

# Contactors

R400 series

High-voltage relays for test benches

Flyer R400.en





### R400 High-voltage relays for test benches

The new, compact R400 high-voltage relay has been specially developed for use in test systems. Used there, the relays are required for testing electrical safety. The switching devices isolate all non-active components during the high-voltage and insulation test procedure. As part of the protective conductor test, they switch currents up to a maxi-



**Bi-directional high-voltage relay:** for effortless load disconnection regardless of polarity.

**Contact bridge with solid contacts:** for uniform contacting, consistently low contact resistance and permanently low power dissipation.

**Modularity:** 1 and 2 pole versions. Contact system configurable as normally open or changeover contact.

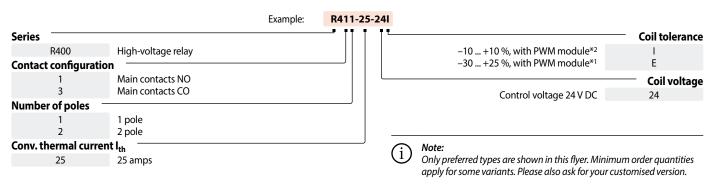
mum of 25 amps to the test object. Another area of application for the small switching device is its use as a precharging relay. This is because the relay is particularly advantageous in smaller traction applications or applications with traction batteries when only low precharging currents need to be switched.

and

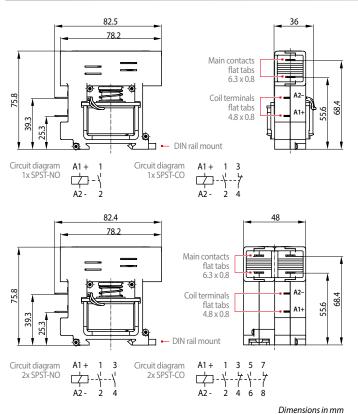
**Coil drive:** with efficient electronic coil control for low pull-in and holding power.

**Easy mounting:** DIN rail mounting according to industry standard. Connections for contact system and coil drive with flat tab terminals.

## **Ordering code**



#### Dimension diagram, circuit diagram



# Specifications

R400 series	1 pole 2 pole
Type of voltage Number of poles, configuration	DC bi-directional 1x SPST-NO/CO 2x SPST-NO/CO
Main contacts       Un         Nominal voltage       Ue         Rated operating voltage       Ue         Rated insulation voltage       Uinp         Rated impulse withstand voltage       Uimp         Pollution degree       Overvoltage category	1,500 V 1,500 V*4 1,500 V 10 kV*2 PD2 OV2
Conv. free air thermal current $$\rm I_{th}$$ Rated short-time withstand current $$\rm I_{cw}$$	25 A*3 @ 4 mm <sup>2</sup> min. 200 A @ t = 20 ms
Magnetic drive Control voltage U <sub>s</sub> Power consumption Pull-in Holding Tolerance IEC 60947-4-1 IEC 60977-2 Electronic coil controller	24 V DC @ 0 40° C <10 W max. @ 0.2 s*2 <1 W*2 -10 +10 % U <sub>s</sub> *2 -30 +25 % U <sub>s</sub> *1 PWM module
Vibration / Shock IEC 61373 Mechanical endurance	Category 1*1 / Class B*1 3,000,000 operating cycles horizontal. vertical
Mounting position Temperatures	(do not mount upside down) 0 °C +40 °C*2
Weight	290 g 350 g

\*1 In preparation \*2 Preliminary data \*3 Higher currents on request \*4 Switching voltage up to 5,000 V on request

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