

## DESCRIPTION

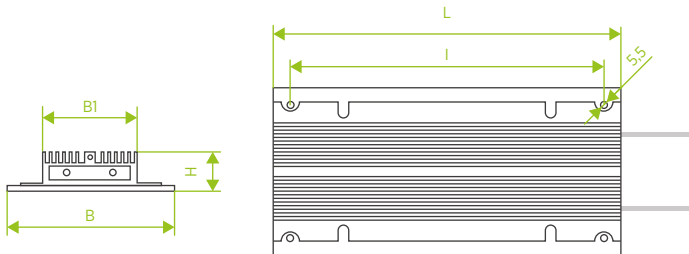
Wire wound resistor in anodized aluminum enclosure, characterized by a high degree of protection.

Resistive alloy (NiCr 8020 or CuNi44) is inserted in a ceramic core in dense cordierite C410. The mica insulator and a specially designed sealing material, allow the use of this resistor temperatures up to 400° c. Thanks to the flat profile, they allow an excellent thermal dissipation if fixed on a suitable heatsink. The resistor is supplied with 300 mm standard length cables, upon request the cables may be of different lengths or UL-type.

## APPLICATION

The main application is the use as engine braking resistor in the industrial automation sector systems that use the inverters. Another application is related to the use of the resistor for the charging and discharging of capacitors.

## DIMENSIONS



Model	L	l	B	B1	H
BRH/S 350	110	90	105	70	34
BRH/S 500	160	140	105	70	34
BRH/S 650	220	200	105	70	34
BRH/S 1100	320	300	105	70	34

## ELECTRICAL CHARACTERISTICS

Model	Nominal power	Resistance range	Tolerance	Maximum voltage	Maximum surface temperature	Insulation resistance @1000Vdc	Dielectric rigidity @50Hz x 1'	Degree of protection	Approximate weight
BRH/S 350	350 W	1 ÷ 120Ω	±5%	1.000 V	320 °C	> 1.000MΩ	4.000 Vrms	IP55	620 gr.
BRH/S 500	500 W	2,5 ÷ 3000Ω							735 gr.
BRH/S 750	750 W	3,3 ÷ 270Ω							850 gr.
BRH/S 950	950 W	4,7 ÷ 330Ω							1140 gr.

## OVERLOAD

For cyclic use with higher powers than the rated one, refer to the following table, which indicates the multiplication overload factor K of the nominal power, depending on the duty cycle D.C. and the duration of the overload Ts, on a period of 120 s. K-factor values are approximate and may vary slightly depending on the value of resistance.

D.C.	5%	10%	20%	30%	40%	50%
Ts	6s	12s	24s	36s	48s	60s
K	7,1	4,2	2,1	1,3	1,2	1,1

## IDENTIFICATION MODEL PER ORDER

BRH/S x yyy zzzRz t (UL)

**x:** option thermostat x = T

**yyy:** eg. model 200W yyy = 200

**zzzRz:** resistance value eg. 100Ω zzzRz = 100R - eg. 6,8Ω zzzRz = 6R8

**t:** tolerance t = J tolerance ±5% - t = K tolerance ±10%

**(UL):** option UL cables