Compact Braking Resistors

100 – 400 W, DB / 1 – 4 kW, KB

REOHM **Series BW 150**
Type BW 153/...

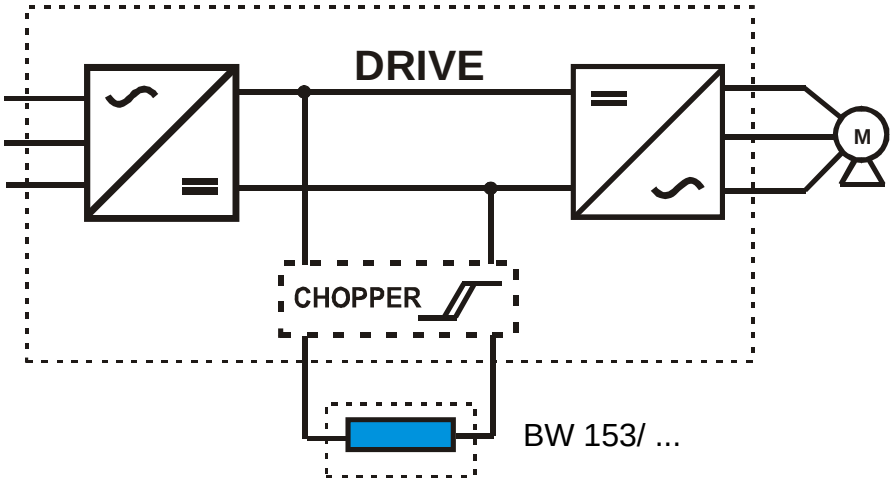
Applications:

Braking resistors for variable frequency drives. Inverters and drive motors with a dynamic load that requires quick stopping.

- Elevators
- Cranes
- High speed machines

Protection IP 20, IP 65	Test voltage 2.5 kV AC
Max. Temp > 300 ºC	Ambient temperature -10...+40 ºC

Circuit example



Benefits:

- Decelerating a load with large inertia
- Increase the control torque of the inverter
- For frequently repeated ON/OFF cycles
- Compact construction
- Easy installation
- Suitable for the use with any frequency drive
- Compact design
- Continuous power: Max. 4kw
- Dielectric strength
- High temperature wire
- CE Marked
- DIN 41 480 compliant

Technical data

Type	Resistance values R [Ohm]	Continuous power P [W]	Max. Operating voltage U [V]
BW 153 / 100 / ...	80 - 1600	100	900
BW 153 / 200 / ...	40 - 800	200	900
BW 153 / 300 / ...	35 - 200	300	900
BW 153 / 400 / ...	30 - 150	400	900

Other power ratings on request

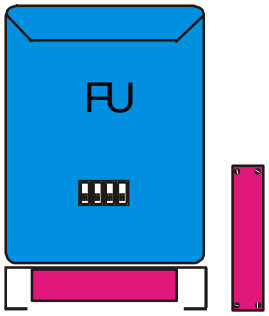
Maximum energy with minimum space.

Mounting can be lying flat or on edge.

Suitable for IP 65 applications.

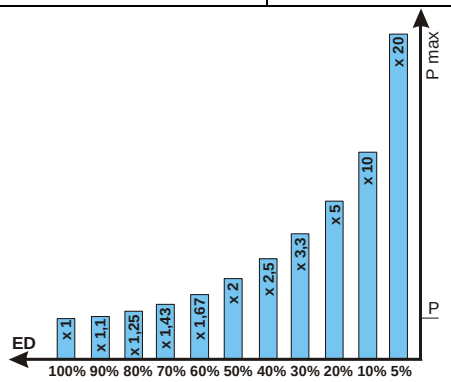
The REO-Flat resistor can be screwed under or on the side of a frequency drive using the mounting plate.

In cause of failure the resistor, will become highly resistive.



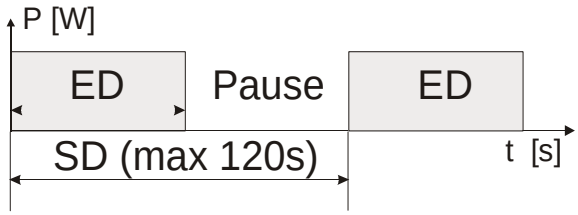
Load diagram

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



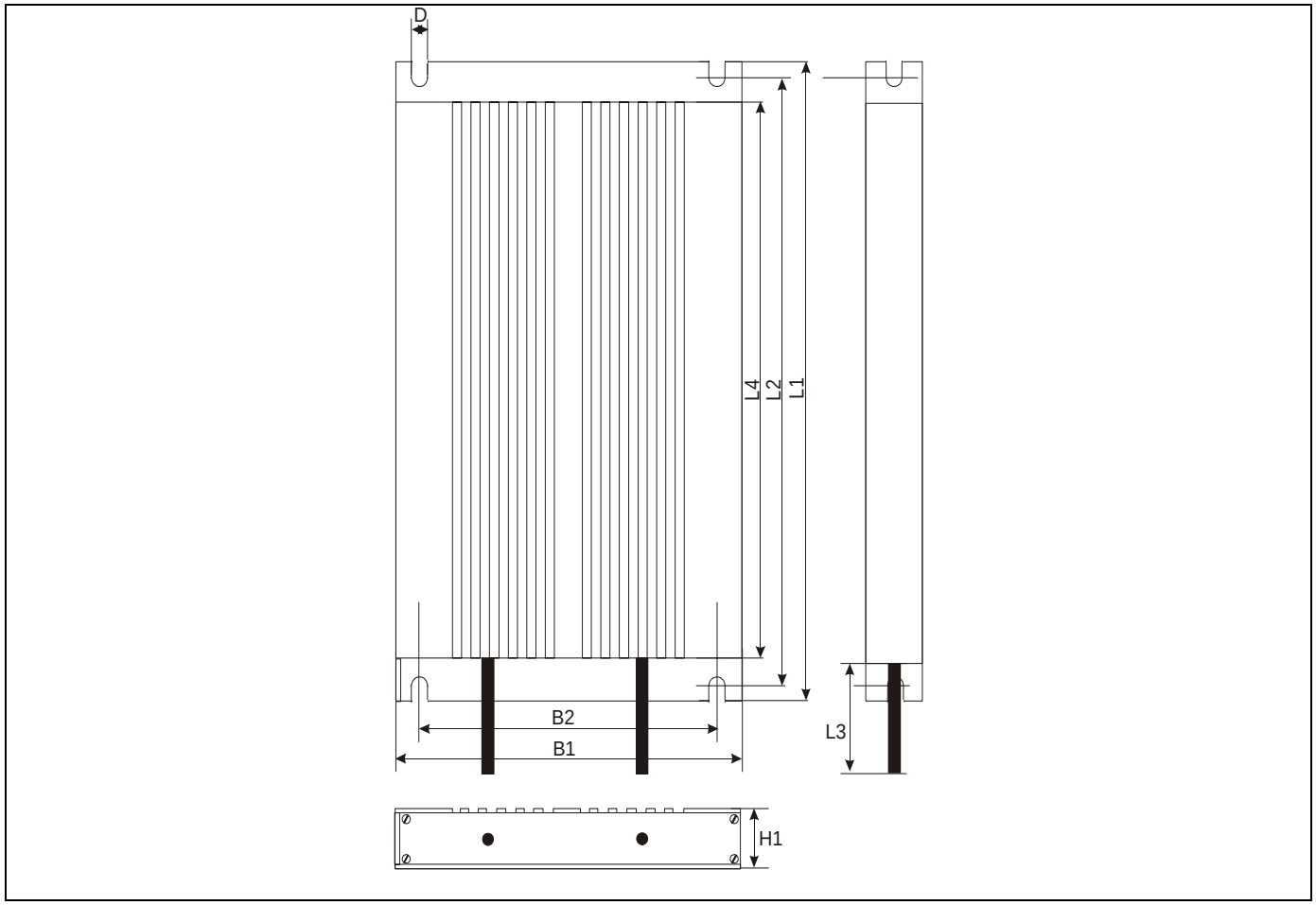
SD = **Cycle time max 120 sec.**

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



ED = **Duty cycle**

Dimension Drawing



Type	B1 [mm]	B2 [mm]	H1 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	D [mm]	Connection cable
BW 153 / 100 /...	103	70	27.5	160	145	250	130	4.5	2 x AWG 14, UL 1659
BW 153 / 200 /...	103	70	27.5	160	145	250	130	4.5	2 x AWG 14, UL 1659
BW 153 / 300 /...	103	70	27.5	210	195	250	180	4.5	2 x AWG 14, UL 1659
BW 153 / 400 /...	103	70	27.5	260	245	250	230	4.5	2 x AWG 14, UL 1659

Custom mounting positions are available upon request