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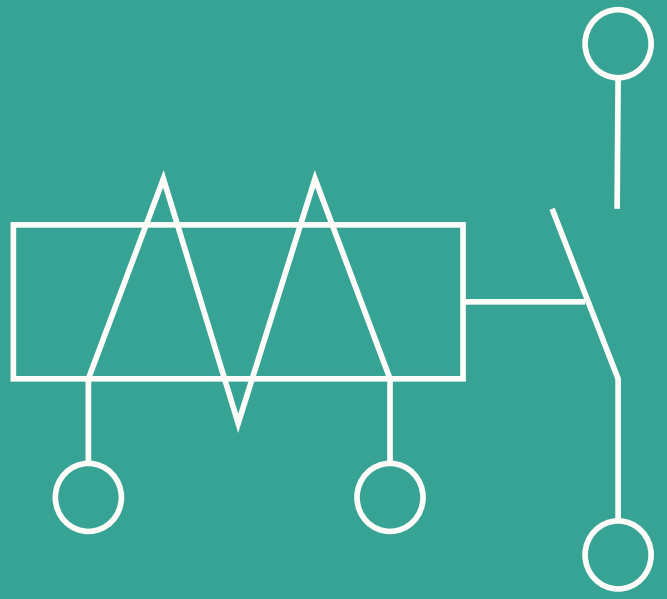
Relay technology



in a short brief.....

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Reliability – Availability
and durability... SAFELY

Who we are.....

MARRÉ one of the leading designer and supplier of relay modules for critical / vital applications. We are expert for the development and production of assemblies and systems incorporating safety critical electromechanical components.

The firm is an owner-managed company located in Rietberg (Ostwestfalen in central Germany). We have 35+ years of experience in the design and supply of safety-critical assemblies for rail automation, rail vehicles, process controls and turbofan engine test facilities which provides us the knowhow to provide a wide range of solid and creative solutions.

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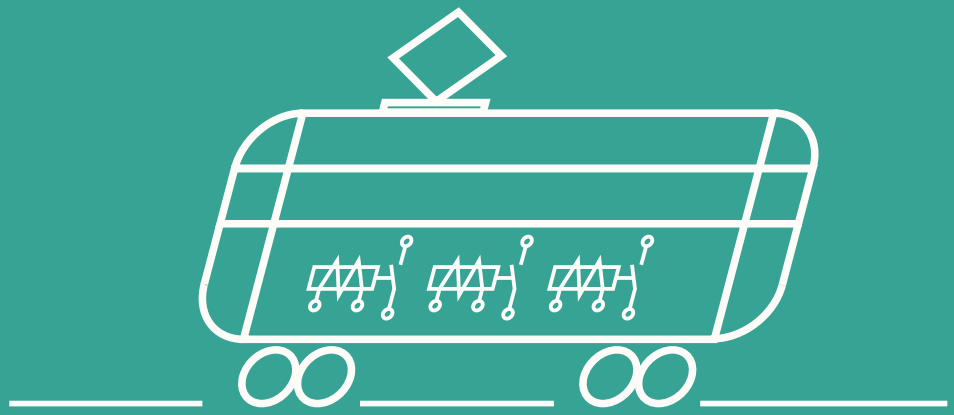
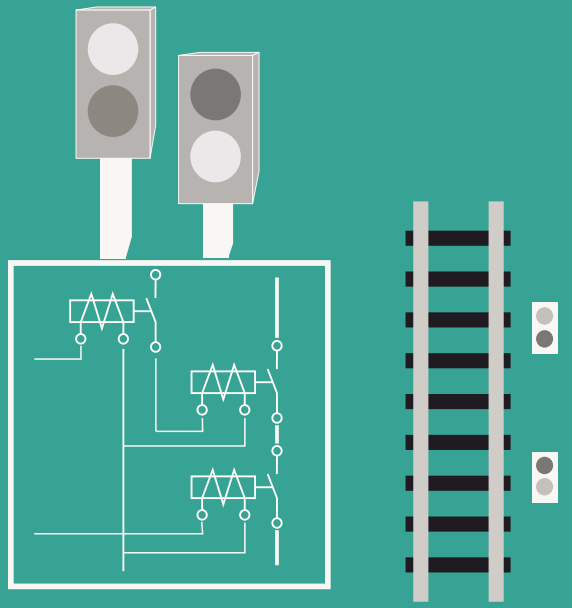


Rolling stock.....



wayside installations.....
.....interlocking

SRM Safety relay modules for secure control functions for railway vehicle ETCS, control units for brake systems, etc.

SRM Safety relay modules for secure signal coupling in point control units and automatic train protection (ATP) systems.

Reliability
Availability

! SAFE

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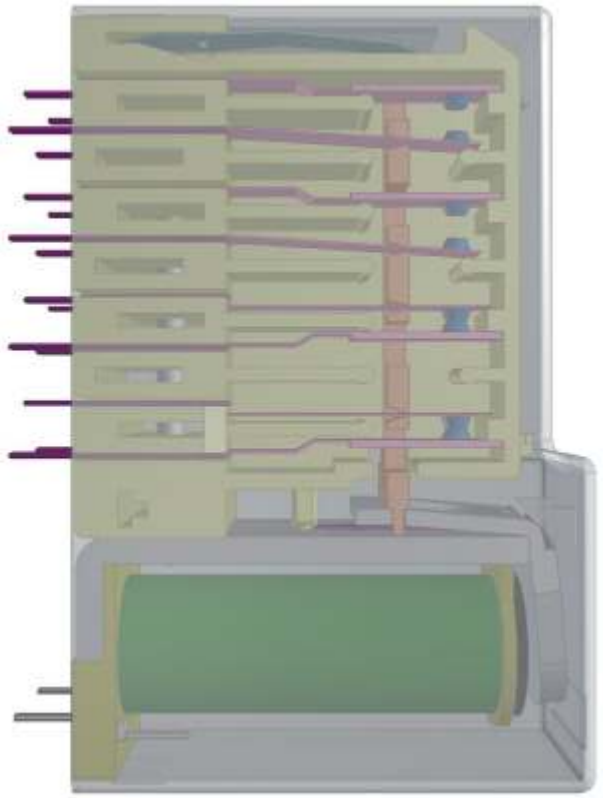
The Relay

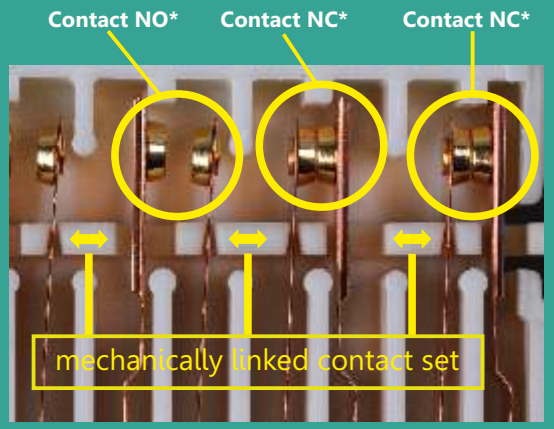


EN 61810-3 Electromechanical elementary relays -
Part 3: Relays with forcibly guided (mechanically linked) contacts

former DIN EN 50205 type A

Definition of simple and safe

Relays for railway applications with force guided contacts for vital related functions



Standard Contact material for Railway applications AgSnO + 5µm Au**

*Contact position shows relay drive deenergized

** H-462,H-464, H-466

In Relays with forcibly guided or weeld-no-transfer contacts, special design and constructional measures are used to ensure that make normally open-contacts can not assume the same state as normally close-contacts.
If, when powering up the relay, a nc contact fails to open, the remaining no contacts must not close, maintaining a contact gap > 0.5mm.
When the relay is deenergized, if a no-contact fails to open, the remaining nc-contact must not close, maintaining a contact gap >0.5mm.
The EN 61810-3 requirement descripes the obove behavior for relays with forcibly guided contacts.
The standard also defines two types.
Type A: Relay whose contacts are all mechanically linked.
Type B: Relay containing mechanically linked contacts and contacts which are not mechanically linked.
In the case of relays that include changeover contacts, either the make circuit or break circuit of a changeover contact can be considered to meet requirements of this standard.

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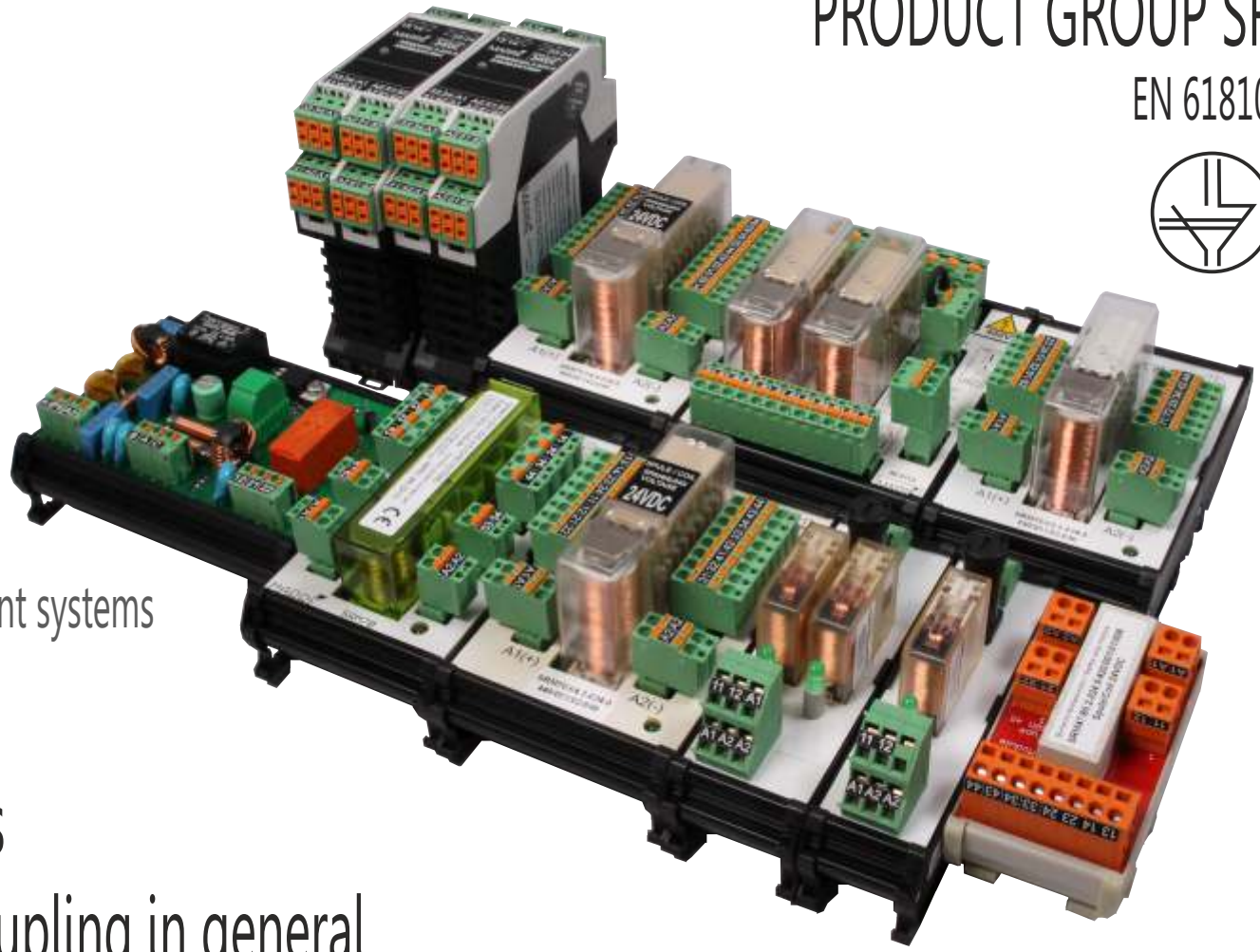
PRODUCT GROUP SRM

EN 61810-3

- Door operation
- Brake systems
- Safety loop
- Pantograph control
- Lights and climate control
- Battery charge control
- Traction systems
- Rail traffic safety management systems (ERTMS, SCMT, ATS, etc.)



SRM series modules
for secure signal coupling in general

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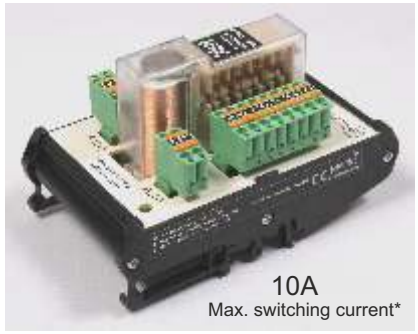
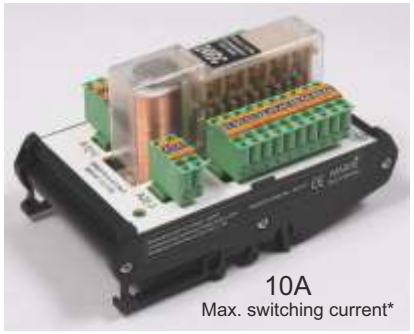
PRODUCT GROUP SRM
EN 61810-3

SRM70 series — Instantaneous, monostable - latching





SRM70/62.1 / 4 Contacts	SRM70/62.2 / 6 Contacts	SRM70/64.3 / 8 Contacts	SRM70/64.4 / 10 Contacts
Contact configuration **4 contacts** (2xno-2xnc) (3xno-1xnc) **Standard contact material** **AgSnO + 5µm Au**	Contact configuration **6 contacts** (3xno-3xnc) (4xno-2xnc) **Standard contact material** **AgSnO + 5µm Au**	Contact configuration **8 contacts** (4xno-4xnc) (5xno-3xnc) (3xno-5xnc) (6xno-2xnc) **Standard contact material** **AgSnO + 5µm Au**	Contact configuration **10 contacts** (5xno-5xnc) (6xno-4xnc) (8xno-2xnc) **Standard contact material** **AgSnO + 5µm Au**

* Check datasheet

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

RoHS Compliant

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PRODUCT GROUP SRM
EN 61810-3

SRM70 series — Instantaneous, monostable

8/16A
Max. switching current*

SRM70/SIP / 6 Contacts ***POWER***

Contact configuration

6 contacts

(3xno-3xnc)
(4xno-2xnc)
(5xno-1xnc)
POWER*

Standard contact material
AgCuNi + 0.2 -0.4μm Au

* Check datasheet

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

RoHS Compliant

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PRODUCT GROUP SRM

SRM35 series

Instantaneous, monostable - latching

EN 61810-3

SRM35/62.1 / 4 Contacts	SRM35/62.2 / 6 Contacts	SRM35/64.3 / 8 Contacts
Contact configuration **4 contacts** (2xno-2xnc) (3xno-1xnc) **Standard contact material** **AgSnO + 5µm Au**	Contact configuration **6 contacts** (3xno-3xnc) (4xno-2xnc) **Standard contact material** **AgSnO + 5µm Au**	Contact configuration **8 contacts** (4xno-4xnc) (5xno-3xnc) (3xno-5xnc) (6xno-2xnc) **Standard contact material** **AgSnO + 5µm Au**

* Check datasheet

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

RoHS Compliant

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PRODUCT GROUP SRM

SRM40 series — Instantaneous, monostable latching

10A
Max. switching current*

SRM40/62.1 / 4 Contacts

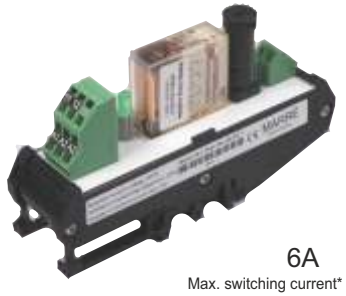
SRM40 series Contact configuration

4 contacts

(2xno-2xnc)
(3xno-1xnc)

Standard contact material
AgSnO + 5µm Au

SRM40 series — Instantaneous, monostable — EN 61810-3



6A
Max. switching current*

SRM40/69.1 / 2 Contacts

SRM40 series Contact configuration

2 contacts

(1xno-1xnc)

Standard contact material
AgSnO + 5µm Au

* Check datasheet

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

RoHS Compliant

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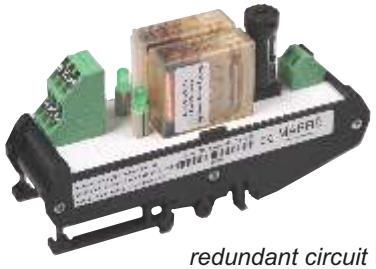
PRODUCT GROUP SRM

EN 61810-3

SRM45/69.1 series

Instantaneous, monostable



redundant circuit

6A
Max. switching current*

SRM40/69.1 / 2x 2 Contacts	SRM47/80.1 / 6 Contacts
SRM40 series Contact configuration	SRM47 series Contact configuration
4 contacts	**6 contacts**
(2xno-2xnc) (3xno-1xnc)	(4xno-2xnc)
Standard contact material **AgSnO + 5µm Au**	**Standard contact material** **AgSnO + 2µm Au**

* Check datasheet

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

RoHS Compliant

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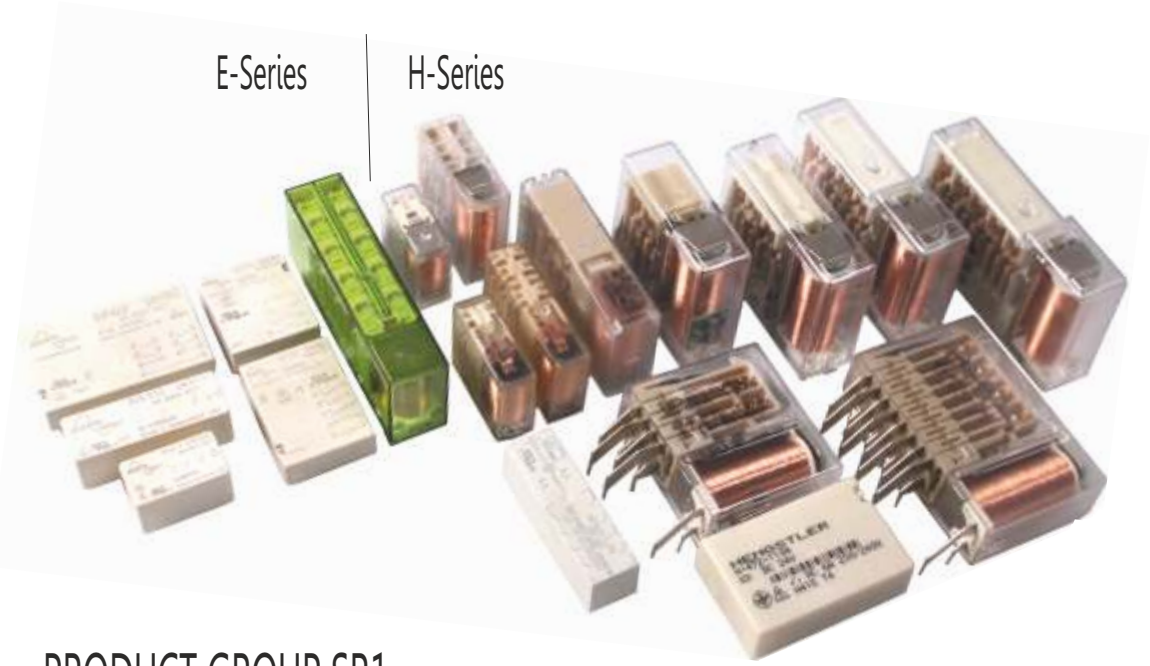

PRODUCT GROUP SR1

PRODUCT GROUP SR1 SR2

EN 61810-3

A-Series

authorized Partner

AMRA

PRODUCT GROUP SR2

Relays for railway applications with force guided contacts

IAW EN 61810-3

High immunity to interference
High switching reliability
Magnetic arc blow-out as standard
Excellent shock and vibration resist
Deterministic error behavior

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PRODUCT GROUP SR1

E-Series | H-Series

EN 61810-3

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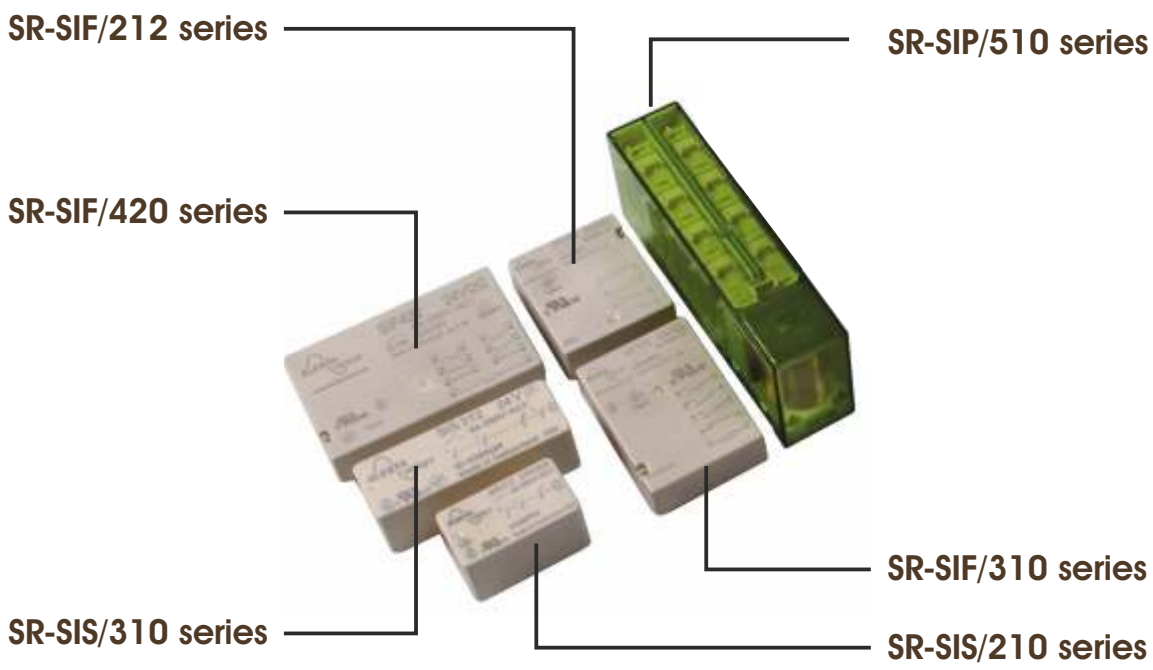
PRODUCT GROUP SR1

E-Series

EN 61810-3



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PRODUCT GROUP SR1

E-Series

Instantaneous, monostable

EN 61810-3

6.0A

6.0A

8.0A

6.0/12.0A

6.0/16.0A

SR-SIS 2 series

Contact configuration

2 contacts

110 (1xno-1xnc)

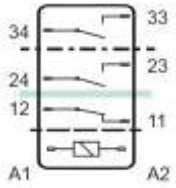
Drive DC (coil voltage)
12, 24, 48, 60VDC

*Standard contact material
AgCuNi + 0.2 -0.4µm Au

SR-SIS 2 series

Contact configuration

3 contacts



210 (2xno-1xnc)

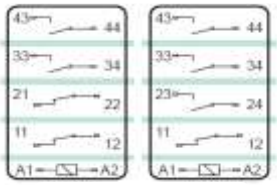
Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

*Standard contact material
AgCuNi + 0.2 -0.4µm Au

SR-SIF 4 series

Contact configuration

4 contacts



220 (2xno-2xnc) 310 (3xno-1xnc)

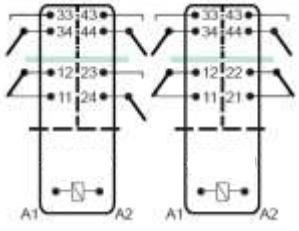
Drive DC (coil voltage)
12, 24, 36, 48, 110VDC

*Standard contact material
AgCuNi + 0.2 -0.4µm Au

SR-SIR 4 P series

Contact configuration

4 contacts



330 (3xno-3xnc) 330 (3xno-3xnc)

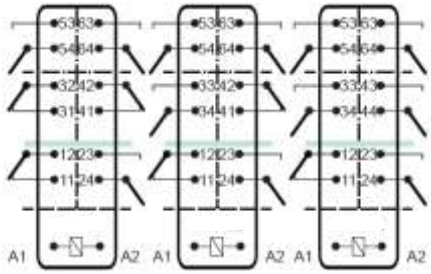
Drive DC (coil voltage)
12, 24, 48, 60, 110VDC

*Standard contact material
AgCuNi + 0.2 -0.4µm Au

SR-SIP 6 series

Contact configuration

6 contacts



330 (3xno-3xnc) 420 (4xno-2xnc) 510 (5xno-1xnc)

Drive DC (coil voltage)
12, 24, 48, 60, 110VDC

*Standard contact material
AgCuNi + 0.2 -0.4µm Au

RoHS Compliant

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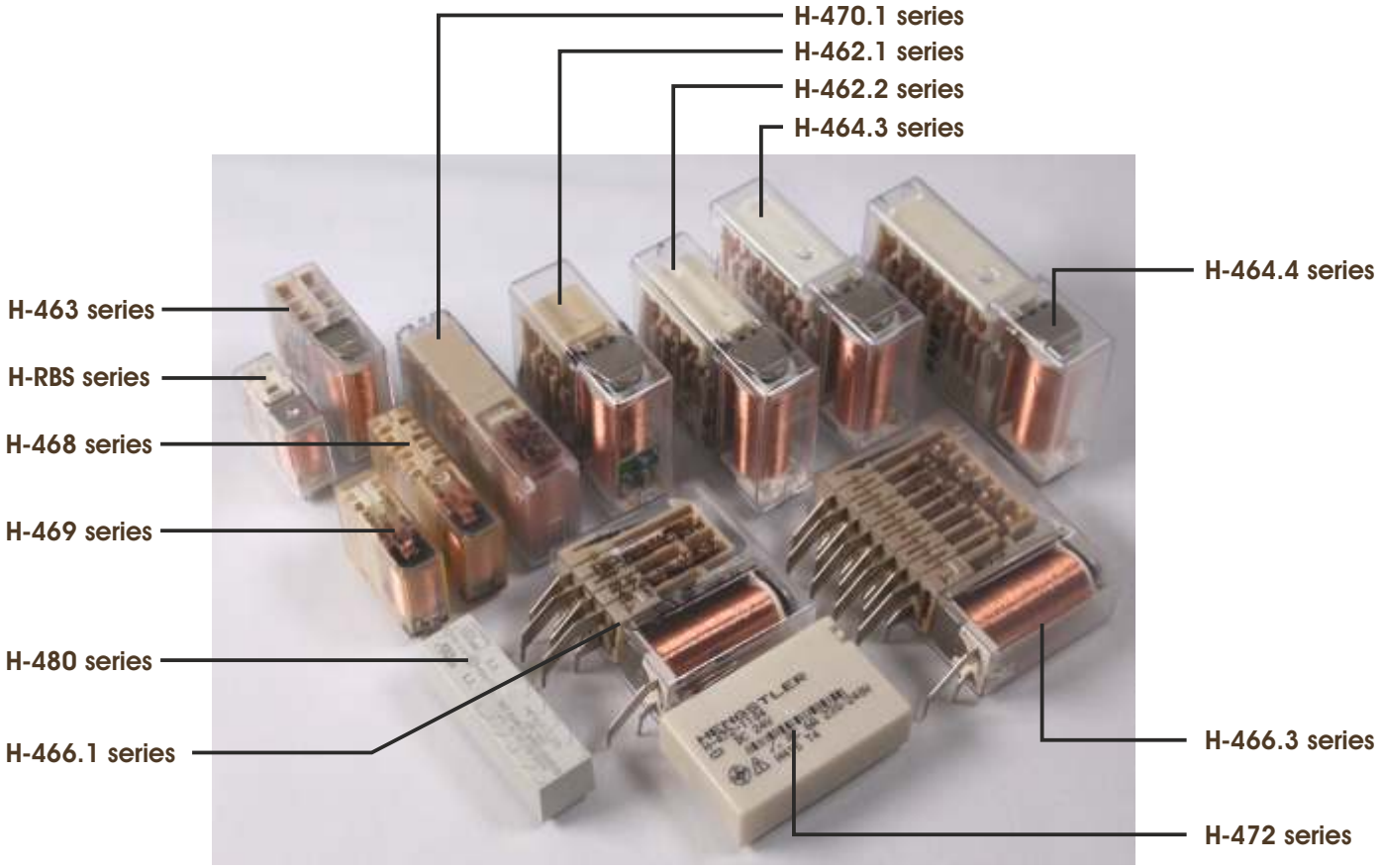
PRODUCT GROUP SR1

H-Series

EN 61810-3



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PRODUCT GROUP SR1

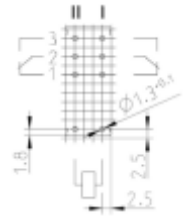
H-Series

Instantaneous, monostable

EN 61810-3

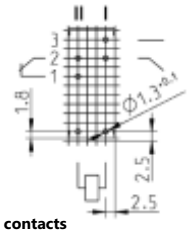
H-RBS series

Contact configuration



2 contacts

002 (2xco)



2 contacts

110 (1xno-1xnc)

Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

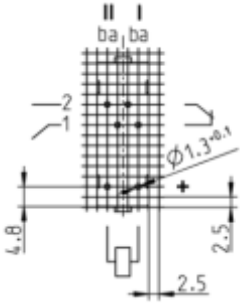
Standard contact material
AgSnO + 2µm Au

H-469 series

Contact configuration

2 contacts

110 (1xno-1xnc)



Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

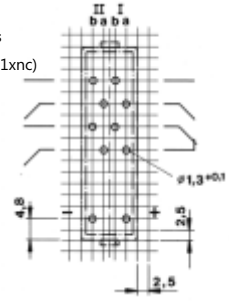
Standard contact material
AgSnO + 2µm Au

H-468 series

Contact configuration

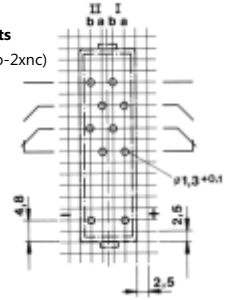
4 contacts

310 (3xno-1xnc)



4 contacts

220 (2xno-2xnc)



Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

Standard contact material
AgSnO + 2µm Au

RoHS Compliant

MARRÉ

PRODUCT GROUP SR1

H-Series

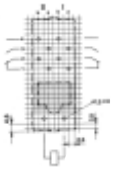
Instantaneous, monostable - latching

EN 61810-3

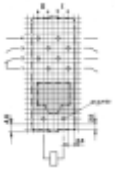
H-462.1 series
H-462.2 series

Contact configuration

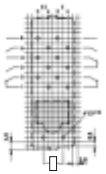
4 contacts
220 (2xno-2xnc)



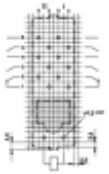
4 contacts
310 (3xno-1xnc)



6 contacts
330 (3xno-3xnc)



6 contacts
420 (4xno-2xnc)



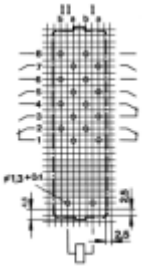
Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

Standard contact material
AgSnO + 5µm Au

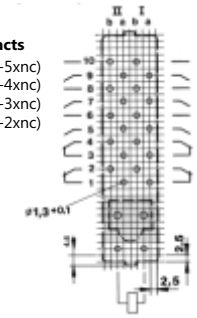
H-464.3 series
H-464.4 series

Contact configuration

8 contacts
440 (4xno-4xnc)
350 (3xno-5xnc)
530 (5xno-3xnc)
260 (2xno-6xnc)
620 (6xno-2xnc)



10 contacts
550 (5xno-5xnc)
640 (6xno-4xnc)
730 (7xno-3xnc)
820 (8xno-2xnc)

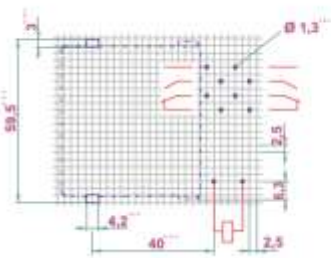


Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

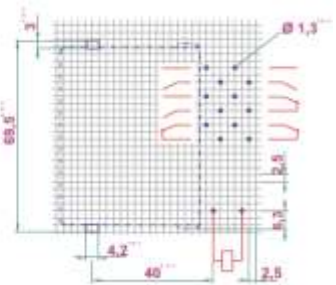
Standard contact material
AgSnO + 5µm Au

H-466.1 series
H-466.2 series

Contact configuration



4 contacts 220 (2xno-2xnc)



6 contacts 330 (3xno-3xnc)

Drive DC (coil voltage)
12, 24, 36, 48, 72, 110VDC

Standard contact material
AgSnO + 5µm Au

RoHS Compliant

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PRODUCT GROUP SR1

H-Series

Instantaneous, monostable

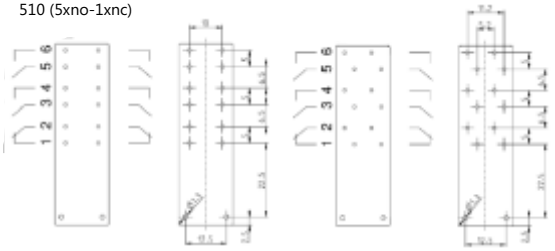
EN 61810-3

H-480 series

Contact configuration

6 contacts

420 (4xno-2xnc)
510 (5xno-1xnc)



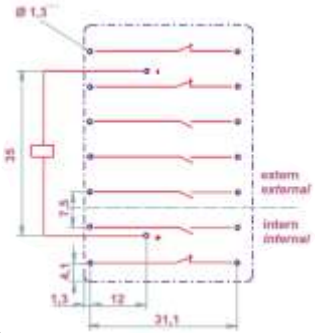
Drive DC (coil voltage)
12, 24, 48,110VDC

H-472 series

Contact configuration

7 contacts

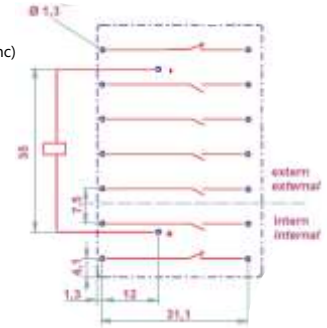
430m (4xno-3xnc)



Drive DC (coil voltage)
12, 24, 48,110VDC

7 contacts

520m (5xno-2xnc)



Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgSnO + 5µm Au

RoHS Compliant

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PRODUCT GROUP SR2

A-Series

Instantaneous, monostable

EN 61810-3

Compact instantaneous plug-in relays
with 2 contacts, 5 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

Type RCG 2 C/O - 10 A

Compact instantaneous plug-in relays
with 2 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

Type RDG 4 C/O - 10 A

Compact instantaneous plug-in relays
with 4 contacts, 5 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

Type RGG 4 C/O - 12 A

Compact instantaneous plug-in relays
with 4 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

Type RMGX 6 C/O + 2 NC - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

***Standard contact material**
AgCuNi

****Standard contact material**
AgSnO

RoHS Compliant

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PRODUCT GROUP SR2

A-Series

Instantaneous, monostable

EN 61810-3

Forcibly guided contacts (weld-no-transfer),
test method according NF F62-002 (§12.3.10)
Instantaneous plug-in relays with 8 changeover contacts, 12 A
Can be used for safety applications, suitable for rolling stock
Very high electrical life expectancy, exceptional endurance,
optional magnetic arc blow-out
Self-cleaning knurled contacts

Type RMGW 8 C/O - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

****Standard contact material**
AgSnO

RoHS Compliant

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PRODUCT GROUP RR

EN 61810-1

- Instantaneous, monostable
- Latching
- Trip relay, monostables and latching
- Time delayed, pick-up, drop-out, logic
- Measurement

High immunity to interference
High switching reliability
Magnetic arc blow-out as standard
Excellent shock and vibration resistance

PRODUCT GROUP RR (Railway Relay)

authorized Partner

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PRODUCT GROUP RR

A-Series — Instantaneous, monostable — EN 61810-1

Compact instantaneous plug-in relays
with 2 contacts, 5 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type POK 2 C/O - 5 A

Compact instantaneous plug-in relays
with 2 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type POKS 2 C/O - 10 A

Compact instantaneous plug-in relays
with 4 contacts, 5 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type BIPOK 4 C/O - 5 A

Compact instantaneous plug-in relays
with 4 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type BIPOKS 4 C/O - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2µm Au

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Instantaneous, monostable — EN 61810-1

Compact instantaneous plug-in relays
with 6 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type TRIPOK 6 C/O - 5 A

Compact instantaneous plug-in relays
with 6 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type TRIPOKS 6 C/O - 10 A

Compact instantaneous plug-in relays
with 8 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type QUADRIPOK 8 C/O - 10 A

Compact instantaneous plug-in relays
with 12 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance,
suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type ESAPOK 12 C/O - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2µm Au

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Latching — EN 61810-1

Instantaneous bistable plug-in relays
with 3 or 4 contacts, 12 A
Automatic de-energization following operation, magnetic latch
Solid and rugged construction for intensive duty
Very high electrical life expectancy and exceptional endurance
Self-cleaning knurled contacts

MOUNTING ACCESSORIES on request

Type RGB 3-4 C/O - 12 A

Compact instantaneous plug-in relays
with 6 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance, suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type RMBX 7 C/O o 8 C/O - 10 A

Compact instantaneous plug-in relays
with 8 contacts, 10 A
Magnetic arc blow-out as standard
Excellent shock and vibration resistance, suitable for rolling stock
Option available for use in geothermal sites

MOUNTING ACCESSORIES on request

Type RMB 7 to 20 C/O - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2μm Au

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Instantaneous, monostable — EN 61810-1

Plug-in relays with 4 instantaneous contacts, 10 A
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OK 4-8-12 C/O - 10 A

Plug-in relays with 4 instantaneous contacts, 10 A
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKS 4-8-12 C/O - 10 A

Plug-in relays with 4 instantaneous contacts, 10 A
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKFC 4-8-12 C/O - 10 A

Plug-in relays with 4 instantaneous contacts, 10 A
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKSFC 4-8-12 C/O - 10 A

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Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2µm Au

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Instantaneous, monostable — EN 61810-1

Plug-in relay with 4 instantaneous contacts, 10 A, with **magnetic arc blow-out**
Suitable for rolling stock applications
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance, suitable for rolling stock
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKUIC 4 C/O - 10 A

Plug-in relays with 4 instantaneous contacts, 10 A
Magnetic arc blow-out and silver cadmium oxide contacts
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKSCD 4 C/O - 10 A

Plug-in relay with 4 instantaneous contacts, 10 A, with **magnetic arc blow-out**
Suitable for rolling stock applications
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance, suitable for rolling stock
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKSGCCd 4 C/O - 10 A

Plug-in relays with 4 instantaneous contacts, 10 A
Magnetic arc blow-out and silver cadmium oxide contacts
Solid and rugged construction for intensive duty, 100,000,000 operations
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

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Type OKB184 4 C/O - 10 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2µm Au

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Latching — EN 61810-1

Plug-in bistable relay with 4 contacts, 10 A,
with **magnetic arc blow-out**
Solid and rugged construction for intensive duty
Automatic de-energization following operation, magnetic latch
Excellent shock and vibration resistance
Ample clearance between open contact elements, 5 kV insulation

MOUNTING ACCESSORIES on request

Type OKBA 4-8 C/O - 10 A

authorized Partner

AMRA

Drive DC (coil voltage) 12, 24, 36, 48, 58, 72, 110VDC	**Standard contact material** **AgCdO**	**on request** **Standard contact material** **AgCdO + 2µm Au**

RoHS Compliant

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PRODUCT GROUP RR

A-Series Trip relay, monostables and latching

EN 61810-1

Monostable plug-in trip relays, fast acting,
with 6 contacts, 5 A
4 models for various contact configurations
Switching time < 6ms, bounces included
Solid and rugged construction for intensive duty,
exceptional endurance

MOUNTING ACCESSORIES on request

Type RV LV16 6 NO/NC - 5 A

Trip relays, with reduced switching times (e.g. <10ms) compared to standard relays (e.g. < 20ms).

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Drive DC (coil voltage)	**Standard contact material**	**on request**
12, 24, 36, 48, 58, 72, 110VDC	**AgCdO**	**Standard contact material AgCdO + 2µm Au**

RoHS Compliant

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PRODUCT GROUP RR

A-Series — Time delayed, pick-up, drop-out, logic — EN 61810-1

Multifunction plug-in relays with time delay
2 timer contacts + 2 instantaneous contacts, 10 A
10 programmable time delay functions
Time setting from 0.1s to 99.9h, by means of rotary-switch preset controls
Excellent shock and vibration resistance, suitable for rolling stock

MOUNTING ACCESSORIES on request

Type TMM2 2 IS + 2T C/O - 10 A

The contacts change status with time delay T with respect to the energization or de-energization of the relay input circuit. Logical function relays can be used for various functions, including CYCLIC, ONE-SHOT, etc.

Multifunction plug-in relays with time delay
4 timer contacts, 10 A
10 programmable time delay functions
Time setting from 0.1s to 99.9h,
by means of rotary-switch preset controls
Excellent shock and vibration resistance, suitable for rolling stock

MOUNTING ACCESSORIES on request

Type TMM4 4 C/O - 10 A

Plug-in relay with **time delay on pick-up**
2 timer contacts + **2 instantaneous contacts**,
5 A (TM2E) or 10 A (TMS2E)
Time setting from 0.1s to more than 9 hours
by means of dip switches
Excellent shock and vibration resistance, suitable for rolling stock

MOUNTING ACCESSORIES on request

Type TM2E TMS2E 2 IS+ 2T C/O - 5 A

Plug-in relay with **time delay on pick-up**
4 timer contacts, 5 A (TM4E) or 10 A (TMS4E)
Time setting from 0.1s to more than 9 hours
by means of dip switches
Excellent shock and vibration resistance

MOUNTING ACCESSORIES on request

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Type TM4E TMS4E 4 C/O - 5 A

Drive DC (coil voltage)
12, 24, 36, 48, 58, 72, 110VDC

Standard contact material
AgCdO

on request
Standard contact material
AgCdO + 2μm Au

RoHS Compliant

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Standards.....Requirements

Railway applications
Fire protection in railway vehicles **DIN EN 45545**-2:2018-11
Part 2: Requirements for fire behavior of materials and components.

Railway application – Direct Current Signaling Relay
DIN EN 50578;
VDE 0831-578:2013-12
VDE 0831 – 578:2013-12

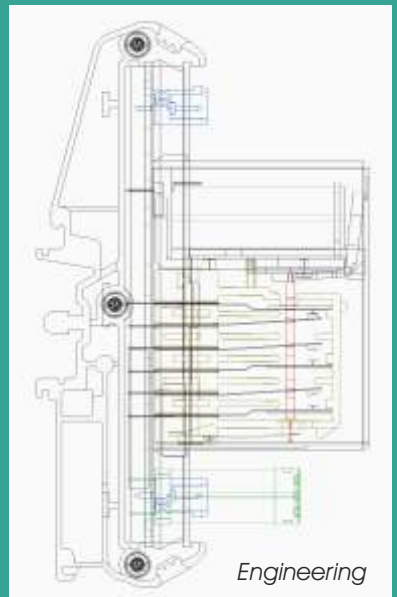
Railway applications – Rolling Stock Equipment; shock and vibration tests **DIN EN 61373:2011-04**
VDE 0115-106:2011-04

Railway applications
Electromagnetic compatibility **EN 50121-3-2**
Part 3-2: Rolling stock - Apparatus

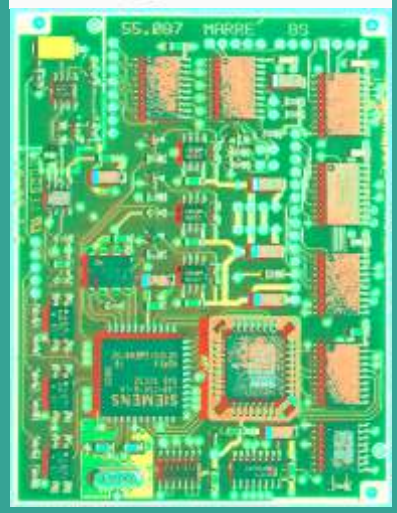
Railway applications
Insulation coordination. **EN 50124-1**
Basic requirements. Clearances and creepage distances for all electrical and electronic equipment

Railway applications
Rolling stock - Electronic equipment. **EN 50155:2018-05**

Railway applications
Electric equipment for rolling stock - Part 1: General service conditions and general rules. **EN 60077-1:2015-12**



Engineering



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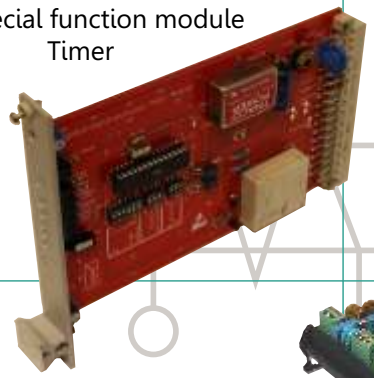
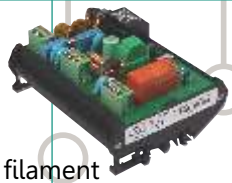
Engineering around the relay

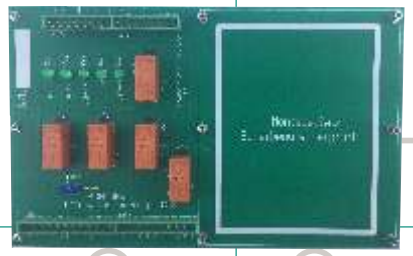
customized Modules.....

Special function module
Timer

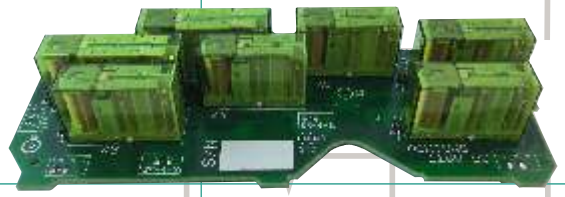




Bulb filament
monitor module

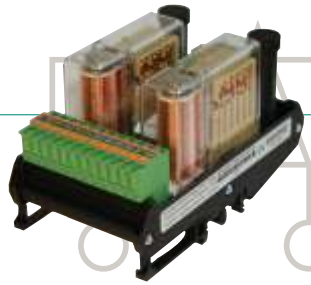


Signal Light controller



Switchgear controller

Emergency brake interface module
2-channel with comperator



Special function module
for ETCS

Special function module
for AWS

Contactor

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Inquiry - relay requirements

Email info@marre.de

Contact arrangement:
EN 61810-1

_____ NO (normally open)

_____ NC (normally close)

Contact arrangement:
EN 61810-3

_____ NO (normally open)

_____ NC (normally close)

Contact material:

_____ AgSnO

_____ AgSnO + 2µm Au

_____ AgSnO + 5µm Au

_____ AgCdO

_____ AgCdO + 2µm Au

_____ AgCuNi

Switching voltage: _____ AC _____ DC

Switching current: _____ Amp

Load type: _____ resistive _____ inductive

Coil supply: _____ Volt _____ AC _____ DC

_____ Instantaneous, monostable

_____ Latching

Ambient temperature: _____ centigrade

Application: _____ Rolling stock

_____ Wayside installation

_____ other

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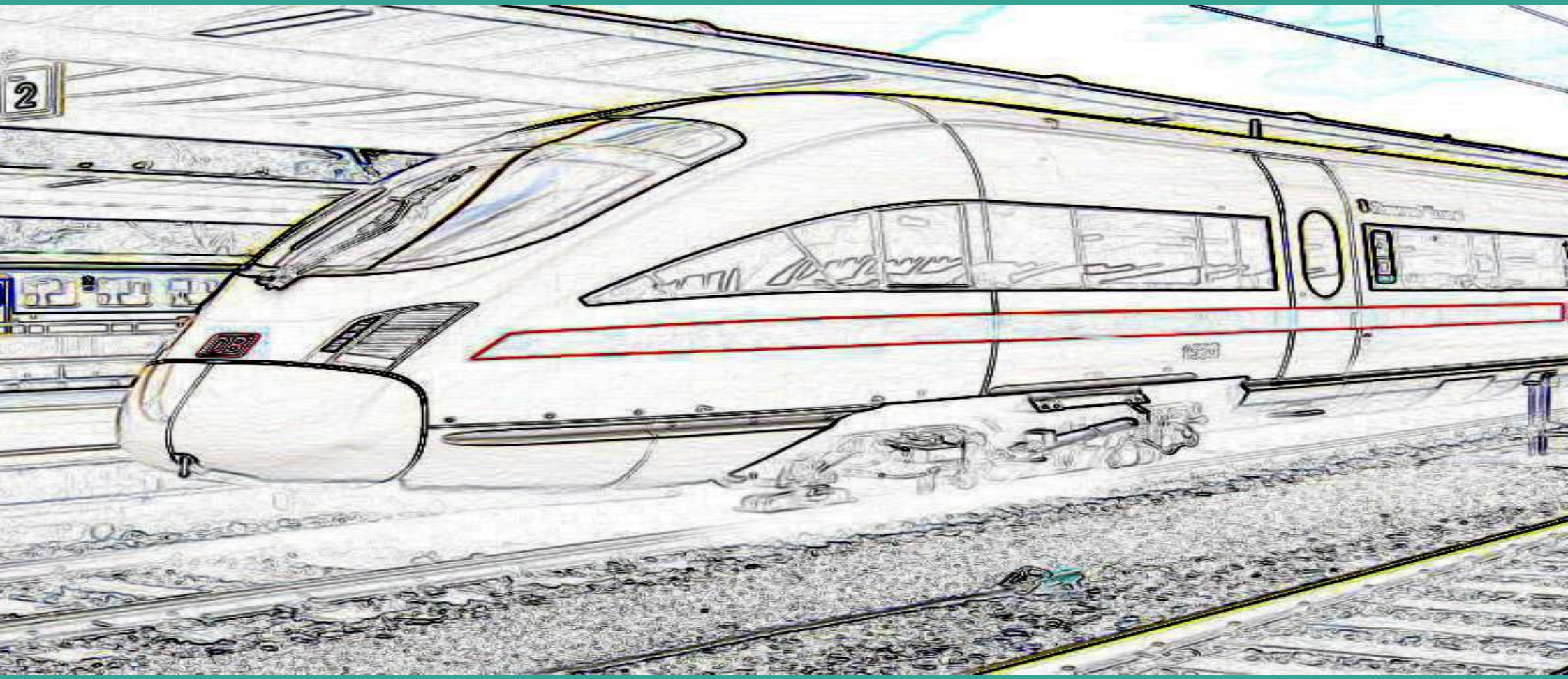
Made in Germany



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