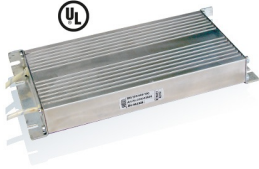


# REOhm series 153 (UL)

Max. continuous power: 360 W



## Unique Selling Point

- Small dimensions,
- Fast connection
- Short-circuit proof
- Matching to any frequency converter
- Can be used under rough conditions
- Vertical or horizontal installation possible
- High-resistance at overload
- Protection class up to IP65
- Certified for railway engineering

## Description

The BW 153 braking is designed for drives with frequency converters of small to medium output. The installation is close to the frequency converter.

In addition to the high protection class IP66, the profile resistors REOhm 153 are also UL-certified and have a power of 100 W up to 400 W (also as combination).

Maximum energy with minimum space

- Unity-version can be assembled as low-profile and upright
- Suitable for IP 65 applications
- The REO flat resistor can be screwed under or on the side of a frequency drive using a mounting plate
- In case of failure of resistor, this will become highly resistive
- Test voltage: 2,5 kV AC (at 900 V rated voltage)

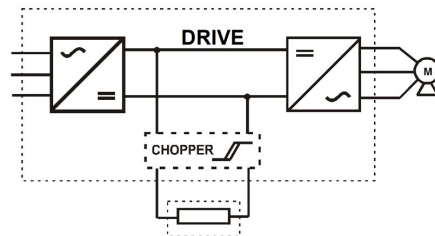
## Optional

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

## Technical Data

- Resistance values : 0,26 - 2000 Ohm
- Continuous power : 100 - 400 W
- max. operating voltage : 900 V

## Circuit example



# REOhm series 153 (UL)

*Max. continuous power: 360 W*

## Technical data

Type	Resistance values R [Ohm]	Continuous power at 25°C P [ W ]	max. operating voltage U [V DC] / [V AC]
BW 153 / 100	0,3 - 2000	100	900 / 600
BW 153 / 200	0,3 - 2000	200	900 / 600
BW 153 / 300	0,3 - 2000	300	900 / 600
BW 153 / 400	0,26 - 1500	400	900 / 600

## Note

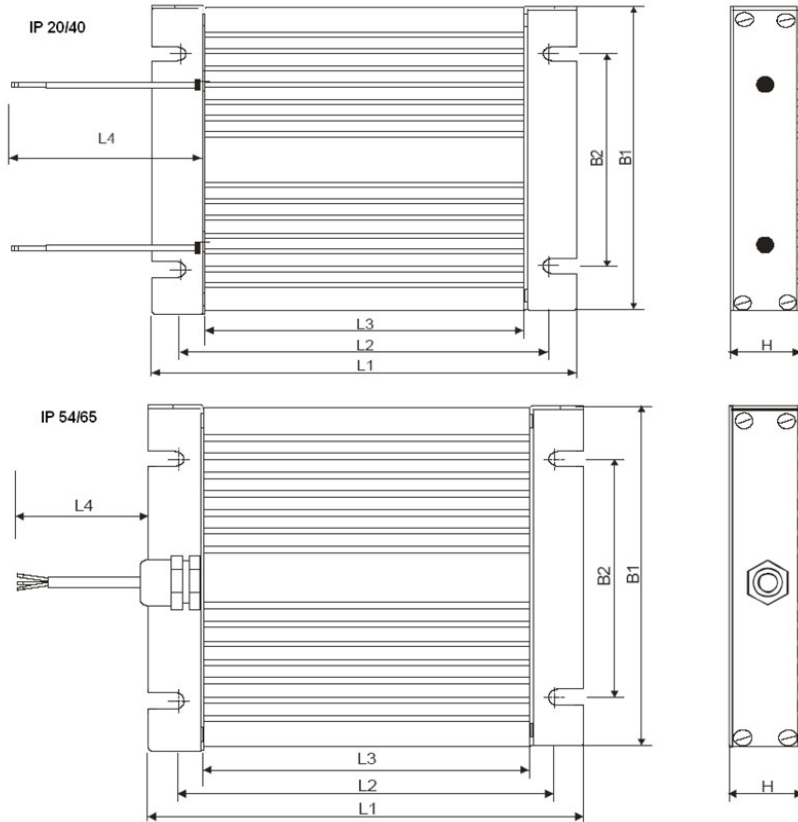
The ratings apply for 100 % duty cycle and free access and exit of cooling air.

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

# REOhm series 153 (UL)

Max. continuous power: 360 W

## Dimension drawings



## Dimensions

Type	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	B1 [mm]	B2 [mm]	H [mm]	D [mm]	Connection wire
BW 153 / 100	160	145	130	250	103	70	27,5	4,5	IP20/40 PTFE AWG14
BW 153 / 200	160	145	130	250	103	70	27,5	4,5	
BW 153 / 300	210	195	180	250	103	70	27,5	4,5	
BW 153 / 400	260	245	230	250	103	70	27,5	4,5	
BW 153 / 100	164	149	130	250	103	70	27,5	4,5	IP54/65 shielded connection cable 3 x 1,5 mm
BW 153 / 200	164	149	130	250	103	70	27,5	4,5	
BW 153 / 300	214	199	180	250	103	70	27,5	4,5	
BW 153 / 400	264	249	230	250	103	70	27,5	4,5	

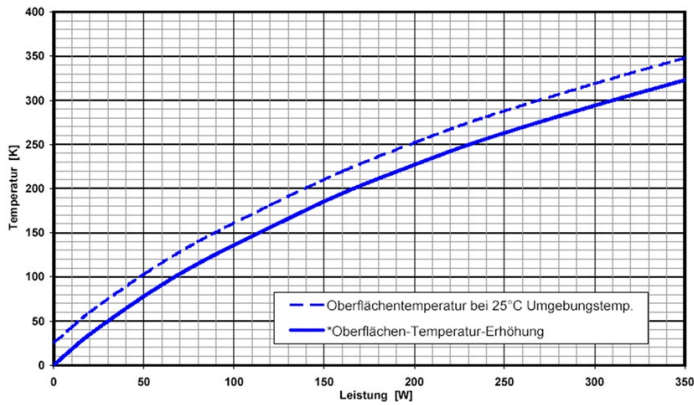
Other fixing dimensions possible

# REOhm series 153 (UL)

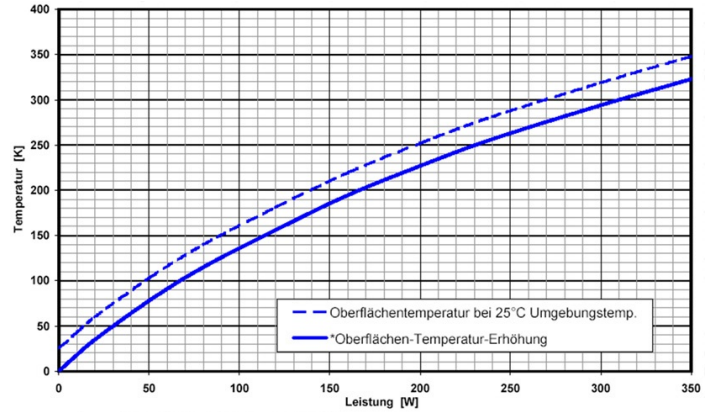
Max. continuous power: 360 W

## Surface temperature in function of power

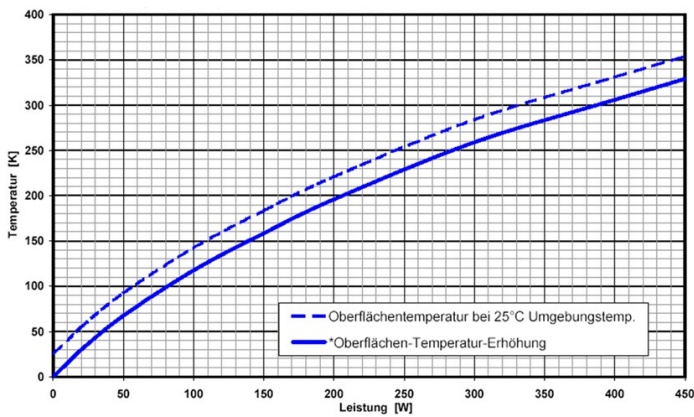
Surface temperature REOhm 153 / 100



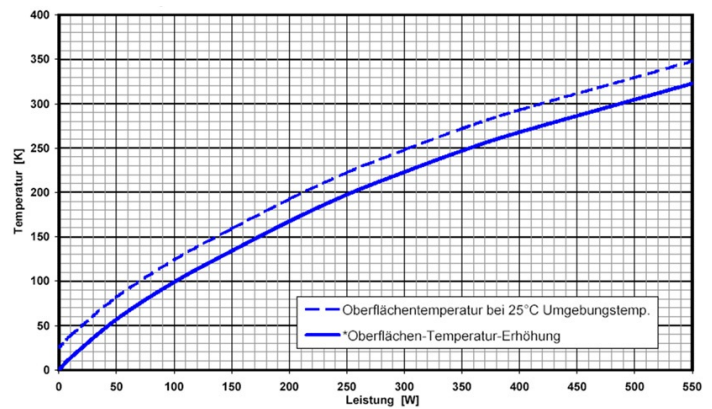
Surface temperature REOhm 153 / 200



Surface temperature REOhm 153 / 300



Surface temperature REOhm 153 / 400



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

# REOhm series 153 (UL)

Max. continuous power: 360 W

## Load diagram

These performances are valid for continuous operation. The power values may be increased in the short-term operation as a function of the duty cycle multiplied by the appropriate factor in the following diagram, or by the following formula.

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

$P_{\max}$  = Maximale Impulsleistung /  
Maximum pulse power

$P$  = Dauerleistung bei ED=100% /  
Continuous power for  
continuous 100%

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

ED = Einschaltdauer  
Duty cycle

SD = Zykluszeit max 120 Sek.  
Cycle time max 120 sec.

