

## Electromechanical Relays

### Electromechanical power relays RERM3

#### Application

Electromechanical relays RERM are designed for switching, control and signaling of auxiliary and power circuits.

#### Features

- 3 changeover contacts;
- Control voltages AC 24V, AC 230V;
- Test button without blocking
- Base for relay RERB3-S (DIN rail mounting TH-35);
- Accessories: (metal bracket-holder RER-CLIP-SP);

#### Electromagnetic Plug-in Relays with Mechanical Indication and Lockable Test Button

Type	Code	Uc rated coil voltage [V]	Indication	No. Of contacts	Weight [g]	Packaging [pcs]
RERM3-230AC	002473060	230 V AC	-	3 x CO In=16A	80	1/100
RERM3-230ACL	002473061	230 V AC	LED		80	1/100
RERM3-024AC	002473062	24 V AC	-	AC1, 250V AC)	80	1/100
RERM3-024ACL	002473063	24 V AC	LED		80	1/100

- Screw terminals (max torque 0.7 Nm);

#### Plug-in Sockets (Base)

Type	Code	For use with	Single product weight [g]	Packaging [pcs]
RERB3-S	002473064	RERM3	70	1/250

#### Accessories

Type	Code	For use with	Single product weight [g]	Packaging [pcs]
RER-CLIP-SP	002473065	RERB3-S	-	1/1000



RERM3-230AC



RERB3-S



RER-CLIP-SP

## Industrial Plugin Electromagnetic Relays

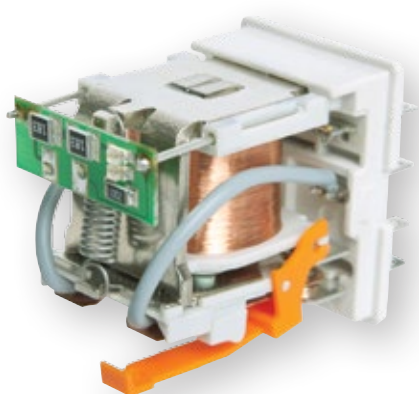
### Description

Relays of general application - the new relays are distinguished by a modern design, high reliability and functionality. Modern technology ensures high quality and effectiveness

- ERM2 (2 pole CO »change over contact«) and ERM4 (4 pole CO »change over contact«)
- AC and DC coils (12, 24V), 230V AC only
- Two types of plug-in sockets (M type and T type)
- Accessories ( connection terminals, retainer /retractor clips, description plates, RC modules...)
- Colour: grey

### Features

- Mechanical indicator with lockable test button as a standard version
- Optional: Light indication (with built in smd LED)
- Mounting on panel or 35 mm rail in accordance with EN60715
- Improved electromagnet efficiency
- Strong insulation between contacts ( applied polyamide PA66)
- Cadmium - free contacts



**Robust design**

### Test buttons

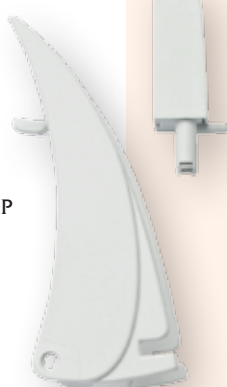
green - DC coils



orange - AC coils



Protecting module ERC



Retainer / retractor clip - ER-CLIP

Electromagnetic relay ERM



Screw terminals plug-in socket ERB



Description plate ER-PLATE

\* All parts must be ordered separately

## Electromechanical Relays

## Electromagnetic Plug-in Relays with Mechanical Indication and Lockable Test Button

Type	Code	Rated coil voltage [V]	No. Of contacts	Weight [g]	Packaging [pcs]
ERM4-012DC	002473021	12 V DC	4 x CO (6A, AC1)	33	10/100
ERM2-024DC	002473000	24 V DC	2 x CO (12A, AC1)	33	10/100
ERM2-024DCL	002473001	24 V DC	2 x CO (12A, AC1)	33	10/100
ERM2-024AC	002473002	24 V AC	2 x CO (12A, AC1)	33	10/100
ERM2-024ACL	002473003	24 V AC	2 x CO (12A, AC1)	33	10/100
ERM2-230AC	002473004	230 V AC	2 x CO (12A, AC1)	33	10/100
ERM2-230ACL	002473005	230 V AC	2 x CO (12A, AC1)	33	10/100
ERM4-024DC	002473006	24 V DC	4x CO (6A, AC1)	33	10/100
ERM4-024DCL	002473007	24 V DC	4x CO (6A, AC1)	33	10/100
ERM4-024AC	002473008	24 V AC	4x CO (6A, AC1)	33	10/100
ERM4-024ACL	002473009	24 V AC	4x CO (6A, AC1)	33	10/100
ERM4-230AC	002473010	230 V AC	4x CO (6A, AC1)	33	10/100
ERM4-230ACL	002473011	230 V AC	4x CO (6A, AC1)	33	10/100

\*L - built in LED light indicator (red)

Other coil (control) voltages available upon special request:

V DC: 5, 6, 48, 60, 80, 110, 220

V AC: 6, 12, 42, 48, 60, 80, 110, 115, 120, 127, 220, 240

## Ordering designation

ERMX-YYYYZ

X - Number of contacts:

4: 4 CO (4 changeover)

2: 2 CO (2 changeover)

YYYY - Coil code:

024AC: 24 V AC 50/60 Hz

230AC: 230 V AC 50/60 Hz

024DC: 24 V DC

012DC: 12 V DC

Z - Additional features:

L - Light indicator (smd LED - red)

Example:

ERM4-024DCL Electromagnetic relay for plug-in sockets with mechanical indication and lockable test button, four changeover contacts, coil voltage 24 V DC with light indicator.

## Plug-in Sockets (Base)

Type	Code	For use with	Single product weight [g]	Packaging [pcs]
ERB2-T	002473012	ERM2	60	10/100
ERB2-M	002473013	ERM2	71	10/80
ERB4-T	002473014	ERM4	60	10/100
ERB4-M	002473015	ERM4	71	10/80

T - T type

M - M type



ERB2-T, ERB4-T



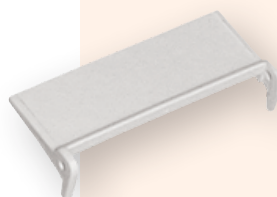
ERB2-M, ERB4-M

## Accessories

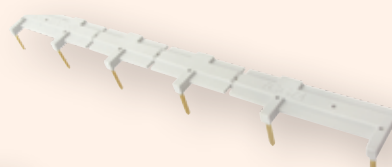
Type	Code	For use with	Single product weight [g]	Packaging [pcs]
ER-CLIP	002473016	ERB-T & ERB-M	4,5	10/300
ER-PLATE	002473017	ERB-T & ERB-M	0,5	10/400
ER-TERMINAL	002473018	ERB-T & ERB-M	1,3	2/20
ERC-024AC	002473019	ERB-T & ERB-M $U_c \leq 24V$ AC	2,6	20/100
ERC-230AC	002473020	ERB-T & ERB-M $U_c \leq 230V$ AC	2,6	20/100
ERC-024ACDCL	002473040	ERB-T & ERB-M $U_c = 6 \dots 24V$ AC/DC	2,9	20/100
ERC-060ACDCL	002473041	ERB-T & ERB-M $U_c = 24 \dots 60V$ AC/DC	2,9	20/100
ERC-230ACDCL	002473042	ERB-T & ERB-M $U_c = 110 \dots 230V$ AC/DC	2,9	20/100



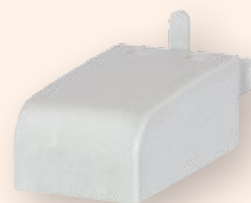
**ER-CLIP**  
Mechanical lock of relay in socket



**ER-PLATE**  
description



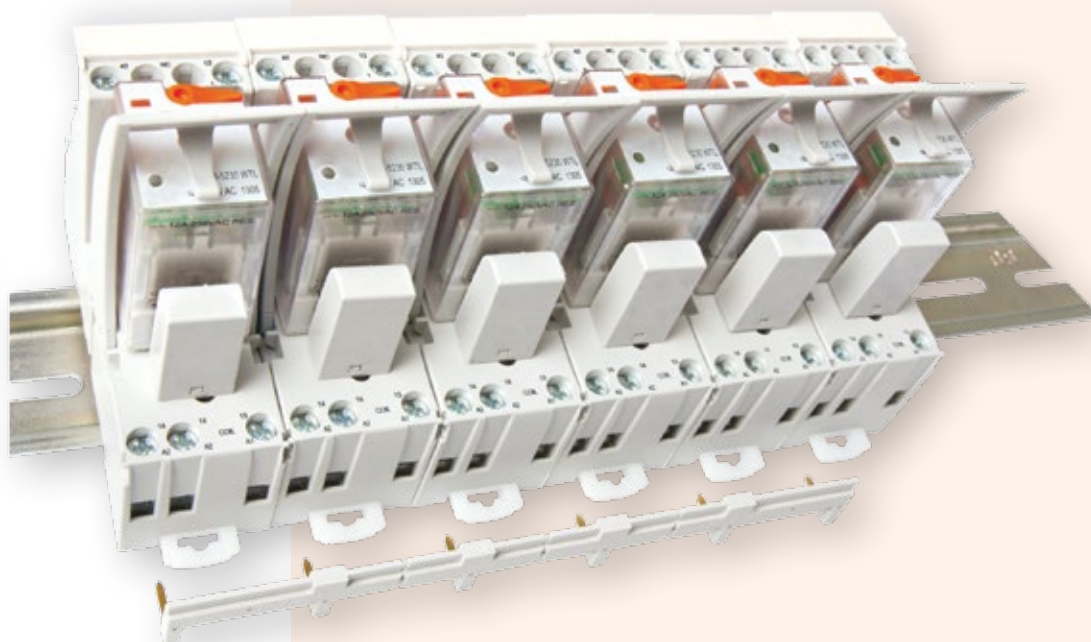
**ER-TERMINAL**  
bridges common input signals (coil terminals  
A1 or A2) up to 6 relays



**ERC**  
protection module



**ERC-(024...230)ACDCL**  
MOV protection module with indication AC and DC.



## Miniature Electromagnetic Relays

### Description

Electromechanical relay with 2x CO contacts in miniature housing. Can be used in PCB or with plug-in sockets.

- MER2 (2 pole CO »change over contact«, 2x8A AC1)
- Wide range of control voltages ( AC coils: 24V and 230V, DC coils: 5V, 12V, 24V)
- Two types of plugin sockets (M type and T type)
- Accessories (retainer/retractor clips, RC modules...)
- Color: Grey

**New!**

### Features

- Cadmium - free contacts; height 15,7 mm
- 5000V / 10 mm reinforced insulation
- For PCB and plug-in sockets
- AC and DC coils
- Compliance with standard EN 60335-1
- RoHS



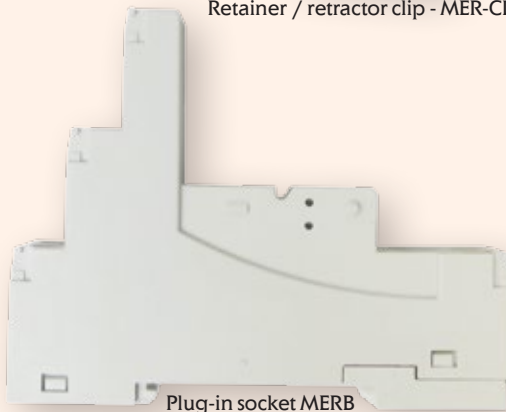
Miniature electromechanical relay MER



Retainer / retractor clip - MER-CLIP-PL



Description plate MER-PLATE

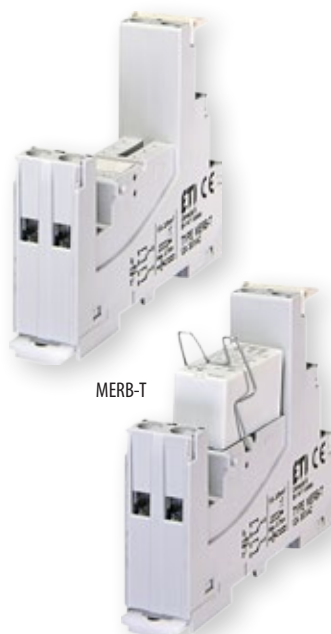
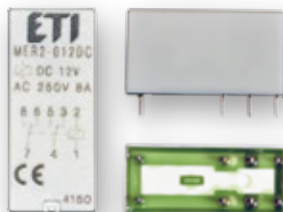


Plug-in socket MERB



Protecting module ERC

\* All parts must be ordered separately



MERB-T



MERB-M

#### Miniature electromagnetic relays

Type	Code	Uc rated coil voltage [V]	No. Of contacts	Weight [g]	Packaging [pcs]
MER2-005DC	002473030	5 V DC	2xCO (8A, AC1)	13	20/1000
MER2-012DC	002473031	12 V DC			
MER2-024DC	002473032	24 V DC			
MER2-024AC	002473033	24 V AC			
MER2-230AC	002473034	230 V AC			

By parallel connection of relay main circuit (joining 2 CO contacts), the nominal current of output is increased to 16A.

Other coil (control) voltages available upon special request:

V DC: 3, 6, 9, 18, 36, 48, 60, 110

V AC: 12, 48, 60, 110, 115, 120, 220, 240

#### Ordering designation

MER2-YYYYY

X – Number of contacts:

2: 2 CO (2 changeover)

YYYYY – Coil code:

024AC: 24 V AC 50/60 Hz

230AC: 230 V AC 50/60 Hz

005DC: 5 V DC

012DC: 12 V DC

024DC: 24 V DC

Example:

MER2-024DC

Miniature electromagnetic relay, two changeover contacts, coil voltage 24 V DC.

#### Plug-in Sockets (Base)

Type	Code	For use with	Single product weight [g]	Packaging [pcs]
MERB-T	002473035	MER2	44	10/100
MERB-M	002473036			10/80

T - T type

M - M type



## Electromechanical Relays

## Accessories

Type	Code	For use with	Single product weight [g]	Packaging [pcs]
MER-CLIP-SP	002473037	MERB-T & MERB-M	0,3	25/400
MER-CLIP-PL	002473038		0,34	10/700
MER-PLATE	002473039			
ERC-024AC	002473019	MER2-024AC	2,6	10/200
ERC-230AC	002473020	MER2-230AC		
ERC-024ACDCL	002473040	MERB-T & MERB-M $U_c = 6 \dots 24 \text{ V AC/DC}$	2,9	20/100
ERC-060ACDCL	002473041	MERB-T & MERB-M $U_c = 24 \dots 60 \text{ V AC/DC}$	2,9	20/100
ERC-230ACDCL	002473042	MERB-T & MERB-M $U_c = 110 \dots 230 \text{ V AC/DC}$	2,9	20/100

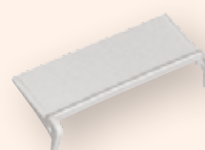


MER-CLIP-PL

Mechanical lock of relay in socket, two types  
Standard plastic MS and spring wire type



MER-CLIP-SP

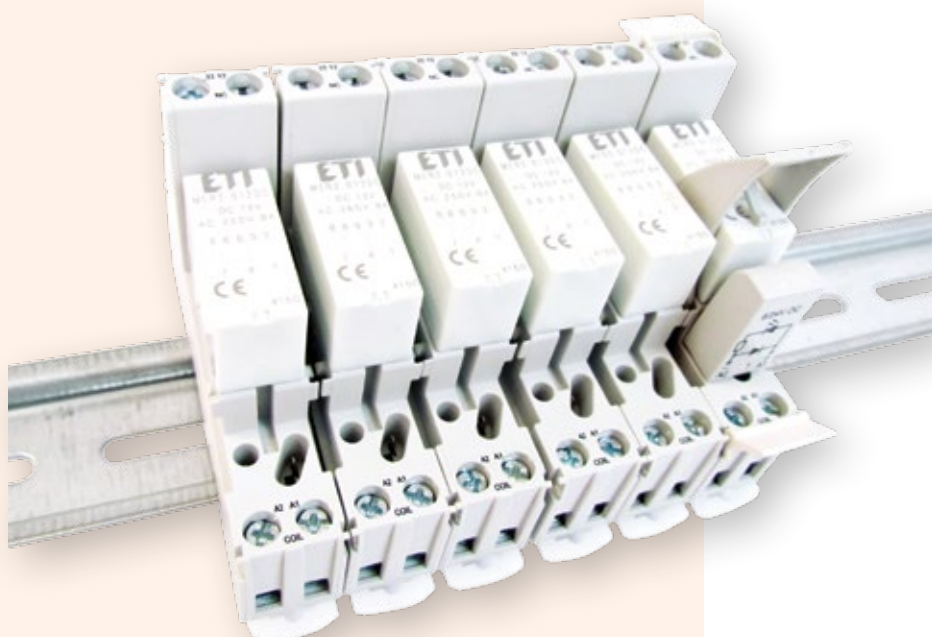
MER-PLATE  
description

ERC-(024...230)ACDCL

MOV protection module with indication AC and DC.  
\*More data about ERC module can be found on page 163.

ERC  
protection module  
RC filter

\*More data about ERC module can be found on page 163.



## SLIM RELAYS SSR &amp; SER, Electromagnetic and solid

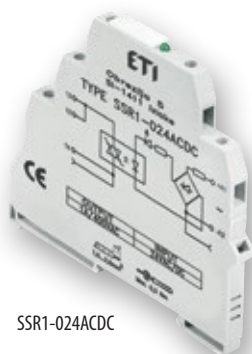
New!

## Advantages:

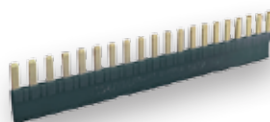
- Width 6,2 mm;
- Interface relay SER1 - with 1 CO contact output;
- 35 mm rail mount acc. to PN-EN 60715;
- May be linked with interconnection strip type
- SR-TERMINAL;
- Equipped in LED green;



SER1-024ACDC



SSR1-024ACDC



SR-TERMINAL

## Mounting

Relays are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715. Connections: max. cross section of the cables: 1 x 2,5 mm<sup>2</sup> / 2 x 1,5 mm<sup>2</sup> (1 x 14 / 2 x 16 AWG), length of the cable deinsulation: 8 mm, max. tightening moment for the terminal: 0,3 Nm. Relays may be linked with interconnection strip type SR-TERMINAL bridges common input or output signals, maximum permissible current is 36 A / 250 V AC.

## Electromagnetic relays

Type	Code	Uc rated coil voltage [V]	No. Of contacts	I <sub>n</sub> [A]	Weight [g]	Packaging [pcs]
SER1-024ACDC	002473052	24 V AC/DC	1xCO	AC1: 6 A / 250 V	40	10/100
SER1-230ACDC	002473053	230 V AC/DC		DC1: 6A/24V; 0,15A/250V		

## Solid state relay (triac output)

Type	Code	Uc rated coil voltage [V]	No. Of contacts	I <sub>n</sub> [A]	Weight [g]	Packaging [pcs]
SSR1-024ACDC	002473050	24 V AC/DC	1xNO	AC1: 1,2 A/400 V	40	10/100
SSR1-230ACDC	002473051	230 V AC/DC				

## Accessories

Type	Code	Colour	Description	Weight [g]	Packaging [pcs]
SR-TERMINAL	002473054	black	max 36A (250VAC) or Max permissible current	12,3	10/100



SR-TERMINAL: bridging of common input or output signals