

# Compact Braking resistor

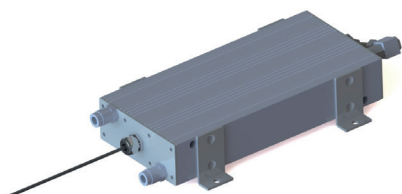
## BWD 158

BW D 158/1000 - 60.000 W

### Advantages

- Very compact construction
- Use also possible at higher ambient temperatures
- Optimised cooling for high ratings
- Very low enclosure overtemperature (<50 °C)
- Suitable for standard cooling fluids (water/glycol)
- high protection class up to IP66
- Operating pressure of the cooling circuit up to 4 bar (test pressure 10 bar)
- Needs very little space in the control cabinet

Compact Braking resistor BWD 158



### Technical data

Compact Braking resistor BWD 158			
Type	Resistance values R [Ohm]*	Continuous output P [W]	max. operating voltage U [V]
BW D 158 / 3000	10 - 200	3.000	1000
BW D 158 / 5000	10 - 200	5.000	
BW D 158 / 6000	10 - 200	6.000	
BW D 158 / 10000	6 - 500	10.000	
BW D 158 / 15000	4 - 600	15.000	
BW D 158 / 20000	3 - 600	20.000	
BW D 158 / 30000	2,1 - 750	30.000	
BW D 158 / 45000	2,1 - 800	45.000	
BW D 158 / 60000	2 - 850	60.000	

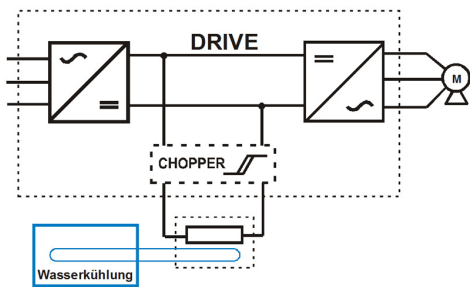
Typical applications: For use as braking or load resistor for drive technology, industrial applications, test beds and railway engineering with integrated water cooling. Thanks to localised, optimised cooling, high outputs can be generated in the smallest space with low heat generation. It is also possible to deploy it in areas with high ambient temperatures.

\*Other resistance values on request.

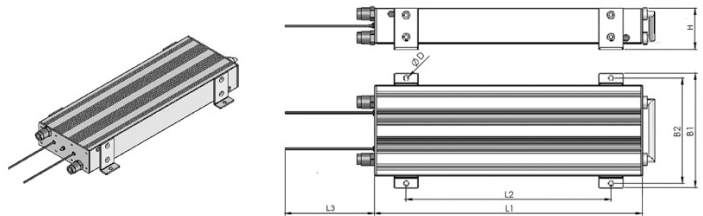
# Mechanical data

Compact Braking resistor BWD 158									
Type	Dimensions						Connection		Design
	L1 [mm]	L2 [mm]	L3 [mm]	B1 [mm]	B2 [mm]	H [mm]	Cable gland	Clamp	
BW D 158 / 3000	320	213	500	190	175	68	M20	6 mm <sup>2</sup>	BF1
BW D 158 / 5000	450	343	500	190	175	68	M20	6 mm <sup>2</sup>	BF1
BW D 158 / 6000	550	443	500	190	175	68	M20	6 mm <sup>2</sup>	BF1
BW D 158 / 10000	680	343	265	176	156	170	M25	10 mm <sup>2</sup>	BF2
BW D 158 / 15000	680	343	265	245	225	170	M32	10 mm <sup>2</sup>	BF3
BW D 158 / 20000	680	343	265	2x176	2x156	170	M32	10 mm <sup>2</sup>	2xBF2
BW D 158 / 30000	680	343	265	2x245	2x225	170	M32	10 mm <sup>2</sup>	2xBF3
BW D 158 / 45000	680	343	265	3x245	3x225	170	M32	16 mm <sup>2</sup>	3xBF3
BW D 158 / 60000	680	343	265	4x245	4x225	170	M32	16 mm <sup>2</sup>	4xBF3

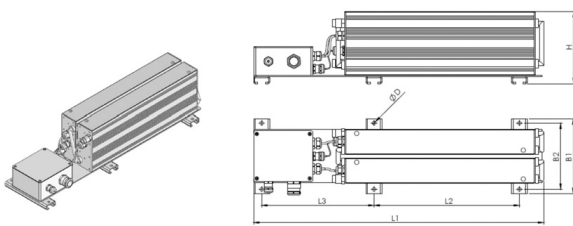
Circuit example



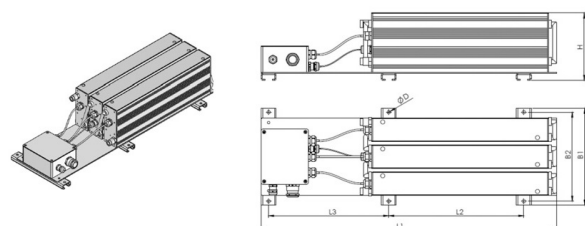
Dimension drawing, Design 1



Dimension drawing, Design 2



Dimension drawing, Design 3



Load diagram

