

# Braking Resistors

Product Catalogue



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## Company information

Since 2009 **Vektor Tekhnologiy** has been developing, manufacturing and supplying lift components, and working in the field of industrial automation market as well. Over these years we have managed to find and offer comprehensive solutions to our customers, providing them with full range of engineering services starting from the project development to commissioning.

**Vektor Tekhnologiy** policy and main goals are the highest quality, continual improvement, and customization.

When it comes to the quality, **Vektor Tekhnologiy** meets the most demanding requirements and always implements its commitments.

The company has developed and implemented ISO 9001 quality management system standards and has a testing laboratory equipped with sophisticated tools for output quality control.

## Braking Resistors

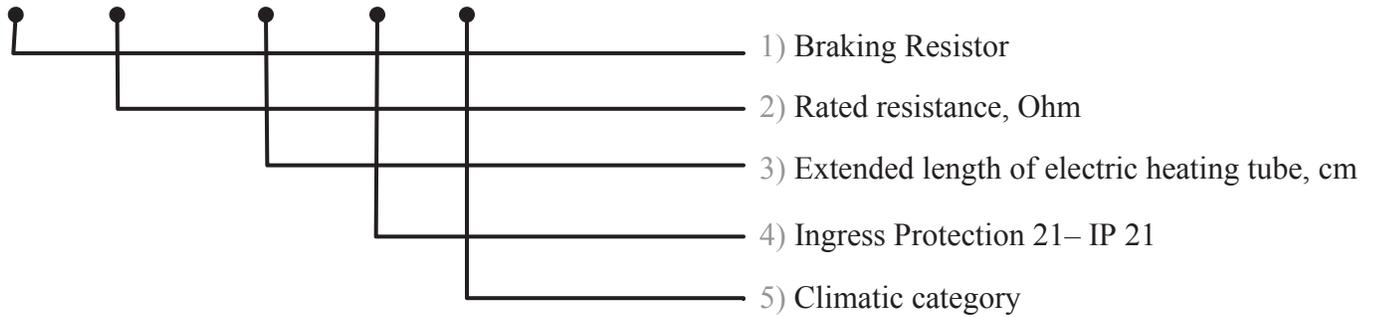
Braking resistors are used in automatic speed control system of electric motors that could form a part of elevator electric drives, or general purpose industrial equipment, or mechanical handling equipment. Braking resistors are manufactured in accordance with RB Technical Requirements TU BY 191250454.001-2012.

All Braking Resistors possess the Certificate of Conformity to Technical Regulations of the Customs Union and EC-Type Examination Certificate of conformity with essential safety requirements of The Low Voltage Directive 2014/35/EU and The Electromagnetic Compatibility (EMC) Directive 2014/30/EU.



# Reference Designation and Specifications

(1) (2) (3) (4) (5)  
**BT-XXX-XXX-21. U3**



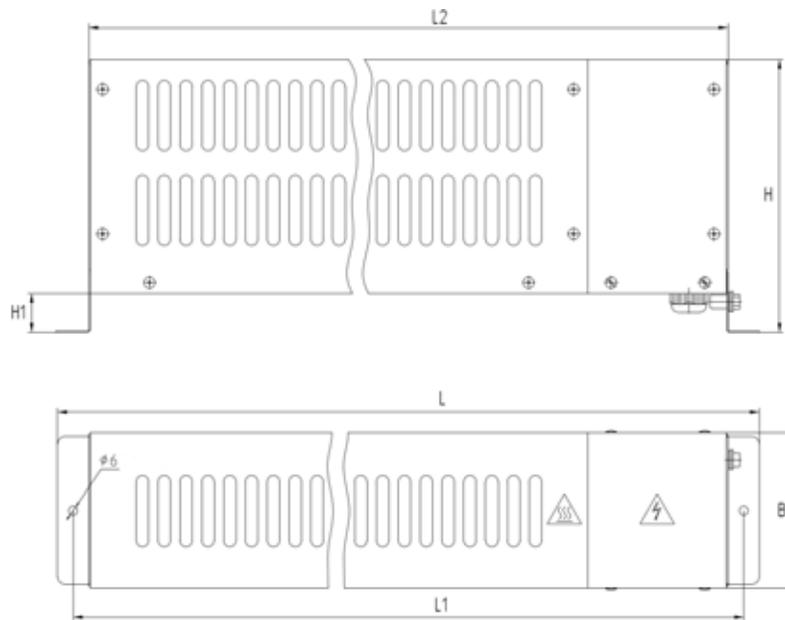
Specifications	Model													
	BT-14-180-21.U3	BT-14-220-21.U3	BT-14-220-21.U3	BT-14-440-21.U3	BT-23-168-21.U3	BT-23-220-21.U3	BT-23-220-21.U3	BT-23-280-21.U3	BT-23-440-21.U3	BT-30-110-21.U3	BT-30-440-21.U3	BT-34-168-21.U3	BT-34-220-21.U3	
Rated resistance, Ohm	14				23				30		34			
Rated resistance tolerance, %	From minus 5 to plus 10													
Rated power, kW	10.3				6.3				5.0		4.25			
Rated voltage, V	800													
Min duty factor (DF), %	25													
Max weight, kg	2.9	3.2	3.2	5.6	3.0	3.2	3.2	4.5	5.6	2.5	5.7	2.9	3.2	
Climatic conditions	Max altitude, m	1000												
	Ambient temperature, °C	From minus 5 to plus 40												
	Max relative humidity, %	80 at 20°C												

Specifications		Model									
		BT-34-220-21.U3	BT-34-440-21.U3	BT-46-140-21.U3	BT-46-220-21.U3	BT-46-440-21.U3	BT-70-80-21.U3	BT-70-440-21.U3	BT-75-80-21.U3	BT-75-440-21.U3	BT-135-80-21.U3
Rated resistance, Ohm		34		46			70		75		135
Rated resistance tolerance, %		From minus 5 to plus 10									
Rated power, kW		4.25		3.2			2.1		1.92		1.23
Rated voltage, V		800									
Min duty factor (DF), %		25									
Max weight, kg		3.2	5.7	2.7	3.2	5.6	2.2	5.6	2.3	5.6	2.0
Climatic conditions	Max altitude, m	1000									
	Ambient temperature, °C	From minus 5 to plus 40									
	Max relative humidity, %	80 at 20°C									

Other configurations are available on demand.

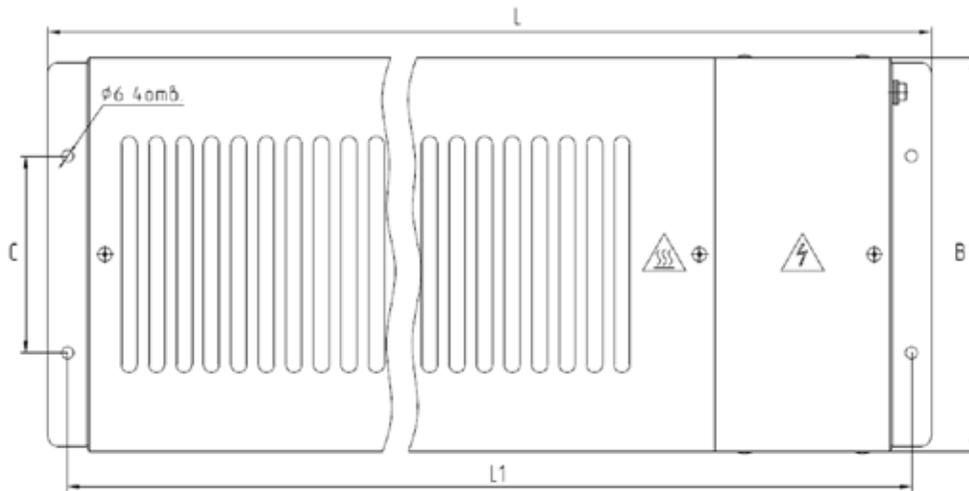
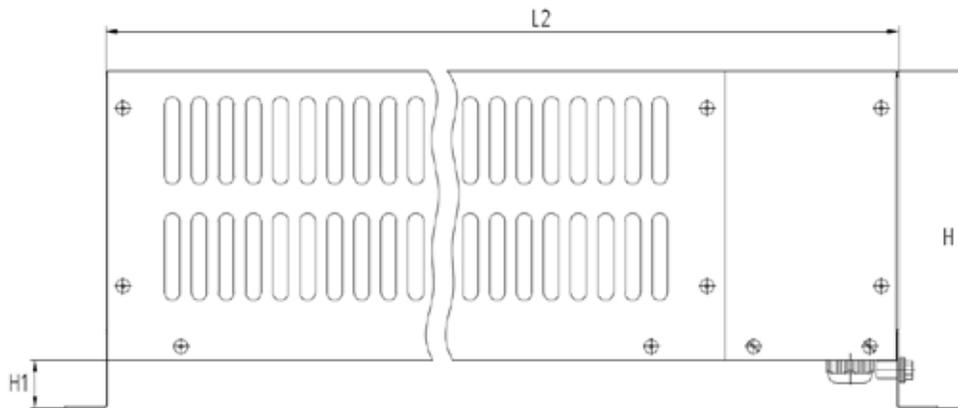


# Basic Dimensions



Model	L	L1	L2	B	H	H1
BT-14-180-21.U3	450	430	410	100	174	25
BT-14-220-21.U3	450	430	410			
	520	500	480			
BT-23-168-21.U3	450	430	410			
BT-23-220-21.U3*	450	430	410			
	520	500	480			
BT-30-110-21.U3	450	430	410			
BT-34-168-21.U3	450	430	410			
BT-34-220-21.U3*	450	430	410			
	520	500	480			
BT-46-140-21.U3	520	500	480			
BT-46-220-21.U3	520	500	480			
BT-70-80-21.U3	365	345	325			
BT-75-80-21.U3	450	430	410			
BT-135-80-21.U3	365	345	325			

\*The resistor dimensions are specified additionally by the customer.



Model	L	L1	L2	B	H	H1	C
BT-14-440-21.U3	520	500	480	200	174	25	100
BT-23-280-21.U3							
BT-23-440-21.U3							
BT-30-440-21.U3							
BT-34-440-21.U3							
BT-46-440-21.U3							
BT-70-440-21.U3							
BT-75-440-21.U3							

**Never Out Of Stock!**

# The Elevator Shaft Design of Braking Resistors

Customized design of braking resistor complete with a mounting plate for automatic speed controller and EMC filter is possible on customer's demand for installation directly in the elevator shaft.

Braking resistor design ensures protection of automatic speed controller from water drops fallen vertically. Braking resistor is mounted directly in the elevator shaft and could be used in elevator installations without machine room.

All elements are premounted on a plate and wired. It saves time for mechanical and electrical installation in the elevator shaft.



YASKAWA Automatic Speed Controller	Braking Resistor Model
CIMR-LC4F0015 CIMR-LC4F0018	BT-34-220-21.U3
CIMR-LC4F0024 CIMR-LC4F0031 CIMR-LC4F0039	BT -23-220-21.U3

Basic Dimensions

