



N. 640380

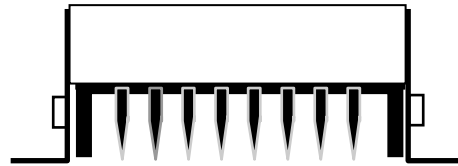
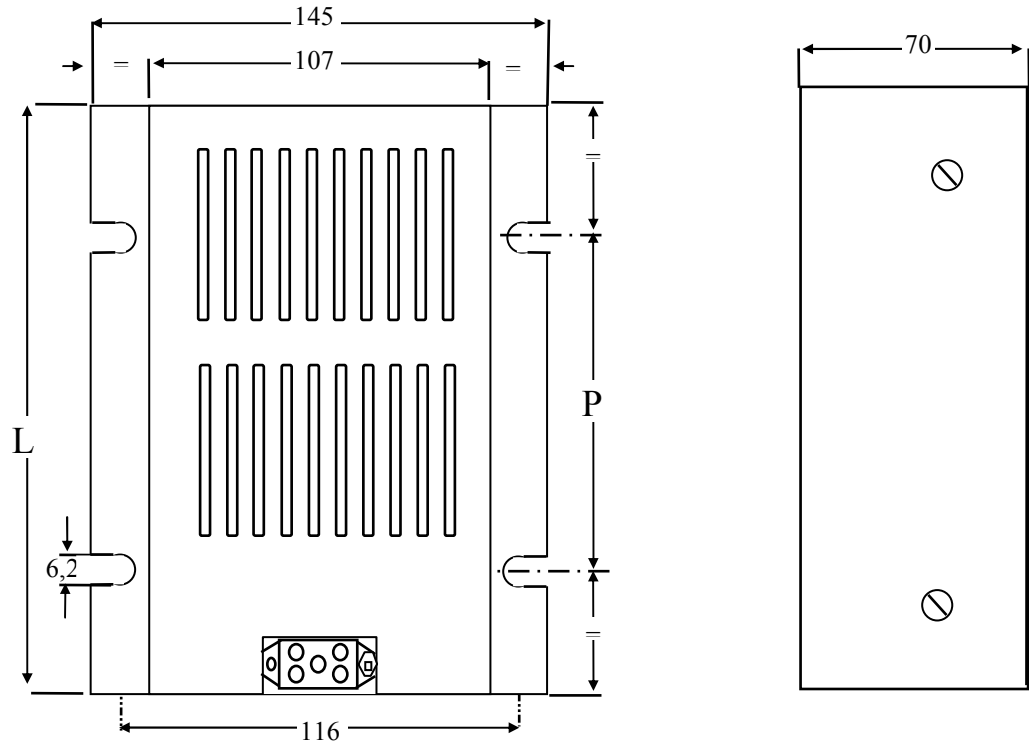
foglio 1 di 2

# DATA SHEET

Approval Walter Cerutti  
Verified Mauro Pellegatta  
Revision 2 10/10/97

Emission DT 13.06.1997

## PROTECTED RESISTOR-GROUP Style. RFP



Modello	L-0+2	P±1
RFP 600	153	80
RFP 900	193	120
RFP1300	243	170

### 1. DESCRIPTION

Even when the power to dissipate is not very high, in the dynamic braking it arises the requiring for a protected and compact resistor-group that may be employed like an independent unity.

The resistor style RFP are studied to meet this exigency when the required load is between 300 W and 800 W

The finishing surface of metallic box is zinc-galvanised.

### 2. GENERAL CHARACTERISTICS

A resistor style SRF, mounted on a suitable heat sink, is arranged inside the box, and naturally the electrical characteristics of every group reflects the characteristics of the mounted resistor, that is to say:

Style	used resistor
RFP 600	SRF 600
RFP 900	SRF 900
RFP1300	SRF 1300

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# DATA SHEET

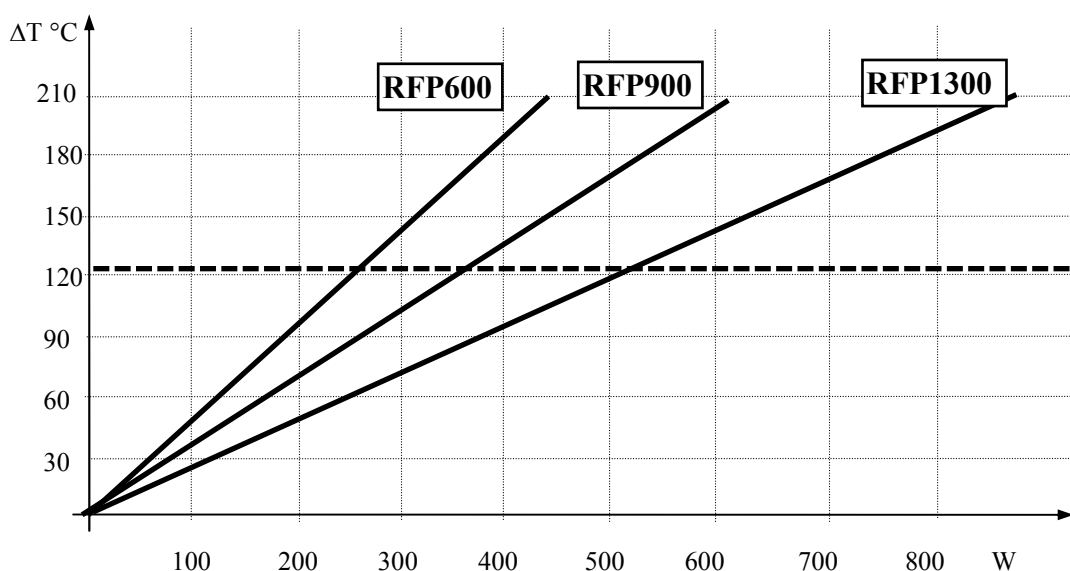
Approval Walter Cerutti  
Verified Mauro Pellegatta  
Revision 2 10/10/97

Emission DT 13.06.1997

The main characteristics for all the models are::

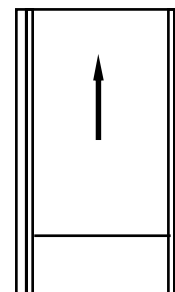
2.1 Dielectric strength (1'@ 50Hz)	3.000 Vrms. (resistor /Box)	
2.2 Isolation resistance	> 10.000 MΩ (@ 1000VDC)	
2.3 Resistance range	2 ÷ 250 Ω	
2.4 Tolerance	± 5%	
2.5 Protection grade	IP21	
2.6 Connecting clamps	Resistor	N° 2 of 4ž
	Earth	N° 1 Screw M4

### 3 Graph Load/Box over temperature



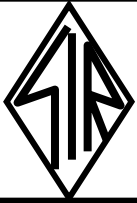
### 4. ASSEMBLING INSTRUCTIONS

The correct mounting is vertical with outlet leaving upper side.  
With horizontal mounting apply a derating of 30% in order to avoid the cover overheating.



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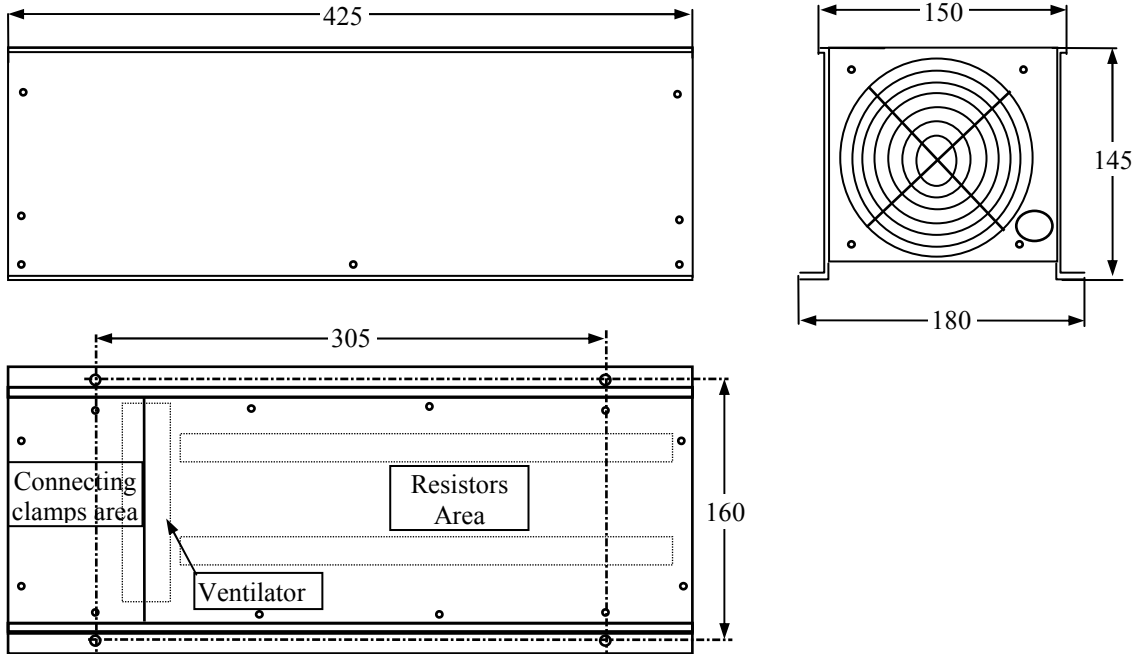
foglio 1 di 2

# DATA SHEET

Approval Walter Cerutti  
Verified Mauro Pellegatta

Revision 0 12.03.96  
Emission DT 12.03.96

## VENTILATED RESISTORS GROUP mod. BUV 1 (4000 W max)



### 1. DESCRIPTION

Frequently, in dynamic braking, when the continuous power is higher than 1000 W, it arises the requirement of a ventilated and protected resistors group that may be employed like an independent unit.

The resistors group type BUV 1 & BUV 2 (see Data Sheet 64240) are studied to meet this need, when the required load is between 1000 and 8000 W.

The finishing surface of the metallic box is zinc-galvanised, but it is possible to receive the varnished version.

### 2. GENERAL CHARACTERISTICS

A resistors group, suitable to stand the required load or impulse duty cycle, is mounted in the ventilated box. The following characteristics are common to all models.

2.1 Dielectric strength (1'@ 50Hz)	4.500 Vrms. (resistors/box) 3.000 Vrms. (Auxiliaries Clamps/box)
2.2 Isolation resistance (@ 1000V)	> 10.000 MΩ
2.3 Resistance range	2 ÷ 10.000 Ω
2.4 Tolerance	± 5%
2.5 Connecting clamps	Resistor N° 2 of 6 Ventilator N° 2 of 4 Thermostat (on request) N° 2 of 4 Earth N° 1 of 6

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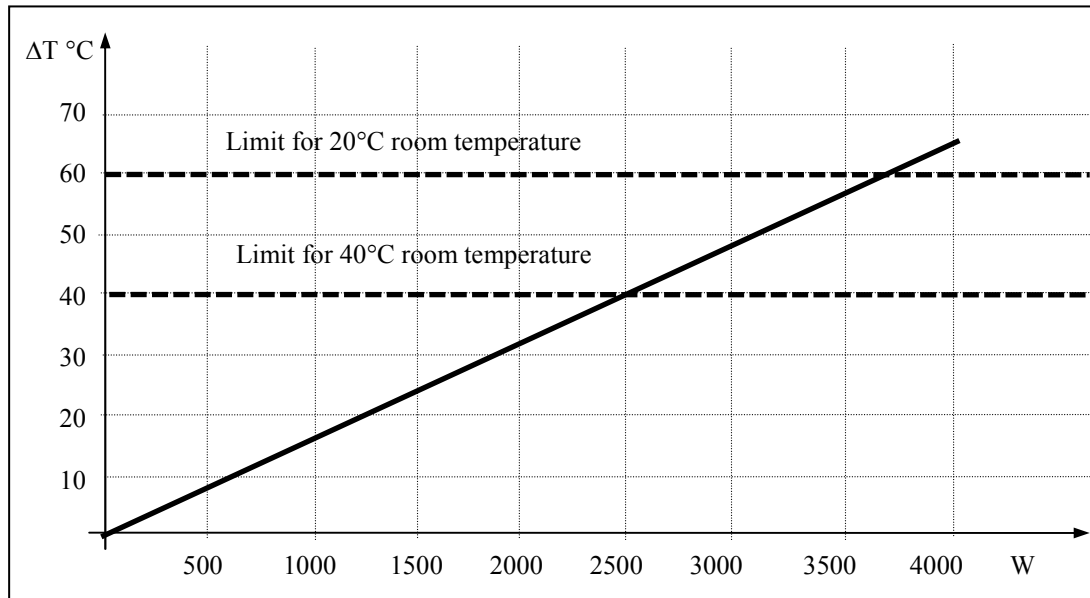
foglio 2 di 2

## DATA SHEET

Approval Walter Cerutti  
Verified Mauro PellegattaRevision 0 12.03.96  
Emission DT 12.03.96

## VENTILATED RESISTORS GROUP mod. BUV 1

## 2.6 Graph Load/Outlet over temperature



## NOTE -

The limits fixed by the dotted lines, show the maximum admitted load to avoid the temperature of outlets gets beyond 80°C.

Beyond this temperature, the security norms impose to signal the high temperature or to protect from incidental contacts.

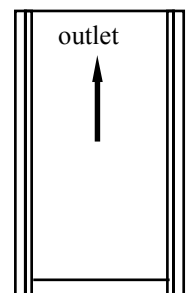
## 3. SPECIAL FEATURES

On request, it is possible to receive the following semistandard executions:

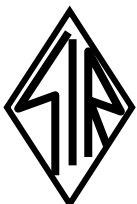
- 3.1 - with security thermostat.
- 3.2 -with non inductive winding.
- 3.3 -with 2 resistance value
- 3.4 -with varnished box (RAL 7032)

## 4. ASSEMBLING INSTRUCTIONS

The correct mounting is vertical with outlet leaving the upper side.  
Horizontal mounting is practicable with 30% derating.



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N. 640240

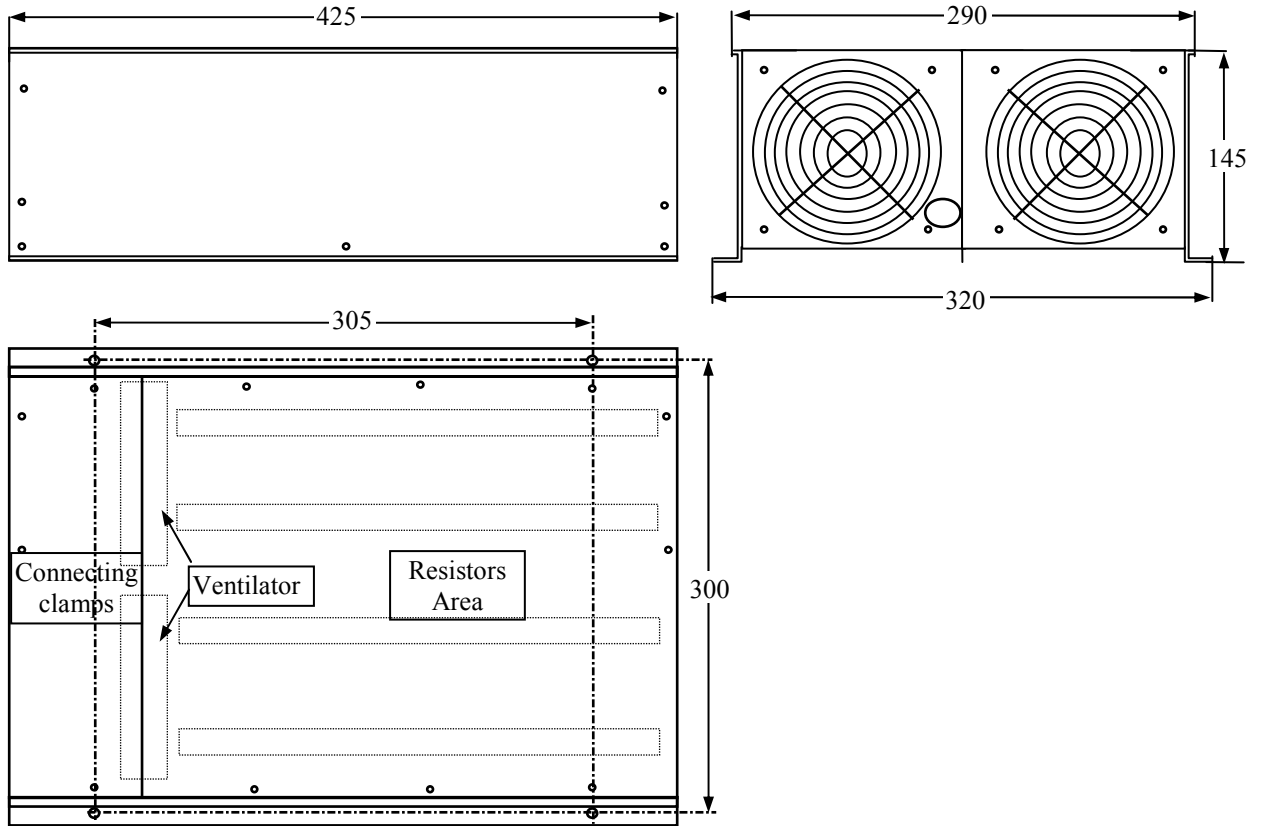
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# DATA SHEET

Approval Walter Cerutti  
Verified Mauro Pellegatta

Revision 0 12.03.96  
Emission DT 12.03.96

## VENTILATED RESISTORS GROUP mod. BUV 2



### 1. DESCRIPTION

Frequently, in dynamic braking, when the continuous power is higher than 1000 W, it arises the requirement of a ventilated and protected resistors group that may be employed like an independent unit.

The resistors group type BUV 1 & BUV 2 (see Data Sheet 64230) are studied to meet this need, when the required load is between 1000 and 8000 W.

The finishing surface of the metallic box is zinc-galvanised, but it is possible to receive the varnished version.

### 2. GENERAL CHARACTERISTICS

A resistors group, suitable to stand the required load or impulse duty cycle, is mounted in the ventilated box. The following characteristics are common to all models.

2.1 Dielectric strength (1'@ 50Hz)	4.500 Vrms. (resistors/box) 3.000 Vrms. (Auxiliaries Clamps/box)
2.2 Isolation resistance (@ 1000V)	> 10.000 MΩ
2.3 Resistance range	2 ÷ 10.000 Ω
2.4 Tolerance	± 5%
2.5 Connecting clamps	Resistor N° 2 of 6ž Ventilator N° 2 of 4ž Thermostat (on request) N° 2 of 4ž Earth N° 1 of 6ž

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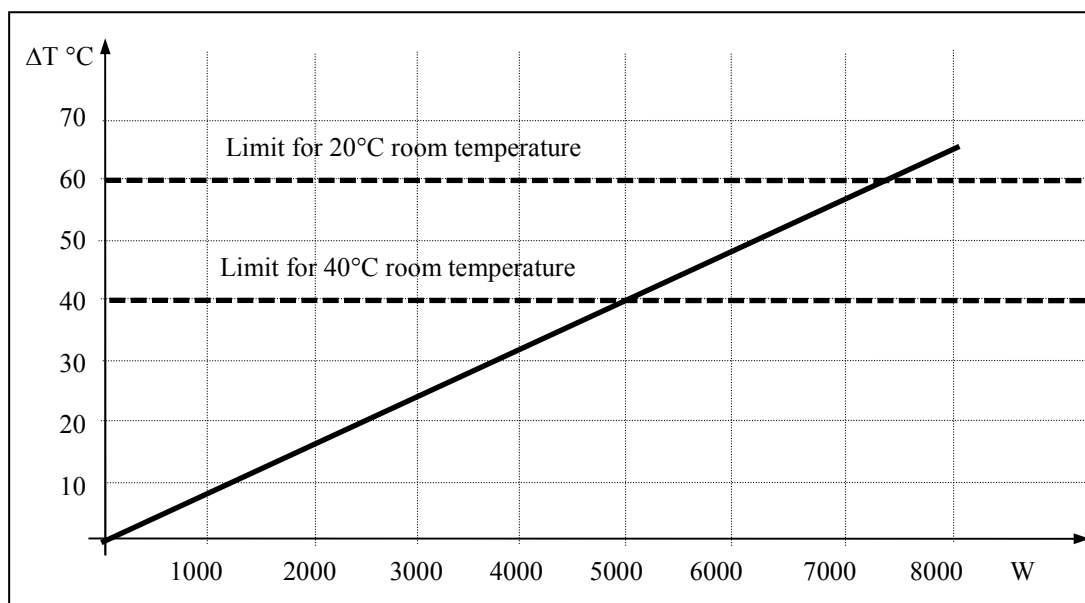
# DATA SHEET

Approval Walter Cerutti  
Verified Mauro Pellegatta

Revision 0 12.03.96  
Emission DT 12.03.96

## VENTILATED RESISTORS GROUP mod. BUV 2

### 2.6 Graph Load/Outlet over temperature



#### NOTE -

The limits fixed by the dotted lines, show the maximum admitted load to avoid the temperature of outlets gets beyond 80°C.

Beyond this temperature, the security norms impose to signal the high temperature or to protect from incidental contacts.

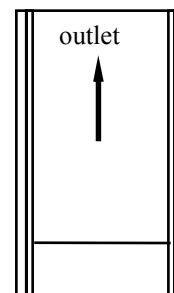
### 3. SPECIAL FEATURES

On request, it is possible to receive the following semistandard executions:

- 3.1 - with security thermostat.
- 3.2 -with non inductive winding.
- 3.3 -with 2 resistance value
- 3.4 -with varnished box (RAL 7032)

### 4. ASSEMBLING INSTRUCTIONS

The correct mounting is vertical with outlet leaving the upper side.  
Horizontal mounting is practicable with 30% derating.



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# DATA SHEET

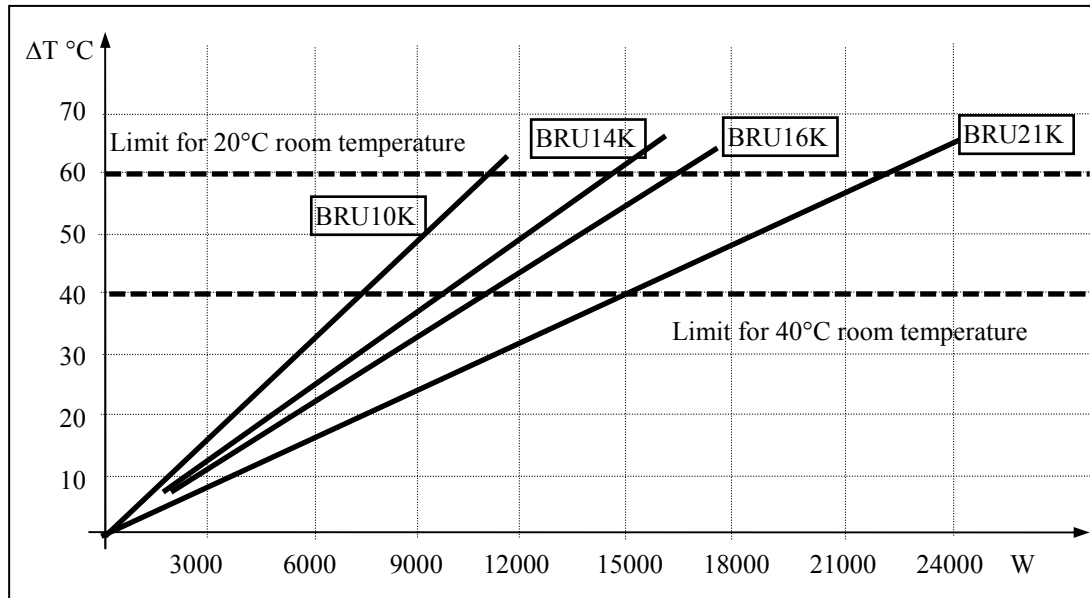
Approval Walter Cerutti  
Verified Mauro Pellegatta

Revision 0 12.3.1996

Emission DT 12.3.1996

## VENTILATED RESISTORS GROUP mod. BRU

### 2.6 Graph Load/Outlet over temperature



#### NOTE -

The limits fixed by the dotted lines, show the maximum admitted load to avoid the temperature of outlets to arise beyond 80°C.

Beyond this temperature, the security norms impose to signal the high temperature or to protect from incidental contacts.

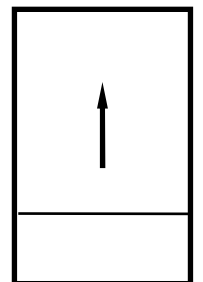
### 3. SPECIAL FEATURES

On request, it is possible to receive the following semistandard executions:

- 3.1 - with security thermostat (recommended).
- 3.2 -with non inductive winding.
- 3.3 -with more resistance values

### 4. ASSEMBLING INSTRUCTIONS

The correct mounting is vertical with outlet leaving the upper side.  
Horizontal mounting is not practicable.



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N. 640300

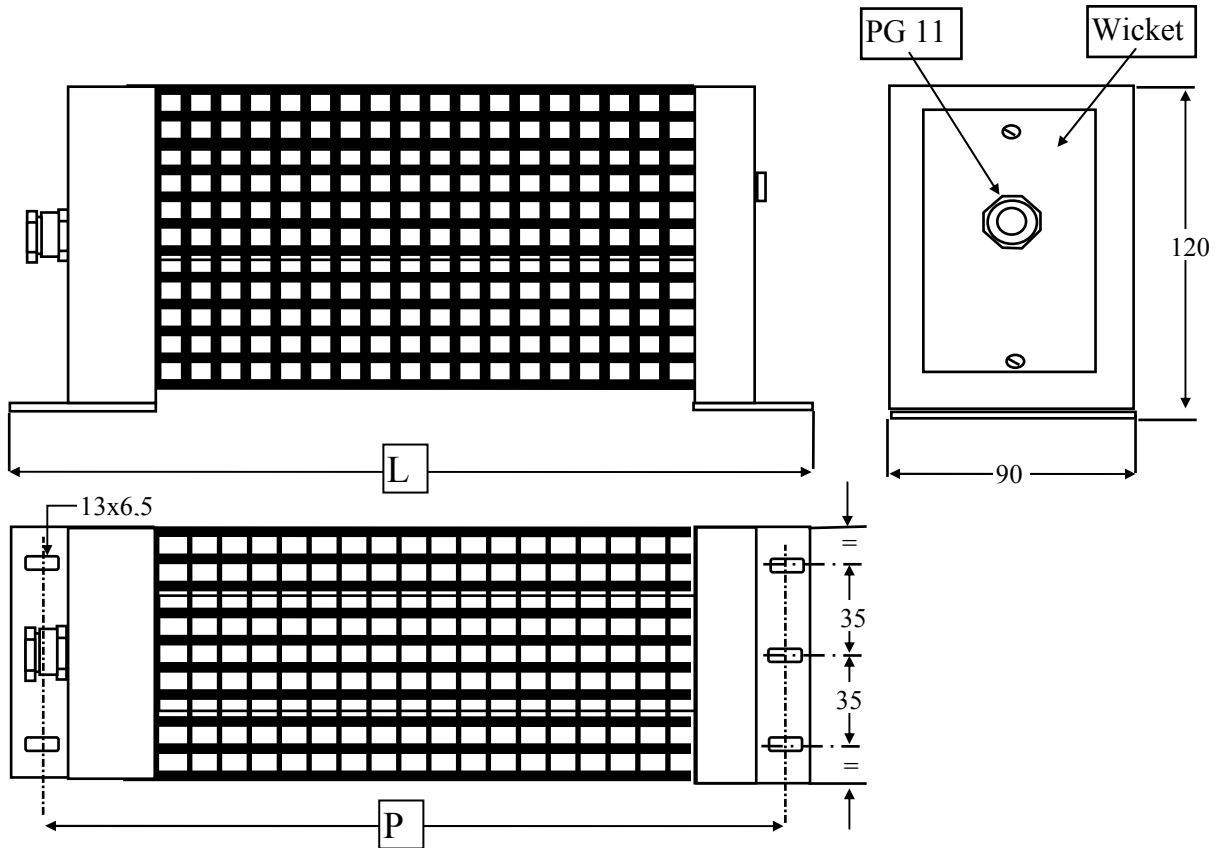
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# DATA SHEET

Approval Walter Cerutti  
Verified Mauro Pellegatta

Revision 1 16.05.1997  
Emission DT 14.01.1997

## BRAKE RESISTOR IN METALLIC CASE mod. BRR.



STYLE	L±5	P±5	Rated power
BRR 500	310	290	500 W
BRR 800	410	390	800 W
BRR 1K0	510	490	1050 W
BRR 1K3	610	590	1300 W

### 1. DESCRIPTION

Frequently in the dynamic braking, when the continuous power is between 500 W and 12.000W, it arises the requiring for a protected resistors (or resistors group) that may be employed like an independent unity.

The resistors type BRR . and BDR . (see Data Sheet 64310) are resistor in punched plate box studied to meet this exigency,  
The finishing surface of the metallic box is white zinc-galvanised.

### 2. GENERAL CHARACTERISTICS

A resistors group suitable to stand to the required load or impulses duty cycle is mounted in a punched plate box that facilitate the natural ventilation.

Removing the wicket it is possible to attain to the ceramic clamp to connect the resistor.

The following graphics "Load versus Temperature" may give an idea of the application possibility of these resistors

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# DATA SHEET

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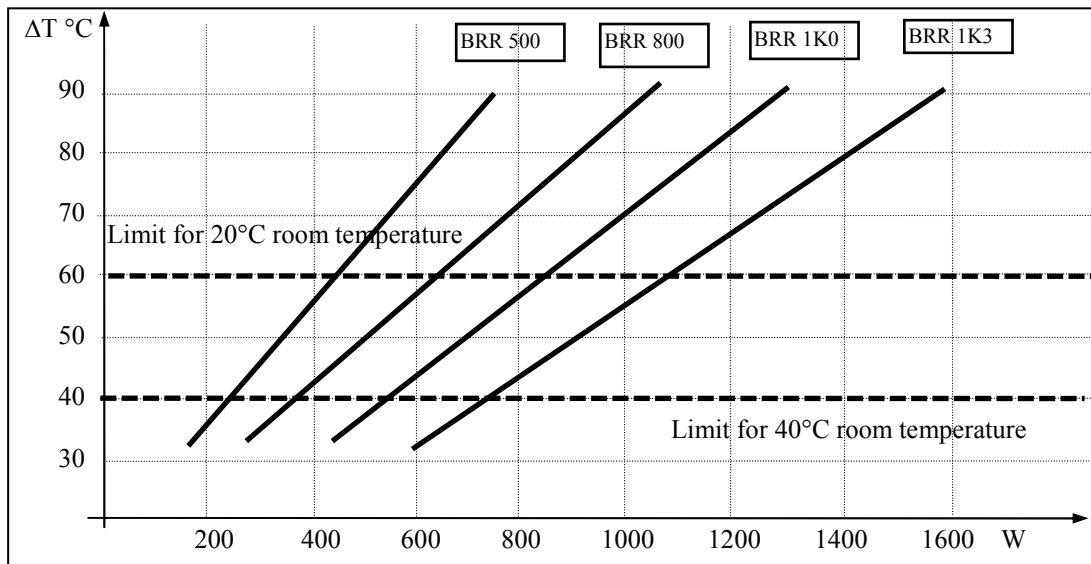
Revision 1 16.05.1997  
Emission DT 14.01.1997

## BRAKE RESISTOR IN METALLIC CASE mod. BRR.

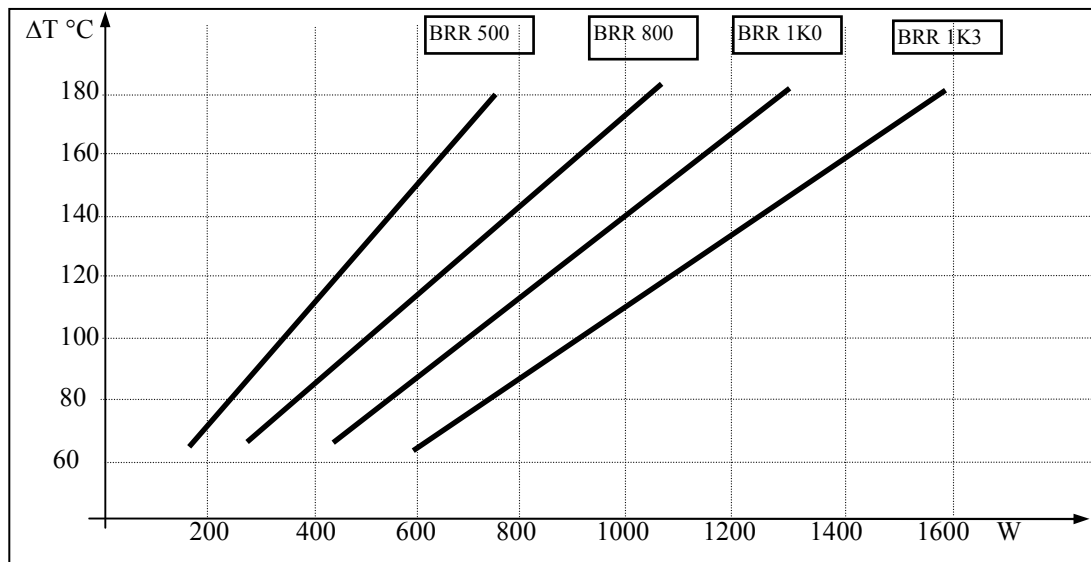
Other main characteristics are:

2.1 Dielectric strength (1'@ 50Hz)	4.500 rms (resistors/box)	
2.2 Isolation resistance (@ 1000V)	> 10.000 MΩ	
2.3 Resistance range	2 ÷ 10.000 Ω	
2.4 Tolerance	± 5%	
2.4 Overload	5 times the rated power for 10''	
2.6 Connecting clamps (ceramic)	Resistor	N° 2 of 4mm <sup>2</sup>
	Earth	N° 1 Screw M4

### 2.6 Graph Load/Protection grid temperature



### 2.7 Graph Load/Outlet over temperature



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# DATA SHEET

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Revision 1 16.05.1997  
Emission DT 14.01.1997

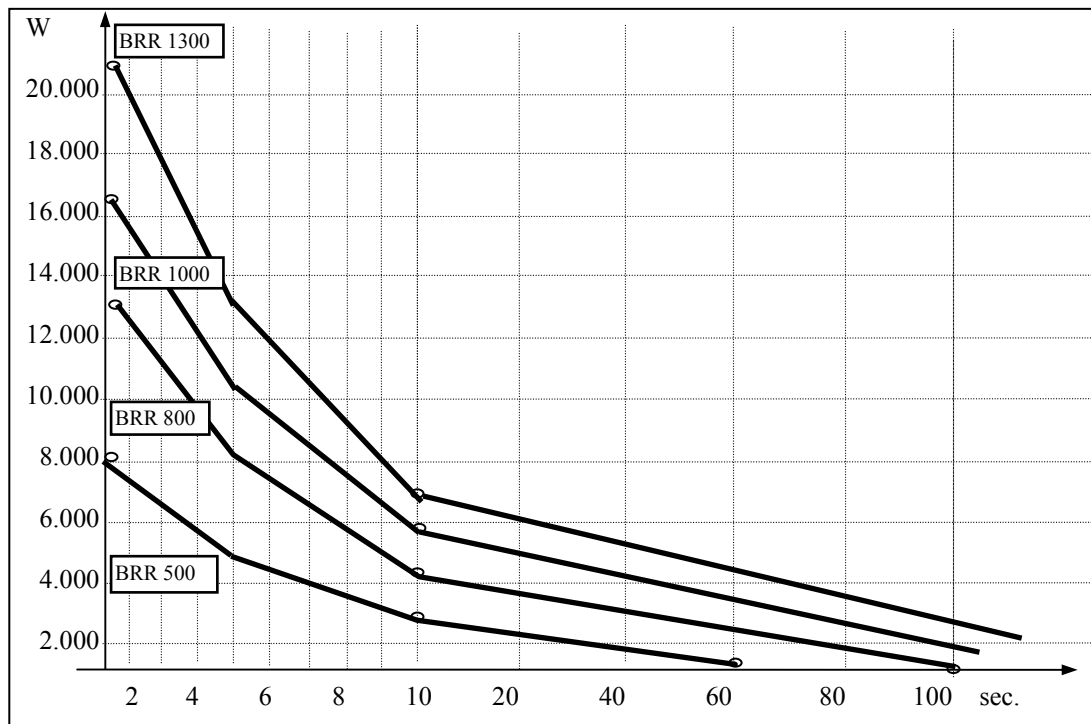
## BRAKE RESISTOR IN METALLIC CASE mod. BRR

### NOTE -

The limits fixed by the dotted lines, show the maximum admitted load to avoid the temperature of outlets arises beyond 80°C.

Over this temperature the security norms impose to signal the high temperature or to protect by the incidental contacts.

### 2.8 Graph Overload/Application time



### 3. SPECIAL FEATURES

On request it is possible to achieve the following semistandard executions:

- 3.1 - with security thermostat (e.g. BRR500T)
- 3.2 - with non inductive winding. (e.g. BRRN500)
- 3.3 - with two resistance values (e.g. BRRP500)

### 4. ASSEMBLING INSTRUCTIONS

The correct mounting is Horizontal  
. Vertical mounting is not practicable.

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