to 2x socket M8, 3-pole distributor

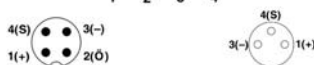
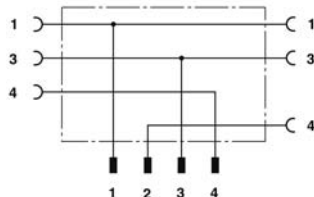


PIN assignment

490026



490038



Description	Part-No.	Type	PU	
Number of terminations	5	490026	AST M 12/2xM 12	10
	3	490038	AST M 12/2xM 8	10

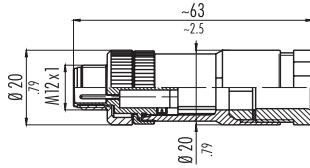
Technical data	490026	490038	
Rated voltage	AC/DC 24 V		
Rated voltage	DC 60V	DC 30V	
Rated current	4 A	3 A	
Number of terminations	5	3	
Coding	A		
General			
Termination	M12		
Rated insulation voltage (EN 50178)	100 V		
Test voltage	1.5 kV		
Pollution degree	3		
Insulation resistance	≥ 10GΩ		
Resistor	≤ 5mΩ		
Class of flammability according to UL 94	HB		
Protection class	IP 65/ IP 67		
Housing material	TPU black		
Contact material	CuZn		
Thread material	CuSn nickel plated		
Gasket	NBR		
Storage temperature range	-25 – 90 °C		
Operation temperature range	-25 – 90 °C		
Weight (kg/piece)	0.0290	0.0140	
Approvals	-		
Accessories	Article number	Type	Pkg. units
Dynamometric key M12	490091	DM-SET M12	1

Accessories - Actuator sensor interface

Duo-plug M12 4-pole / 5-pole Screw terminal blocks



Part-No.



PIN assignment

490047



490048

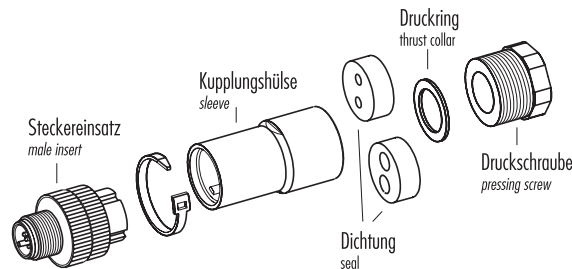


Description		Part-No.	Type	PU
Number of terminations	4	490047	STGD4 - M 12	10
	5	490048	STGD5 - M 12	10

Technical data

Rated voltage	AC/DC 24 V		
Rated voltage	AC/DC 250 V		AC/DC 125 V
Rated current		4 A	
Number of terminations	4		5
Coding		A	
General			
Termination		M12	
Rated insulation voltage (EN 50178)		250 V	
Test voltage	2.95 kV		1.75 kV
Pollution degree		3	
Insulation resistance		≥ 10GΩ	
Resistor		≤ 8mΩ	
Class of flammability according to UL 94		HB	
Protection class		IP 67	
Housing material		PA 66 black	
Contact material		CuZn	
Thread material		CuSn nickel plated	
Gasket		-	
Storage temperature range		-40 – 90 °C	
Operation temperature range		-25 – 85 °C	
Weight (kg/piece)	0.0400		0.0420
Approvals		-	

Mounting diagram



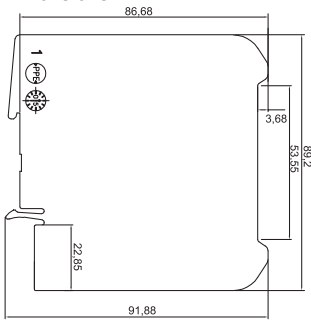
Accessories - Miscellaneous

Isolation plate for micro compact enclosure Colour: black



Description	Part-No.	Type	PU	
Colour	black, RAL 9001	760809	TP 7-0809	10
General		760809		
Housing material	Luranyl KR 2456-3			
Colour	black, RAL 9001			
Class of flammability according to UL 94	V0			
Surface	-			
Termination	attachable to TS 35 (EN50022)			
Storage temperature range	-40 – 80 °C			
Operation temperature range	-40 – 80 °C			
Dimensions (w x h x d)	2.0 x 89.2 x 91.8 mm			
Weight (kg/piece)	0.0050			
Wire	-			

Dimensions

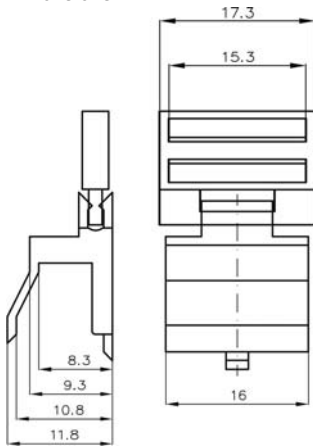


Accessories - Miscellaneous

Identification unit for Varioprint Colour: transparent



Dimensions



Description	Part-No.	Type	PU
Colour	transparent	710799	Bezeichnungseinheit
General		710799	
Housing material		Makrolon	
Colour		transparent	
Class of flammability according to UL 94		V2	
Surface		smooth	
Termination		Varioprint	
Storage temperature range		-20 – 60 °C	
Operation temperature range		-40 – 80 °C	
Dimensions (w x h x d)		17.3 x 31.0 x 11.8 mm	
Weight (kg/piece)		0.0030	
Wire		-	