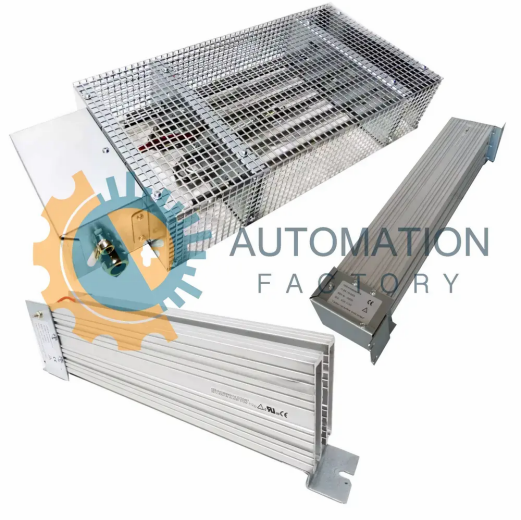
KEB — BR Braking Resistors

09.BR.100-1100



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The **09.BR.100-1100** braking resistor is produced by **KEB** for the BR Braking Resistors series. It serves as an energy-dump device that converts the kinetic energy returned by a decelerating motor into heat, keeping the DC bus of the associated drive within safe voltage limits. The unit is supplied as a single module and mounts inside a control enclosure, making it suitable for conveyors, lifts, and indexing applications that require frequent rapid stops.

The resistor offers a continuous dissipation capacity of **82 W**, meaning it can absorb that thermal load indefinitely without exceeding its temperature class. Its resistance value is **100 Ω**, which matches KEB brake chopper circuitry and produces the required current profile during dynamic braking events. For short duty cycles, it withstands a peak power of **1500 W** for **6 s**, giving the drive additional capacity for emergency braking or high-inertia deceleration. Wiring uses a 2.5 mm² conductor, equivalent to AWG 14, which keeps connection losses low and allows the cabling to carry the calculated RMS current. The device has a **230 V** voltage rating, so its insulation distances and component spacing are suitable for common low-voltage industrial power systems.

Thermal protection is provided by an embedded switch that trips at **160 °C**. Its normally closed contact opens the brake circuit if overheating occurs and can be monitored by the drive for fault processing. The metal enclosure has an ingress protection rating of **IP60**, preventing dust from entering while the enclosure surface dissipates heat through natural convection. Reliable operation is maintained from **-40 °C to 45 °C**, allowing installation in unconditioned industrial panels and climate-controlled production areas. The switch is rated for 250 VAC or 30 VDC at 0.5 A, allowing it to report status through either a relay logic circuit or a low-power PLC input.

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Specifications

Continuous Power:	82 W	**Core Cross-section:**	2.5 mm²	**Core Gauge:**	AWG 14
Ip Rating:	IP60	**Max Ambient Temp:**	45 °C	**Min Ambient Temp:**	-40 °C
Module Count:	1	**Peak On-time:**	6 s	**Peak Power:**	1500 W
Resistance:	100 ?	**Thermojunction Ac Load:**	250 VAC / 0.5 A	**Thermojunction Dc Load:**	30 VDC / 0.5 A
Thermojunction Trip Temp:	160 °C	**Thermojunction Type:**	NC Contact	**Voltage Class:**	230 V
Last Verified:	11/04/2026 9:13 PM				

Contact Us

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Shipping Options

Payment Methods

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