

RXLG braking resistors

Aluminum housed series | 60 W - 9 kW | Custom supply

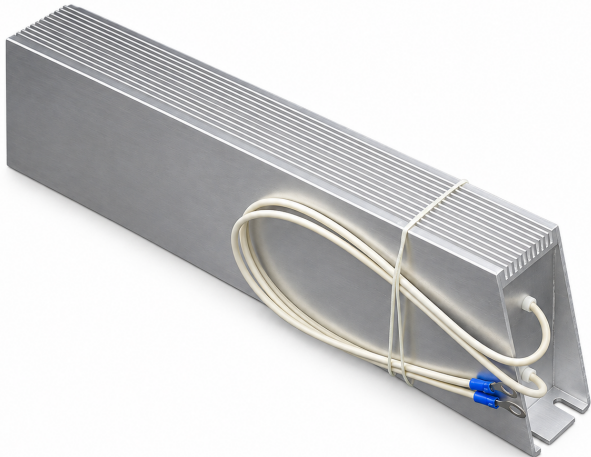
BUILT FOR INDUSTRIAL MOTION APPLICATIONS

Finned aluminum housings for resistor selection in inverter drives, servo systems and power circuits.

This series guide brings dimensions, connection options and ordering information together for specification discussions.

Manufacturing + trading

Custom resistance and installation requirements



01 Series reference

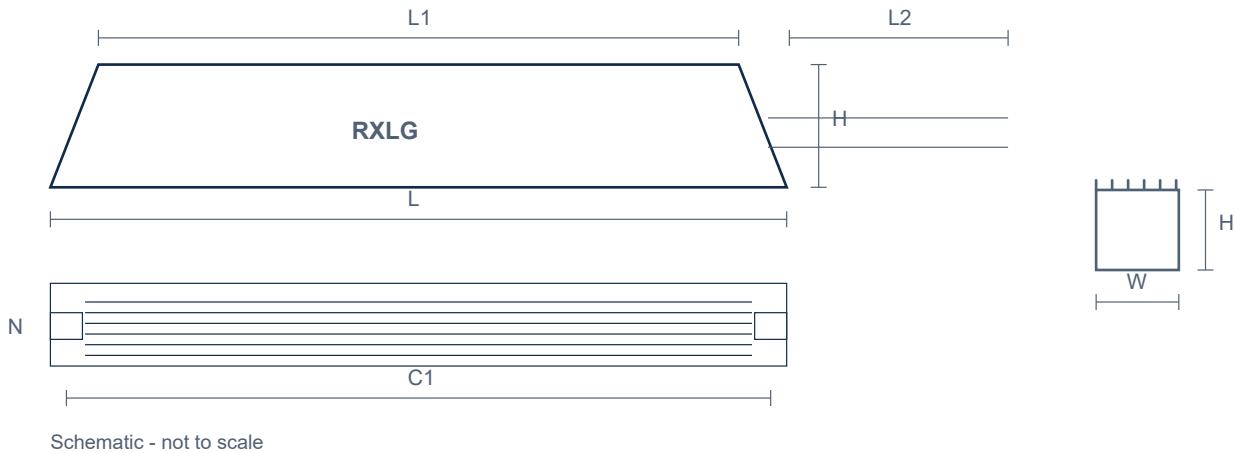
Parameter	Reference value
Catalogue power range	60 W - 9000 W
Series resistance range	0.1 Ω - 30 k Ω ; see variant tables
Dielectric test range	AC 2 kV - 3.5 kV, 50 Hz, 5 s
Temperature coefficient	≤ 400 ppm/ $^{\circ}\text{C}$
Enclosure / vibration reference	IP53 / 1.5 g (series reference)
Working voltage	Confirm for the selected configuration*

Duty condition: The tabulated versions are intended for occasional / intermittent braking. Continuous loading or prolonged braking requires a separately confirmed thermal design.

* The supplied reference gives <1.2 kV in Chinese and <1.5 kV in English. No single working-voltage limit is asserted here. Reference values are not a JEBHANNE test certificate; final ratings and availability are confirmed in the quotation.

Compact housing sizes

60 W - 600 W | Dimensions in mm unless otherwise stated



02 Housing and mounting dimensions

Power (W)	L ±1	L1 ±1	W ±0.5	H ±0.5	C1 ±1	Mass (kg)	Resistance range
60	100	70	40	20	85	0.13	0.5 Ω - 10 kΩ
80	110	80	40	20	95	0.14	0.5 Ω - 10 kΩ
100	115	85	40	20	100	0.15	0.5 Ω - 10 kΩ
120	165	135	40	20	150	0.20	0.5 Ω - 10 kΩ
150	185	155	40	20	170	0.22	0.5 Ω - 10 kΩ
200	165	125	60	30	150	0.45	0.1 Ω - 20 kΩ
300	215	175	60	30	200	0.60	0.1 Ω - 20 kΩ
400	265	225	60	30	250	0.75	0.1 Ω - 20 kΩ
500	285	245	60	30	270	0.82	0.1 Ω - 20 kΩ
600	300	260	60	30	285	0.87	0.1 Ω - 20 kΩ

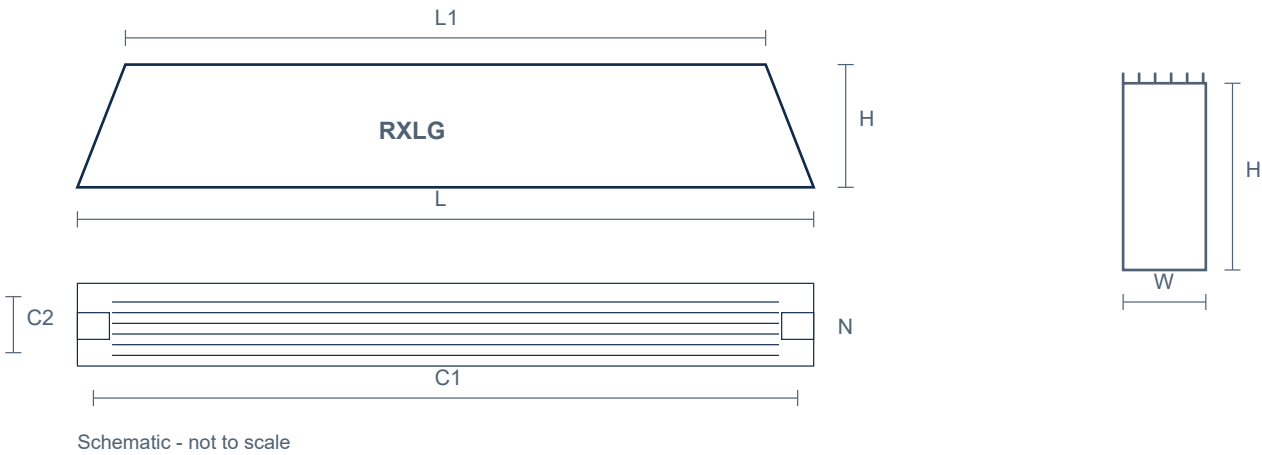
COMMON CONNECTION DETAILS

Mounting hole N	Wire*	Lead length L2	Terminal	Connection
5.5 ±0.2 mm	1.3 mm	300 mm	1.25-4S	Cable

* Wire is listed as 1.3 mm in the source. Confirm conductor specification and connection details when ordering. Housing dimensions may be customized.
Intermittent braking only for the tabulated configurations. Request thermal approval for continuous duty.

High-power housing sizes

800 W - 9000 W | Dimensions in mm unless otherwise stated



03 Housing and mounting dimensions

Power (W)	L ±1	L1 ±1	C1 ±1	Wire*	Lead (mm)	Terminal	Mass (kg)
800	210	170	195	2.5	300	2-6	1.80
1000	300	260	285	2.5	300	2-6	2.70
1200	350	310	335	2.5	350	2-6	3.15
1500	400	360	385	2.5	400	2-6	3.60
2000	450	410	435	2.5	450	2-6	4.05
2500	485	445	470	2.5	485	2-6	4.36
3000	550	510	535	4	550	3.5-6	4.95
4000	650	610	635	4	650	3.5-6	5.90
4500	700	660	685	6	700	3.5-6	6.50
5000	750	710	735	6	750	3.5-6	6.80
6000	850	810	835	6	850	3.5-6	7.10
7000	900	860	885	6	900	3.5-6	7.40
9000	1000	960	985	6	1000	3.5-6	8.00

COMMON HOUSING AND CONNECTION DETAILS

W = 50 ±0.5 mm; H = 107 ±0.5 mm; C2 = 30 ±0.5 mm; N = 6.5 ±0.2 mm.
Resistance range: 0.5 Ω - 30 kΩ. Connection options: cable, insert tab or thread.

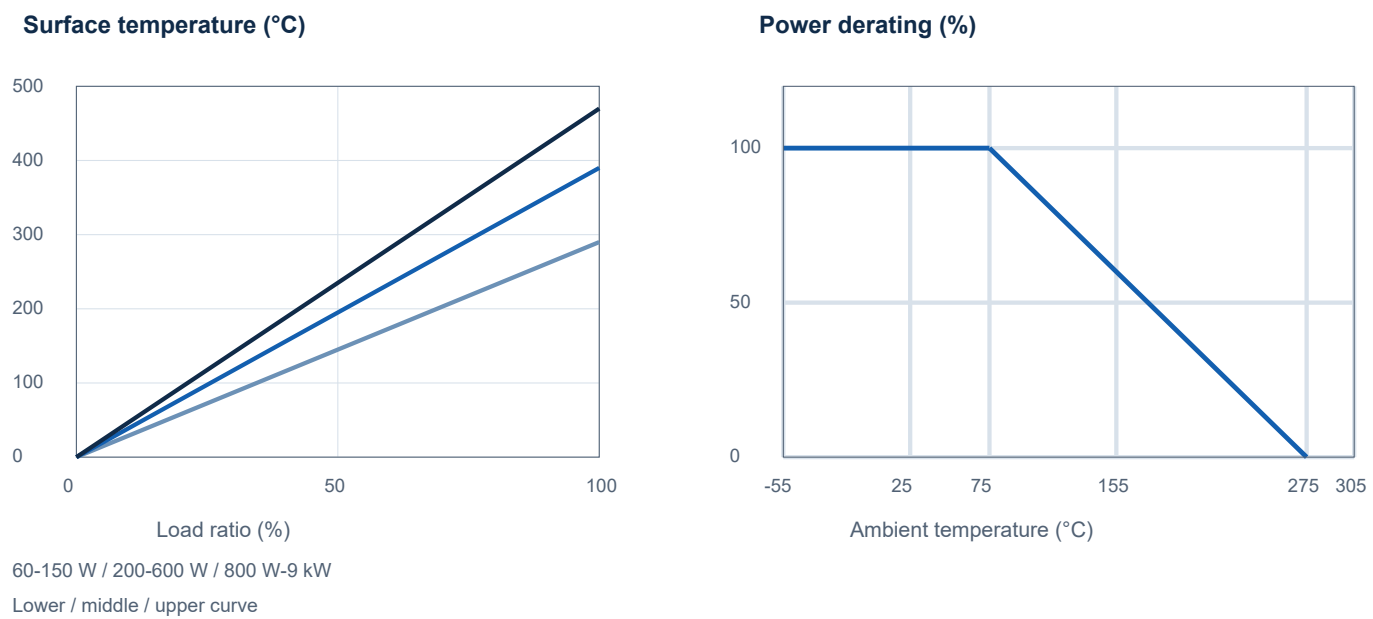
* Source wire values are labeled mm; confirm conductor specification. These dimensions apply to intermittent braking; continuous-duty designs require confirmation.



Thermal and test reference

Selection guidance | Confirm conditions for the intended application

04 Thermal characteristics



Curves are redrawn as indicative trends from the supplied reference. Surface-temperature endpoints are approximate readings, not measured JEBHANNE data. Validate cooling, mounting and duty cycle for the selected resistor.

05 Mechanical and electrical test conditions

Test	Condition	Reference criterion	GB5729
Humidity / heat	40 ±2°C; RH 90-95%; 96 h	$\Delta R \leq \pm(1\%R + 0.05 \Omega)$	4.24
Temperature cycling	-55°C to +155°C; 5 cycles	$\Delta R \leq \pm(1\%R + 0.05 \Omega)$	4.19
Transient overload	10 × rated power; 5 s	No visible damage	4.13
Insulation resistance	DC 1000 V	≥100 MΩ	4.6
Dielectric withstand	AC 2500 V; 50 Hz; 5 s	No breakdown or flashover	4.7
Endurance	25°C; Ur; 1000 h	$\Delta R \leq \pm(1\%R + 0.05 \Omega)$	4.25
Terminal strength	Lead <1.5 mm: 20 N; >1.5 mm: 40 N; terminal: 20 N	No visible damage	4.16
Vibration	5-200 Hz; 1 g; X/Y/Z, 2 h each	No visible damage; $\Delta R \leq \pm(1\%R + 0.05 \Omega)$	4.22

Test conditions transcribed from the reference; they do not certify a supplied batch. Confirm the test plan, the 1.5 mm boundary for terminal testing and required acceptance criteria with the quotation.



Ordering and customization

Define the resistor around the application and installation

06 Ordering code

N / RXLG / 200W / 50R / J / L

Field	Meaning	Example / options
N (optional)	Non-inductive construction	Request when required
RXLG	Product series	Aluminum housed braking resistor
200W	Power variant	Use the selected power and duty condition
50R	Resistance	50R = 50 Ω; R08 = 0.08 Ω; 5K = 5 kΩ
J	Resistance tolerance	F = ±1%; J = ±5%; K = ±10%
L	Connection	L = cable; P = insert tab; T = thread

07 Custom specification checklist

Housing dimensions and shape • Mounting hole size and centres • Lead length, conductor size and material • Terminal shape, dimensions and material • Resistance tolerance • Dielectric requirement • Temperature coefficient

08 Construction reference

Component	Material
Resistive element	Resistance alloy wire
Core	Heat-resistant ceramic or talc porcelain
Encapsulation	Electronic insulation material
Housing	Anodized aluminum

To request a quotation: Send model, power, resistance, tolerance, quantity, mounting drawing, connection details, braking duration and repetition rate. Include your required delivery date.

Coverage: this sheet lists 23 standard reference variants from 60 W to 9000 W. A catalogue item outside this table (including 50 W), or a different housing at the same power, requires its own confirmed drawing. All final specifications are subject to the agreed order.

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