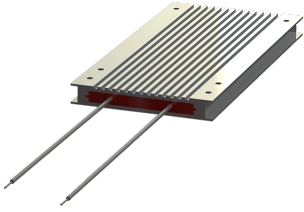


REOHM BW 152

Braking resistor, max. continuous power: 330 W



Unique Selling Point

- Very flat and compact construction
- Easy installation
- Short-circuit proof
- Suitable for the use with any frequency drive
- Use even in rough conditions
- Good heat dissipation, assembly on heat sink possible
- Highly resistive on overload

Description

The braking resistor of the series REOHM 152 are mounted close to the frequency converter and they are designed for drives with frequency converters of small to medium output. The Series 152 is available as a braking resistor (BW Series) or as a charging resistor (Series R).

Typical Applications:

- Drive Technology
- Renewable energy

Maximum energy with minimum space

- This unit is very compact with high power
- In case of failure of resistor, this will become highly resistive.
- Suitable for IP20-IP54 applications
- Test voltage: 2,5 kV AC (at 900 V rated voltage)

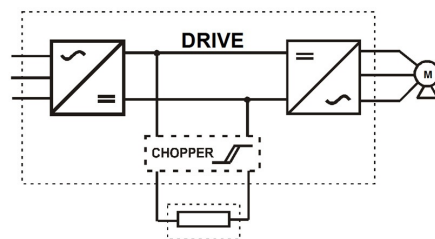
Optional

- With temperature switch
- Cover for protection against high surface temperatures

Technical Data

- Resistance values : 3 - 620 Ohm
- Continuous power : 120 - 330 W
- max. operating voltage : 900 V

Circuit example



REOHM BW 152

Braking resistor, max. continuous power: 330 W

Technical data

Type	Resistance value [Ohm]	with 25°C and surface temperature of.../P [W]		max. operation voltage [V]
		200K	220K	
152 / 100	10 - 620	120	160	900
152 / 150	12 - 500	150	200	
152 / 200	20 - 350	200	280	
152 / 250	3 - 430	250	330	

Higher power ratings on request

Note

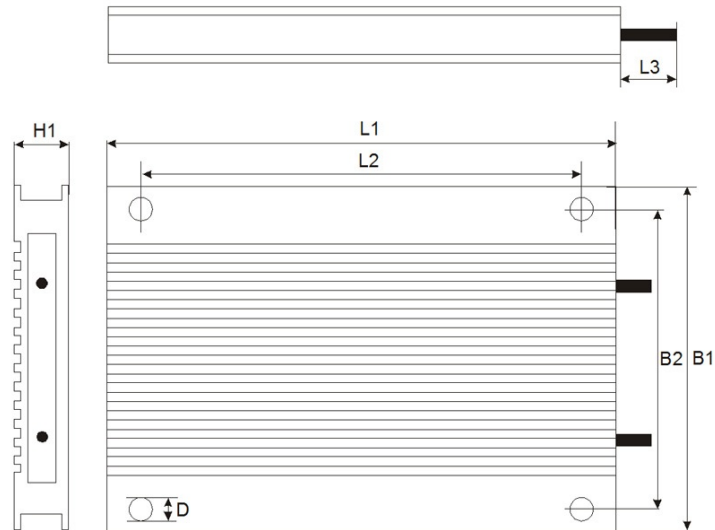
The ratings apply for 100 % duty cycle and free access and exit of cooling air.

In general: If the ambient temperature is higher than 40 °C, the continuous power must be reduced by 5 % per 10 K temperature rise.

REOHM BW 152

Braking resistor, max. continuous power: 330 W

Dimension drawings



Dimensions

Type	B1 [mm]	B2 [mm]	H1 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	D [mm]	Connection wire
152 / 100	100	84	14	100	70	250	4,2	2 x AWG 18,UL 1659
152 / 150	100	84	14	150	120	250	4,2	2 x AWG 18,UL 1659
152 / 200	100	84	14	200	170	250	4,2	2 x AWG 18,UL 1659
152 / 250	100	84	14	250	220	250	4,2	2 x AWG 18,UL 1659

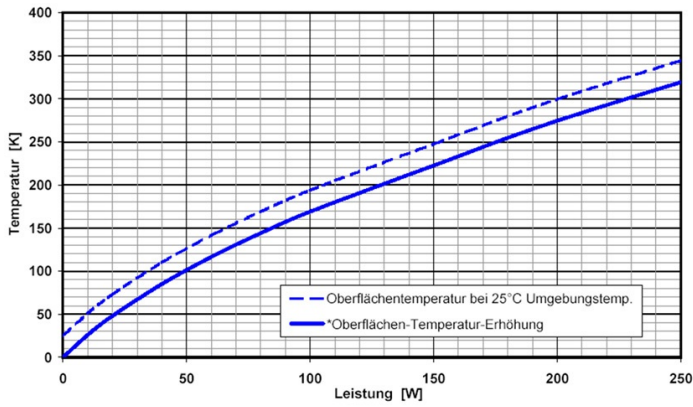
Other fixing dimensions possible

REOHM BW 152

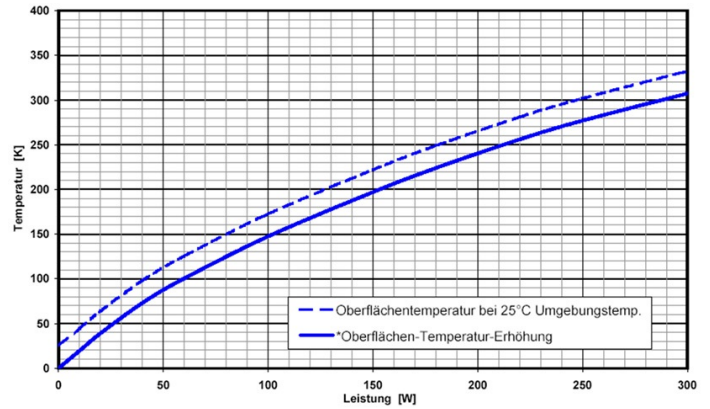
Braking resistor, max. continuous power: 330 W

Surface temperature in function of power

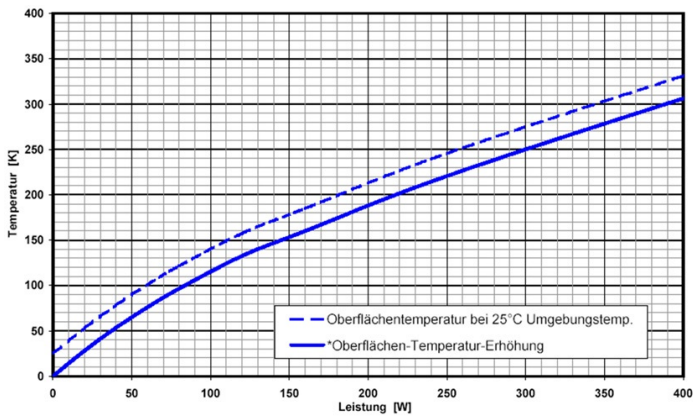
Surface temperature REOhm 152 / 100



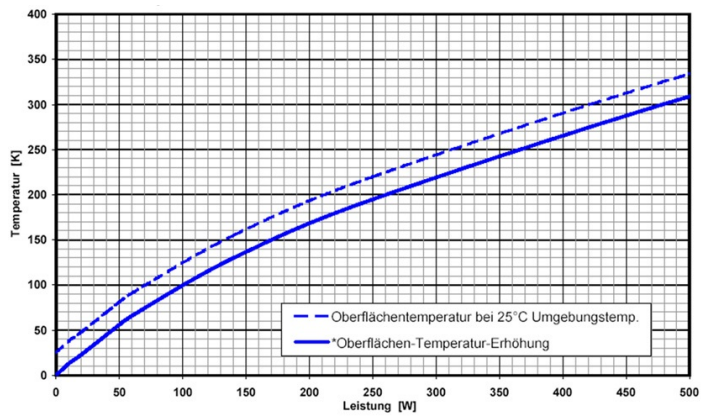
Surface temperature REOhm 152 / 150



Surface temperature REOhm 152 / 200



Surface temperature REOhm 152 / 250



Surface temperature increase, even over temperature, describes the increase in surface temperature when loaded.

REOHM BW 152

Braking resistor, max. continuous power: 330 W

Load diagram

The power ratings apply for continuous duty. The power ratings can be increased in short-time operation in function of duty cycle by multiplication with the relevant factor from the diagram below or according to the formula as follows.

$$P_{\max} = \frac{P * 100}{ED[\%]}$$

P_{\max} = Maximale Impulsleistung

P = Dauerleistung bei ED=100%

$$ED[\%] = \frac{ED[s]}{SD[s]} * 100$$

ED = Einschaltdauer

SD = Zykluszeit max 120 Sek.

Überlastfaktor

