

DATA SHEET



Resistors GmbH

Type:

**RFB – frame fixed resistor unit 8 up to 12 kW
with terminal box B**



Applications:

- As braking and chopper resistors
- In variable-speed drives
- In lifts and conveyors
- In the printing and paper industries
- In the packing, plastics and textile industries
and in machine construction
- In the wire and wood processing industries

Types		RFB 8-7	RFB 10-7	RFB 12-7
Pulse power in kW $T_a=25^\circ\text{C}$	c.d.f. 6%*	76,0	95,0	114,0
	c.d.f. 15%*	39,2	49,0	58,8
	c.d.f. 25%*	25,6	32,0	38,4
	c.d.f. 40%*	17,6	22,0	26,4
	c.d.f. 60%*	12,0	15,0	18,0
Continuous rating in kW at $T_a=25^\circ\text{C}$		8,0	10,0	12,0
Resistance values		80 Ω	64 Ω	54 Ω
Resistance tolerance		$\pm 10\%$		
Connection		BKL pillar terminal block two-pole 2,5 mm ² max. 24 A BKL10 pillar terminal block two-pole 10 mm ² max. 57 A RKL4 modular terminals 4 mm ² + protective grounding line-up terminal 4 mm ² max. 32 A (EN)		
Degree of protection (DIN EN 60529)		IP 20 in according to screwed on condition		
Housing temperature at nominal rating $T_a=25^\circ\text{C}$		$\leq 250^\circ\text{C}$		
Cooling		natural convection		
Storage temperature		-25 ... +85 $^\circ\text{C}$		
Test voltage		2,5 kV AC		
Max. permissible operating voltage		800 V		
Approvals		UL possible		
Mounting positions				

* referred to a cycle duration of 120 s

Subject to technical modifications

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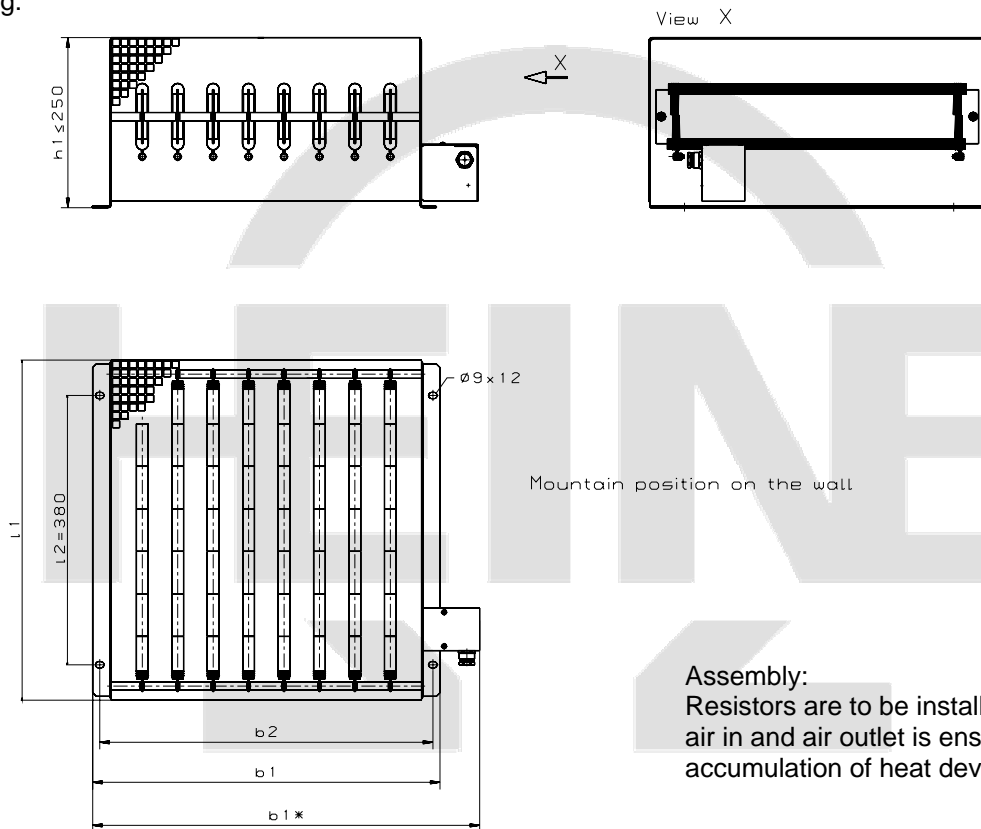
Type:
RFB – frame fixed resistor unit 8 up to 12 kW

Construction:

Resistor frame consists of grooved ceramic insulators fixed on both longitudinal sides of a metal or temperature-resistant insulating material. The resistance wire is a NiCr alloy or CuNi 44. Different combination options of framework fixed resistors are possible in one housing. The housing is galvanized.

Framework fixed resistors with temperature-steady insulators as substrate are characterised in the Chopper operation by small inductance, lack of noise and high insulation voltage.

Drawing:



Subject to technical modifications

Dimensions:

Types	weight in kg	width in mm		width b2 in mm	length L1 in mm
		b1 (RF...) ≤	b1* (RFB...) ≤		
RFB 8-7	18	495	550	470	490
RFB 10-7	21	595	650	570	490
RFB 12-7	24	695	750	670	490