

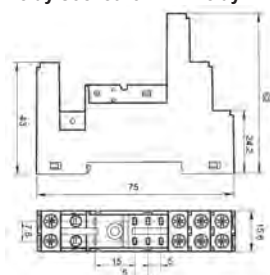
Interface Technology · Microplug relay module

Relay socket for mini and industrial relay AC/DC 300 V Screw terminal



Dimensions

Relay socket for mini relay

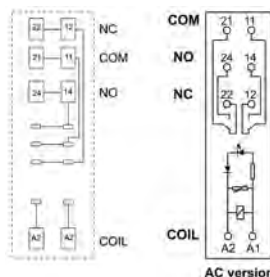


Relay socket for industrial relay

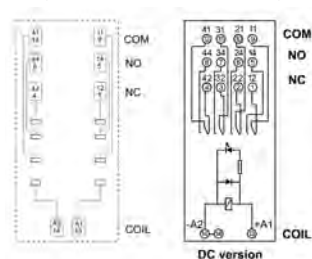


PIN assignment

Relay socket for mini relay



Relay socket for industrial relay



Description		Part-No.	Type	PU
Relay socket for mini relay				
	1/2 change over contact	770900	RES-0900	5
Relay socket for industrial relay				
	2 change over contact	770903	RES-0903	5
	4 change over contact	770905	RES-0905	5
General	Relay socket for mini relay		Relay socket for industrial relay	
Nominal voltage			AC/DC 300 V	
Rated current			AC/DC 12 A pro pin	
Insulation voltage			AC 5000 V	
Protection class			IP 20	
Ambient temperature			-40 °C	
Maße (B×H×T)	16.5 × 75.0 × 66.5 mm	(incl. release lever)	27.2 × 75.0 × 82.0 mm	(incl. release lever)
Accessories		Article number	Type	PU
Jumper comb 10 A (mini relay)		770908	REP-0908	10
Tag holder (mini relay)		770902	REM- 902	10
Mounting bracket relay (mini relay)		770901	REE-0901	10
Mounting bracket relay (industrial relay)		770906	REE-0906	10
Jumper comb 10 A (industrial relay)		770909	REI-0909	10
Tag holder (industrial relay)		770907	REM WT-0907	10

Interface Technology · Microplug relay module

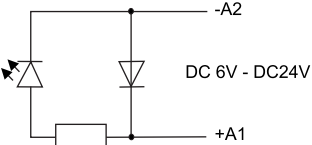
Pluggable microplug protection modules AC/DC 6 – 230 V with LED indication



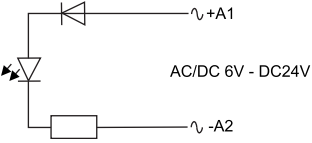
Description		Part-No.	Type	PU
Mini relay with AgNi				
Nominal voltage	DC 6/24 V	770911	PM41G-0911	10
	AC 6/24 V	770913	PM91G-0913	10
	DC 110 V	770916	PM43G-0916	10
	AC/DC 110/230 V	770917	PM93G-0917	10
General	DC 6/24 V	AC 6/24 V	DC 110 V	AC/DC 110/230 V
Protection device	Overload diode	Varistor	Overload diode	Varistor
Status Indication	LED green			

PIN assignment

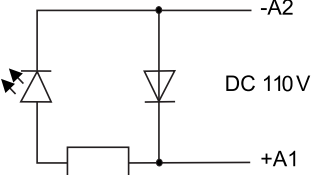
DC 6/24 V



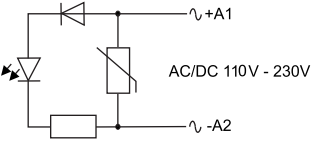
AC 6/24 V



DC 110 V

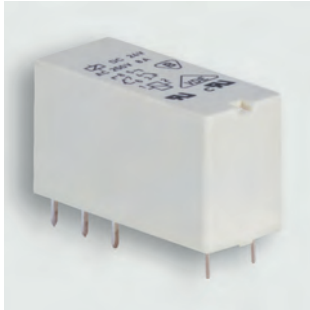


AC/DC 110/230 V

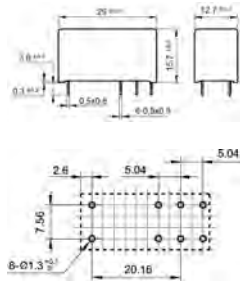


Interface Technology · Microplug relay module

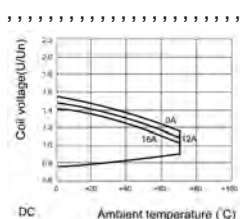
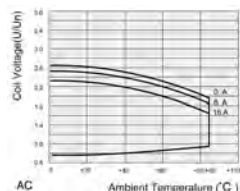
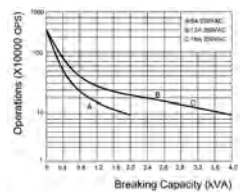
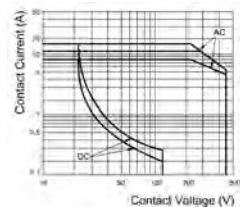
Mini relay, 1 changeover contact
AC 400 V/DC 300 V, 16 A, 4000 VA
Contact material: AgNi



Dimensions



Limit curve



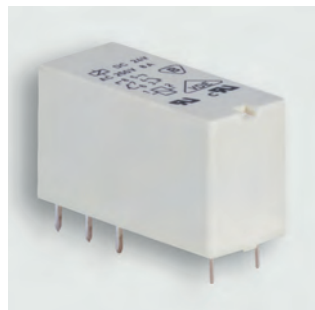
Description	Part-No.	Type	PU	
Relay with AgNi				
Nominal voltage	DC 12 V	770100	RE1W-0100 DC12	10
	DC 24 V	770101	RE1W-0101 DC24	10
	DC 120 V	770106	RE1W-0106 DC120	10
	AC 12 V	770110	RE1W-0110 AC12	10
	AC 24 V	770111	RE1W-0111 AC24	10
	AC 120 V	770116	RE1W-0116 AC120	10
	AC 230 V	770117	RE1W-0117 AC230	10
Input				
Nominal voltage	AC: 12 to 240 V, DC: 12 to 120 V			
Input voltage	AC: ±30 %, DC: ±20 %			
Rated current	– A			
Power consumption	AC: 0.75 VA, 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 400 V / DC 300 V			
Min. switching current	AgNi: AC/DC 5 mA			
Max. switching current	AC1: 16 A / 250 V AC, DC1: 16 A / 24 V DC			
Switching capacity DC 13	24 V: 2 A, 115 V: 300 mA, 230 V: 150 mA			
Switching capacity AC 15	3.3 A			
Inrush current	30 A (4 ms)			
Max. switching capacity	4000 VA			
Resistor	< 100 mΩ			
Contact material	AgNi			
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)	> 10 mm			
Rated insulation voltage (EN 50178)	AC 400 V (C 250/ B 400)			
Overvoltage category	III			
Pollution degree	3			
General				
Protection class	RTII - flux-tight			
Shock resistance	10 g			
Vibration resistance	10g, 10...150 Hz			
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 × h × d)	29.0 × 15.7 × 12.7 mm			
Weight (kg/piece)	0.014			
Approvals	UL, CSA, VDE			
Termination	plug-in			

Interface Technology · Microplug relay module

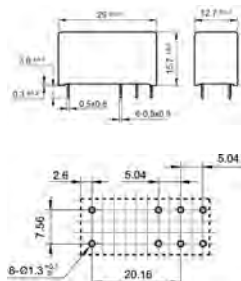
Mini relay, 2 changeover contact

AC 400 V/DC 300 V, 8 A, 2000 VA

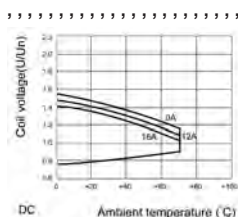
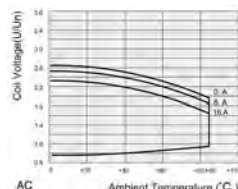
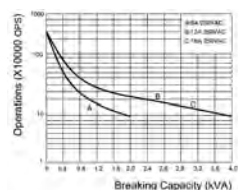
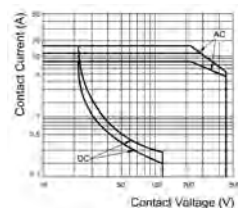
Contact material: AgNi, AgNi+5 µm gold-plating



Dimensions



Limit curve



Description		Part-No.	Type	PU
Relay with AgNi				
Nominal voltage	DC 12 V	770918	RE2W-0918 DC12	10
	DC 24 V	770920	RE2W-0920 DC24	10
	DC 120 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				
Nominal voltage	DC 12 V	770919	RE2WHV-0919 DC12	10
	DC 24 V	770921	RE2WHV-0921 DC24	10
	DC 120 V	770923	RE2WHV-0923 DC120	10

Input	Relay with AgNi	Relay with AgNi + 5 µm HV
Nominal voltage	AC: 12 to 240 V, DC: 12 to 120 V	
Input voltage	AC: ±30 %, DC: ±20 %	
Rated current	– A	
Power consumption	AC: 0.75 VA, 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 400 V / DC 300 V	
Min. switching current	AgNi: AC/DC 5 mA	AgNi+ 5 µm HV: AC/DC 2 mA
Max. switching current	AC1: 8 A / 250 V AC, DC1: 8 A / 24 V DC	
Switching capacity DC 13	24 V: 2 A, 115 V: 300 mA, 230 V: 150 mA	
Switching capacity AC 15	3.3 A	
Inrush current	15A (4ms)	
Max. switching capacity	2000 VA	
Resistor	< 100 mΩ	
Contact material	AgNi	AgNi+5 µm 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)	> 10 mm	
Rated insulation voltage (EN 50178)	AC 400 V (C 250/ B 400)	
Overvoltage category	III	
Pollution degree	3	
General		
Protection class	RTII - flux-tight	
Shock resistance	10 g	
Vibration resistance	10 g, 10...150 Hz	
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 × h × d)	29.0 × 15.7 × 12.7 mm	
Weight (kg/piece)	0.014	
Approvals	UL, CSA, VDE	
Termination	plug-in	

Comments

To prevent damage to the gold layer, the stated values should not be exceeded.

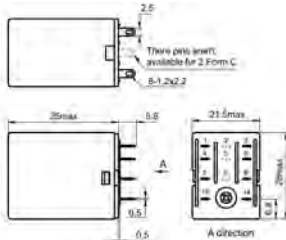
At higher switching capacity, the gold layer vaporizes. The undercurrent in the housing can result in flashovers between coil - contact.

Interface Technology · Microplug relay module

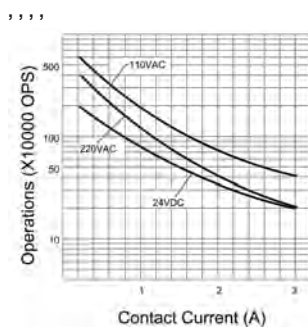
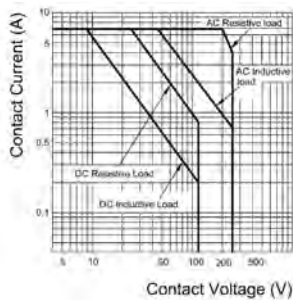
Industrial relay, 2 changeover contact
AC/DC 250 V, 7 A, 1750 VA
Contact material: AgNi



Dimensions



Limit curve



Description	Part-No.		Type	PU
Relay with AgNi				
Nominal voltage	DC 12 V	770500	RE2W-0500 DC12	10
	DC 24 V	770501	RE2W-0501 DC24	10
	DC 120 V	770506	RE2W-0506 DC120	10
Input				
Nominal voltage	DC: 12 to 120 V			
Input voltage	DC: ±10 %			
Rated current	– A			
Power consumption	DC: 0.9 W			
Interrupting voltage	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 5 mA			
Max. switching current	AC1: 7 A / 250 V AC, DC1: 7 A / 30 V DC			
Switching capacity DC 13	24 V: 2 A, 115 V: 300 mA, 230 V: 150 mA			
Switching capacity AC 15	3.3 A			
Inrush current	20 A (4 ms)			
Max. switching capacity	1750 VA			
Resistor	< 100 mΩ			
Contact material	AgNi			
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)	Air clearance: >2.5 mm, creep clearance: >4 mm			
Rated insulation voltage (EN 50178)	AC 250 V (C 250)			
Overvoltage category	III			
Pollution degree	3			
General				
Protection class	RTI - dust proof			
Shock resistance	10 g			
Vibration resistance	5 g, 10...55 Hz			
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			

Interface Technology · Microplug relay module

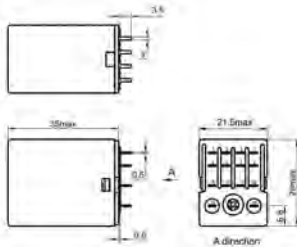
Industrial relay, 4 changeover contacts

AC/DC 250 V, 5 A, 1250 VA

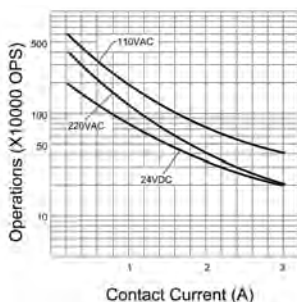
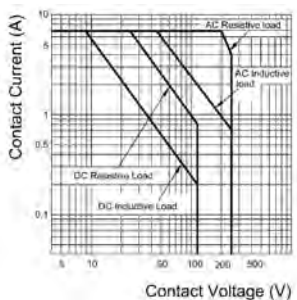
Contact material: AgNi, AgNi+5 µm gold-plating



Dimensions



Limit curve



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

Input	Relay with AgNi	Relay with AgNi + 5 µm HV
Nominal voltage	AC: 12 to 240 V; DC: 12 to 120 V	
Input voltage	AC: ±20 %, DC: ±10 %	
Rated current	– A	
Power consumption	AC: 1.2 VA, DC: 0.9 W	
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 5 mA	AgNi+ 5 µm HV: AC/DC 2 mA
Max. switching current	AC1: 5 A / 250 V AC, DC1: 5 A / 24 V DC	
Switching capacity DC 13	24 V: 2 A, 115 V: 300 mA, 230 V: 150 mA	
Switching capacity AC 15	3.3 A	
Inrush current	10 A (4 ms)	
Max. switching capacity	1250 VA	
Resistor	< 100 mΩ	
Contact material	AgNi	AgNi+5 µm 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. (contoll/load side)	Air clearance: >1.6 mm, creep clearance: >3.2 mm	
Rated insulation voltage (EN 50178)	AC 250 V (B 250)	
Overvoltage category	III	
Pollution degree	3	
General		
Protection class	RTI - dust proof	
Shock resistance	10 g	
Vibration resistance	5 g, 10...55 Hz	
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	

Comments

To prevent damage to the gold layer, the stated values should not be exceeded.

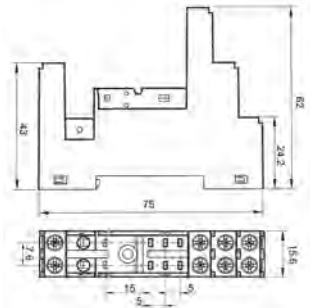
At higher switching capacity, the gold layer vaporizes. The undercurrent in the housing can result in flashovers between coil - contact.

Interface Technology · Microplug Relay Module

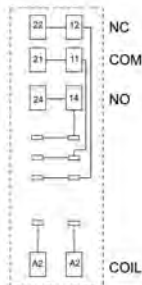
DC-Relay-Interface, 1 CO contact, pluggable
AC 400 V/DC 300 V, 16 A, 4000 VA
Screw terminal, contact material: AgNi



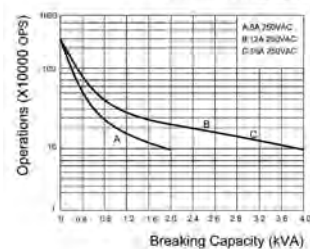
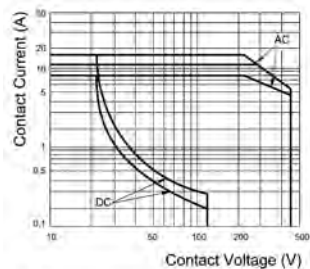
Dimensions



PIN assignment



Limit curve



Description		Part-No.	Type	PU
Relay Module with AgNi				
Nominal voltage	DC 12 V	770140	REP-0140 1W DC 12 V	5
	DC 24 V	770141	REP-0141 1W DC 24 V	5
	DC 115 V	770146	REP-0146 1W DC 115 V	5

Input	DC 12 V	DC 24 V	DC 115 V
Input voltage range	8.4 – 18.0 V	16.8 – 36.0 V	77.0 – 165.0 V
Rated current	34.0 mA	17.0 mA	5.0 mA
Nominal voltage	DC 12 V	DC 24 V	DC 115 V
Power consumption		0.40 W	
Interrupting voltage	<1.2 V	<2.4 V	<11 V
Protection device		overload diode	
Max. length of connecting lead		–	
Status Indication		LED green	

Output	
Contact type	1 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC 400 V / DC 300 V
Min. switching current	AgNi: AC/DC 5 mA
Max. switching current	AC/DC 16 A
Switching capacity AC 15	3.3 A
Switching capacity DC 13	at 24 V: 2A; at 115 V: 300 mA; at 230 V, 150 mA
Max. switching capacity	4000 VA
Contact material	AgNi
Mechanical service life	>1 × 10 ⁷ operations
Switch-on delay	15 ms
Switch-off delay	8 ms

Clearance/creep. dist. (contol/load side)	Clearance distance: > 10 mm; creepage distance: > 10mm
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Rated insulation voltage (EN 50178)	AC 400 V (category C 250)
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General	
Housing material	PA66+GF V0 (UL)
Protection class	IP 20
Field installation	rail TS 35 (EN 50022)
Insulation voltage input/output	5.0 kV _{eff}
Safe isolation	Yes
Operation temperature range	-40 °C – 85 °C
Storage temperature range	-40 °C – 85 °C
Maße (B×H×T)	15.6 × 75.0 × 67.0 mm (including mounting bracket)
Weight (kg/piece)	0.062
Approvals	cULus
Termination	Screw terminal: 0.2–4.0 mm ²

Accessories	Colour	Article number	Type	PU
Jumper comb 10A	black	770908	REP-0908	10
Plate		770902	REM-0902	10
Mounting bracket relay		770901	REE-0901	10

Interface Technology · Microplug Relay Module

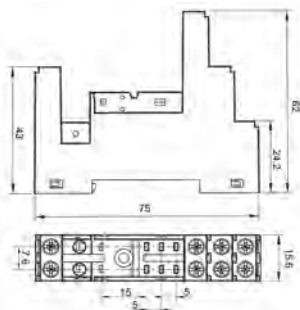
AC-Relay-Interface, 1 CO contact, pluggable

AC 400 V/DC 300 V, 16 A, 4000 VA

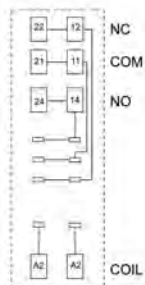
Screw terminal, contact material: AgNi



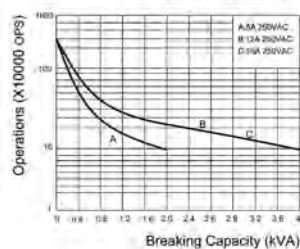
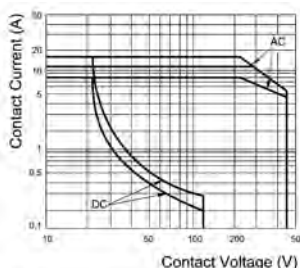
Dimensions



PIN assignment



Limit curve



Description		Part-No.	Type	PU
Relay Module with AgNi				
Nominal voltage	AC 12 V	770150	REP-0150 1W AC 12 V	5
	AC 24 V	770151	REP-0151 1W AC 24 V	5
	AC 120 V	770156	REP-0156 1W AC 120 V	5
	AC 230 V	770157	REP-0157 1W AC 230 V	5

Input	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Input voltage range	9.6 – 14.0 V	19.2 – 28.2 V	96.0 – 144.0 V	184.0 – 276.0 V
Rated current	130.0 mA	68.0 mA	14.0 mA	7.0 mA
Nominal voltage	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Power consumption	0.75 VA			
Interrupting voltage	<1.2 V	<3.6 V	<17.3 V	<34.5 V
Protection device	varistor			
Max. length of connecting lead	–			
Status Indication	LED green			

Output	
Contact type	1 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC 400 V / DC 300 V
Min. switching current	AgNi: AC/DC 5 mA
Max. switching current	AC/DC 16 A
Switching capacity AC 15	3.3 A
Switching capacity DC 13	at 24 V: 2 A, at 115 V: 300 mA, at 230 V: 150 mA
Max. switching capacity	4000 VA
Contact material	AgNi
Mechanical service life	>1 × 10 ⁷ operations
Switch-on delay	15 ms
Switch-off delay	5 ms
Clearance/creep. dist. (contol/load side)	Clearance distance: > 10 mm; creepage distance: > 10mm

Rated insulation voltage (EN 50178)	AC 400 V (category C 250)
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General	
Housing material	PA66+GF V0 (UL)
Protection class	IP 20
Field installation	rail TS 35 (EN 50022)
Insulation voltage input/output	5.0 kV _{eff}
Safe isolation	Yes
Operation temperature range	-40 °C – 70 °C
Storage temperature range	-40 °C – 85 °C
Maße (B×H×T)	15.6 × 75.0 × 67.0 mm (including mounting bracket)
Weight (kg/piece)	0.062
Approvals	cULus
Termination	Screw terminal: 0.2–4.0 mm ²

Interface Technology · Microplug Relay Module

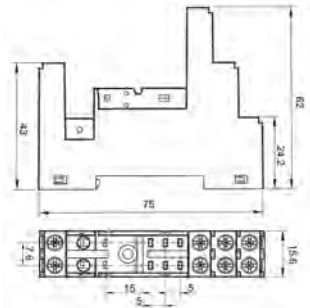
DC-Relay-Interface, 2 CO contact, pluggable

AC 400 V / DC 300 V, 8 A, 2000 VA

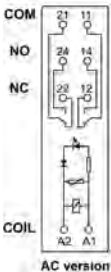
Screw terminal, Contact material: AgNi, AgNi 5 µm HV



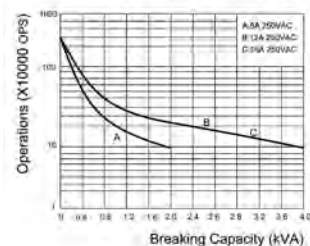
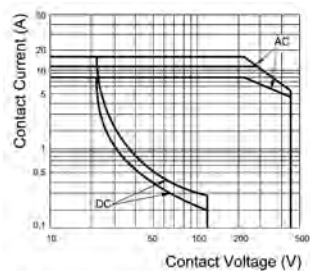
Dimensions



PIN assignment



Limit curve



Description	Part-No.		Type	PU
Relay Module with AgNi				
Nominal voltage	DC 12 V	770040	REP-0040 2W DC 12 V	5
	DC 24 V	770041	REP-0041 2W DC 24 V	5
	DC 115 V	770046	REP-0046 2W DC 115 V	5
Relay Module with AgNi + 5µm HV				
Nominal voltage	DC 12 V	770240	REP-0240 2W HTV DC 12 V	5
	DC 24 V	770241	REP-0241 2W HTV DC 24 V	5
	DC 115 V	770246	REP-0246 2W HTV DC 115 V	5
Input	DC 12 V	DC 24 V	DC 115 V	
Input voltage range	8.4 – 18.0 V	16.8 – 31.2 V	77.0 – 165.0 V	
Rated current	34.0 mA	16.0 mA	4.0 mA	
Nominal voltage	DC 12 V	DC 24 V	DC 115 V	
Power consumption		0.40 W		
Interrupting voltage	<1.2 V	<2.4 V	<11 V	
Protection device		Overload diode		
Max. length of connecting lead		–		
Status Indication		LED green		
Output	Relay Module with AgNi	Relay Module with AgNi + 5µm HV		
Contact type		2 change over contact		
Min. switching voltage		AC/DC 5 V		
Max. switching voltage		AC 400 V / DC 300 V		
Min. switching current	AgNi: AC/DC 5 mA	AgNi+5 µm HV: AC/DC 2 mA		
Max. switching current		AC/DC 8 A		
Switching capacity AC 15		at 24 V: 3.1 A, at 230 V: 2 A		
Switching capacity DC 13		at 24 V: 2A, at 115 V: 300 mA, at 230 V: 150 mA		
Max. switching capacity		2000 VA		
Contact material	AgNi	AgNi + 5 µm HV		
Mechanical service life		>1 × 10 ⁷ operations		
Switch-on delay		15 ms		
Switch-off delay		5 ms		
Clearance/creep. dist. (contol/load side)		Clearance distance: >10 mm; Creepage distance: >10 mm		
Rated insulation voltage (EN 50178)		AC 400 V (category C 250)		
General				
Housing material		PA66+GF V0 (UL)		
Protection class		IP 20		
Field installation		rail TS 35 (EN 50022)		
Insulation voltage input/output		5.0 kV _{eff}		
Safe isolation		yes		
Operation temperature range		-40 °C – 85 °C		
Storage temperature range		-40 °C – 85 °C		
Maße (B×H×T)		15.6 × 75.0 × 67.0 mm (including mounting bracket)		
Weight (kg/piece)		0.062		
Approvals		cULus		
Termination		Screw terminal: 0.2–4.0 mm ²		

Comments

To prevent damage to the gold layer, the stated values should not be exceeded.

At higher switching capacity, the gold layer vaporizes. The undercurrent in the housing can result in flashovers between coil - contact.

Interface Technology · Microplug Relay Module

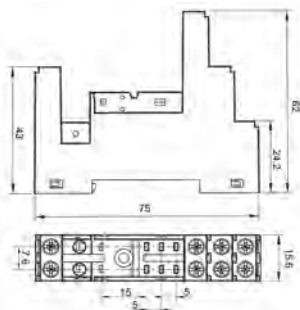
AC-Relay-Interface, 2 CO contact, pluggable

AC 400 V/DC 300 V, 8 A, 2000 VA

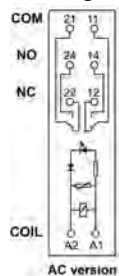
Screw terminal, contact material: AgNi



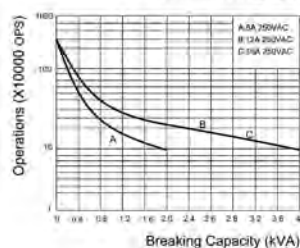
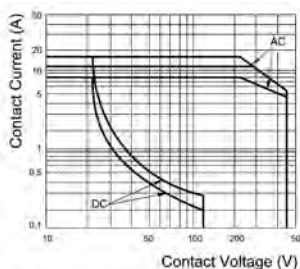
Dimensions



PIN assignment



Limit curve



Description		Part-No.	Type	PU
Relay Module with AgNi				
Nominal voltage	AC 12 V	770050	REP-0050 2W AC 12 V	5
	AC 24 V	770051	REP-0051 2W AC 24 V	5
	AC 120 V	770056	REP-0056 2W AC 120 V	5
	AC 230 V	770047	REP-0047 2W AC 230 V	5

Input	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Input voltage range	9.6 – 14.0 V	19.2 – 28.2 V	96.0 – 144.0 V	184.0 – 276.0 V
Rated current	130.0 mA	68.0 mA	14.0 mA	7.0 mA
Nominal voltage	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Power consumption	0.75 VA			
Interrupting voltage	<1.2 V	<3.6 V	<17.3 V	<34.5 V
Protection device	Varistor			
Max. length of connecting lead	–			
Status Indication	LED green			

Output	
Contact type	2 change over contact
Min. switching voltage	AC/DC 5 V
Max. switching voltage	AC 400 V / DC 300 V
Min. switching current	AgNi: AC/DC 5 mA
Max. switching current	AC/DC 8 A
Switching capacity AC 15	at 24 V: 3.1 A, at 230 V: 2 A
Switching capacity DC 13	at 24 V: 2 A, at 115 V: 300 mA, at 230 V: 150 mA
Max. switching capacity	2000 VA
Contact material	AgNi
Mechanical service life	>1 × 10 ⁷ operations
Switch-on delay	15 ms
Switch-off delay	5 ms
Clearance/creep. dist. (contol/load side)	Clearance distance: >10 mm; Creepage distance: >10 mm
Rated insulation voltage (EN 50178)	AC 400 V (category C 250)

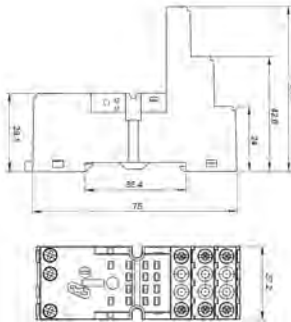
General	
Housing material	PA66+GF V0 (UL)
Protection class	IP 20
Field installation	rail TS 35 (EN 50022)
Insulation voltage input/output	5.0 kV _{eff}
Safe isolation	yes
Operation temperature range	-40 °C – 70 °C
Storage temperature range	-40 °C – 85 °C
Maße (B×H×T)	15.6 × 75.0 × 67.0 mm (including mounting bracket)
Weight (kg/piece)	0.062
Approvals	cULus
Termination	Screw terminal: 0.2–4.0 mm ²

Interface Technology · Microplug Relay Module

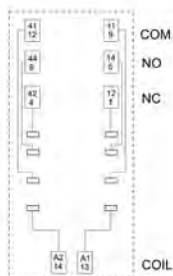
DC-Relay-Interface, 2 CO contact, pluggable
AC/DC 250 V; 7 A, 1750 VA
Screw terminal, contact material: AgNi



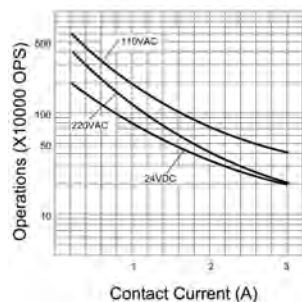
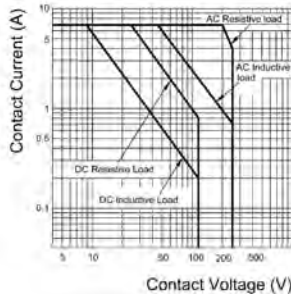
Dimensions



PIN assignment



Limit curve



Description	Part-No.		Type	PU
Relay Module with AgNi				
Nominal voltage	DC 12 V	770540	REI2-0540 2W DC 12 V	5
	DC 24 V	770541	REI2-0541 2W DC 24 V	5
	DC 115 V	770546	REI2-0546 2W DC 115 V	5
Input	DC 12 V	DC 24 V	DC 115 V	
Input voltage range	9.6 – 13.2 V	19.2 – 26.4 V	88.0 – 121.0 V	
Rated current	75.0 mA	37.0 mA	11.0 mA	
Nominal voltage	DC 12 V	DC 24 V	DC 115 V	
Power consumption		0.9 W		
Interrupting voltage	<1.2 V	<2.4 V	<11 V	
Protection device		overload diode		
Max. length of connecting lead		–		
Status Indication		LED green		
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 5 mA		
Max. switching current		AC/DC 7 A		
Switching capacity AC 15		at 24 V: 2.5 A; at 230 V: 1.5 A		
Switching capacity DC 13		at 24 V: 1.8A, at 115 V: 300 mA, at 230 V: 150 mA		
Max. switching capacity		3000 VA		
Contact material		AgNi		
Mechanical service life		>2 x 10 ⁷ operations		
Switch-on delay		25 ms		
Switch-off delay		25 ms		
Clearance/creep. dist. (contol/load side)	Clearance distance: > 2 mm; creepage distance: > 3mm			
Rated insulation voltage (EN 50178)	AC 250 V (category C 250)			
General				
Housing material	PA 66+GF V0 (UL)			
Protection class	IP 20			
Field installation	rail TS 35 (EN 50022)			
Insulation voltage input/output	1.5 kV _{eff}			
Safe isolation	yes			
Operation temperature range	-40 °C – 70 °C			
Storage temperature range	-40 °C – 85 °C			
Maße (B×H×T)	27.2 × 75.0 × 82.0 mm (including mounting bracket)			
Weight (kg/piece)	0.097			
Approvals	cULus			
Termination	Screw terminal: 0.2–4.0 mm ²			

Interface Technology · Microplug Relay Module

DC-Relay-Interface, 4 CO contact, pluggable

AC/DC 250 V, 5 A, 1250 VA

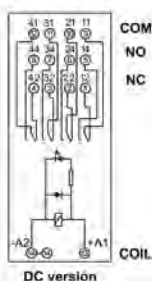
Screw terminal, Contact material: AgNi, AgNi + 5 µm HV



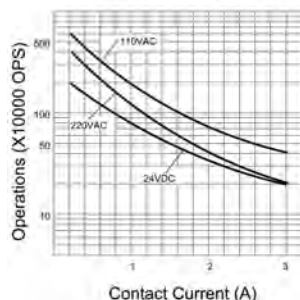
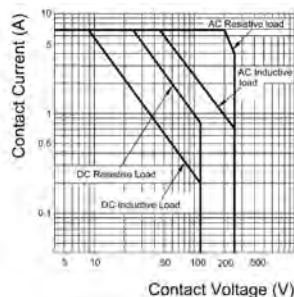
Dimensions



PIN assignment



Limit curve



Description	Part-No.		Type	PU
Relay Module with AgNi				
Nominal voltage	DC 12 V	770440	REI4-0440 4W DC 12 V	5
	DC 24 V	770441	REI4-0441 4W DC 24 V	5
	DC 115 V	770446	REI4-0446 4W DC 115 V	5
Relay Module with AgNi + 5µm HV				
Nominal voltage	DC 12 V	770460	REI4-0460 4W HTV DC 12 V	5
	DC 24 V	770461	REI4-0461 4W HTV DC 24 V	5
	DC 115 V	770466	REI4-0466 4W HTV DC 115 V	5
Input	DC 12 V	DC 24 V	DC 115 V	
Input voltage range	9.6 – 13.2 V	19.2 – 26.4 V	88.0 – 121.0 V	
Rated current	75.0 mA	37.0 mA	11.0 mA	
Nominal voltage	DC 12 V	DC 24 V	DC 115 V	
Power consumption		0.9 W		
Interrupting voltage	<1.2 V	<2.4 V	<11 V	
Protection device		Overload diode		
Max. length of connecting lead		–		
Status Indication		LED green		
Output	Relay Module with AgNi		Relay Module with AgNi + 5µm HV	
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 5 mA	AgNi+5 µm HV: AC/DC 2 mA		
Max. switching current		AC/DC 5 A		
Switching capacity AC 15		at 24 V: 2.5 A, at 230 V: 1.5 A		
Switching capacity DC 13		at 24 V: 1.8A, at 115 V: 300 mA, at 230 V: 150 mA		
Max. switching capacity		1250 VA		
Contact material	AgNi	AgNi + 5 µm HV		
Mechanical service life		>2 x 10 ⁷ operations		
Switch-on delay		25 ms		
Switch-off delay		25 ms		
Clearance/creep. dist. (contol/load side)	Clearance distance: > 2 mm; creepage distance: > 3mm			
Rated insulation voltage (EN 50178)	AC 250 V (category B 250)			
General				
Housing material	PA 66+GF V0 (UL)			
Protection class	IP 20			
Field installation	rail TS 35 (EN 50022)			
Insulation voltage input/output	1.5 kV _{eff}			
Safe isolation	yes			
Operation temperature range	-40 °C – 70 °C			
Storage temperature range	-40 °C – 85 °C			
Maße (B×H×T)	27.2 × 75.0 × 82.0 mm (including mounting bracket)			
Weight (kg/piece)	0.108			
Approvals	cULus			
Termination	Screw terminal: 0.2–4.0 mm ²			

Comments

To prevent damage to the gold layer, the stated values should not be exceeded.

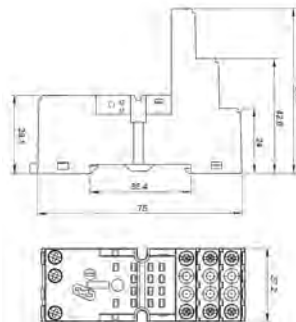
At higher switching capacity, the gold layer vaporizes. The undercurrent in the housing can result in flashovers between coil - contact.

Interface Technology · Microplug Relay Module

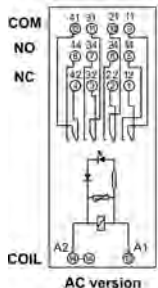
AC-Relay-Interface, 4 CO contact, pluggable
AC/DC 250 V, 5 A, 1250 VA
Screw terminal, contact material: AgNi



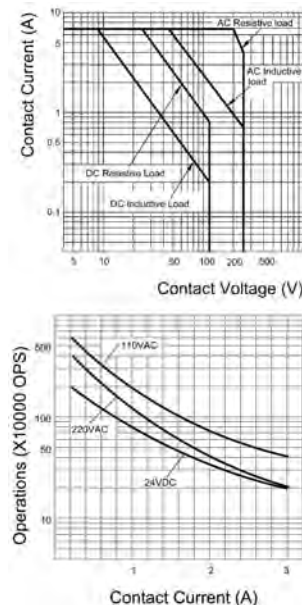
Dimensions



PIN assignment



Limit curve



Description	Part-No.	Type	PU	
Relay Module with AgNi				
Nominal voltage	AC 12 V	770450	REI4-0450 4W AC 12 V	5
	AC 24 V	770451	REI4-0451 4W AC 24 V	5
	AC 120 V	770456	REI4-0456 4W AC 120 V	5
	AC 230 V	770457	REI4-0457 4W AC 230 V	5

Input	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Input voltage range	9.6 – 13.2 V	19.2 – 26.4 V	96.0 – 132.0 V	184.0 – 253.0 V
Rated current	260.0 mA	130.0 mA	26.0 mA	16.0 mA
Nominal voltage	AC 12 V	AC 24 V	AC 120 V	AC 230 V
Power consumption			1.2 VA	
Interrupting voltage	<3.6 V	<7.2 V	<36 V	<66 V
Protection device			Varistor	
Max. length of connecting lead			–	
Status Indication			LED green	

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 5 mA
Max. switching current	AC/DC 5 A
Switching capacity AC 15	at 24 V: 2.5 A, at 230 V: 1.5 A
Switching capacity DC 13	at 24 V: 1.8 A, at 115 V: 300 mA, at 230 V: 150 mA
Max. switching capacity	1250 VA
Contact material	AgNi
Mechanical service life	>2 x 10 ⁷ operations
Switch-on delay	25 ms
Switch-off delay	25 ms
Clearance/creep. dist. (contol/load side)	Air clearance: >2 mm, creep clearance: >3 mm

Rated insulation voltage (EN 50178)	AC 250 V (category B 250)
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General	
Housing material	PA 66+GF V0 (UL)
Protection class	IP 20
Field installation	rail TS 35 (EN 50022)
Insulation voltage input/output	1.5 kV _{eff}
Safe isolation	yes
Operation temperature range	-40 °C – 70 °C
Storage temperature range	-40 °C – 85 °C
Maße (B×H×T)	27.2 × 75.0 × 82.0 mm
Weight (kg/piece)	0.108
Approvals	UL, CSA
Termination	Screw terminal: 0.2–4.0 mm ²