

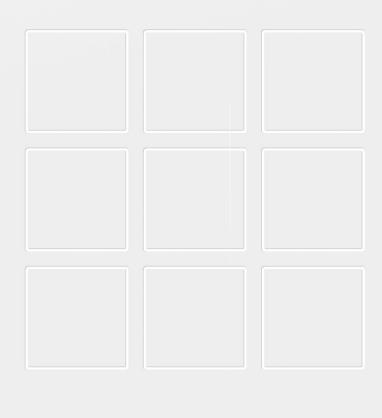


# **Contactors**

**C320 Series** 

1 pole AC and bi-directional DC NO contactors for 1,000 A

Flyer C320.en







### **Preliminary edition**



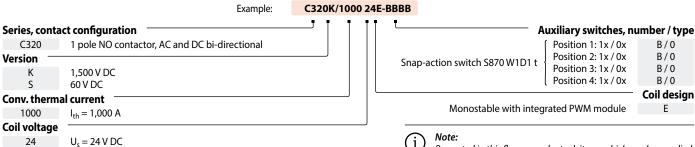
### C320 - 1 pole AC and bi-directional DC NO contactors

The C320 is a single-pole AC and bi-directional DC contactor in the power class up to 1,000 A. It ensures that high loads are switch-off safely and provides reliable protection in the event of a fault in the system. Typical applications are the use as main contactor in battery management systems of high-voltage vehicle batteries, in charging

stations for e-mobility, in battery test benches but also in the DC circuits of inverters of photovoltaic systems. A very efficient ceramic arc chamber, double-break contacts and high breaking capacity are important features of the new contactor.

- Compact dimensions high rated insulation voltage Ui up to 1,500 volts
- High making capacity I<sub>cm</sub> up to 4,000 amps and an excellent breaking capacity
- High thermal continuous current  $I_{th}$  of up to 1,000 amps and high rated short-time withstand current I<sub>cw</sub> up to 5,000 amps
- Full bidirectionality safe disconnection of high power independent of the current flow direction
- 4 auxiliary switches with mirror contact function for diagnosis and switching status monitoring
  - Low energy consumption and low heating thanks to sophisticated coil saving circuit

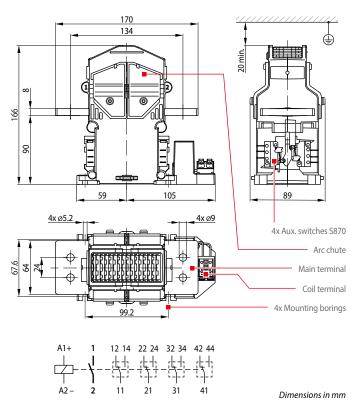
#### Ordering code



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Presented in this flyer are only stock items which can be supplied in short delivery time. For some variants minimum quantities apply. Please ask for your customer-specific version.

### C320K/1000 Dimension diagram, circuit diagram



#### **Specifications**

Type of voltage  Main contacts, configuration		DC, bidirectional / AC ( $f \le 60 \text{ Hz}$ ) 1x NO
Main contacts  Rated operational voltage U <sub>e</sub> @ PD3 Rated insulation voltage U <sub>i</sub> Rated impulse withstand voltage U <sub>imp</sub> Pollution degree Overvoltage category		C320K: 1,500 V / C320S: 60 V 1,800 V 10 kV PD3 OV3
Conventional free air thermal current I <sub>th</sub> Rated short-time withstand current I <sub>cw</sub> Breaking capacity		1,000 A @ T <sub>a</sub> = 85° C 5,000 A / 1 sec 60 operations @ L/R = 0.1 ms, U <sub>e</sub> = 1,500 V, I <sub>e</sub> = 750 A
Auxiliary contacts  Number, configuration Utilization category	EN 60947-5-1	4x max. changeover \$870 AC-15: 230 V AC/1,5 A; DC-13: 60 V DC/0,5 A
Magnetic drive Coil voltage U <sub>s</sub> Coil tolerance		24 V DC 0.7 1.25 x U <sub>s</sub>
Vibration / Shock Mechanical endurance Mounting position Temperatures	IEC 61373	Category 1, Class B 2 million operating cycles horizontal, vertical (do not mount upside down) -40° C +85° C
Weight		approx. 2.8 kg

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