



N. 640348

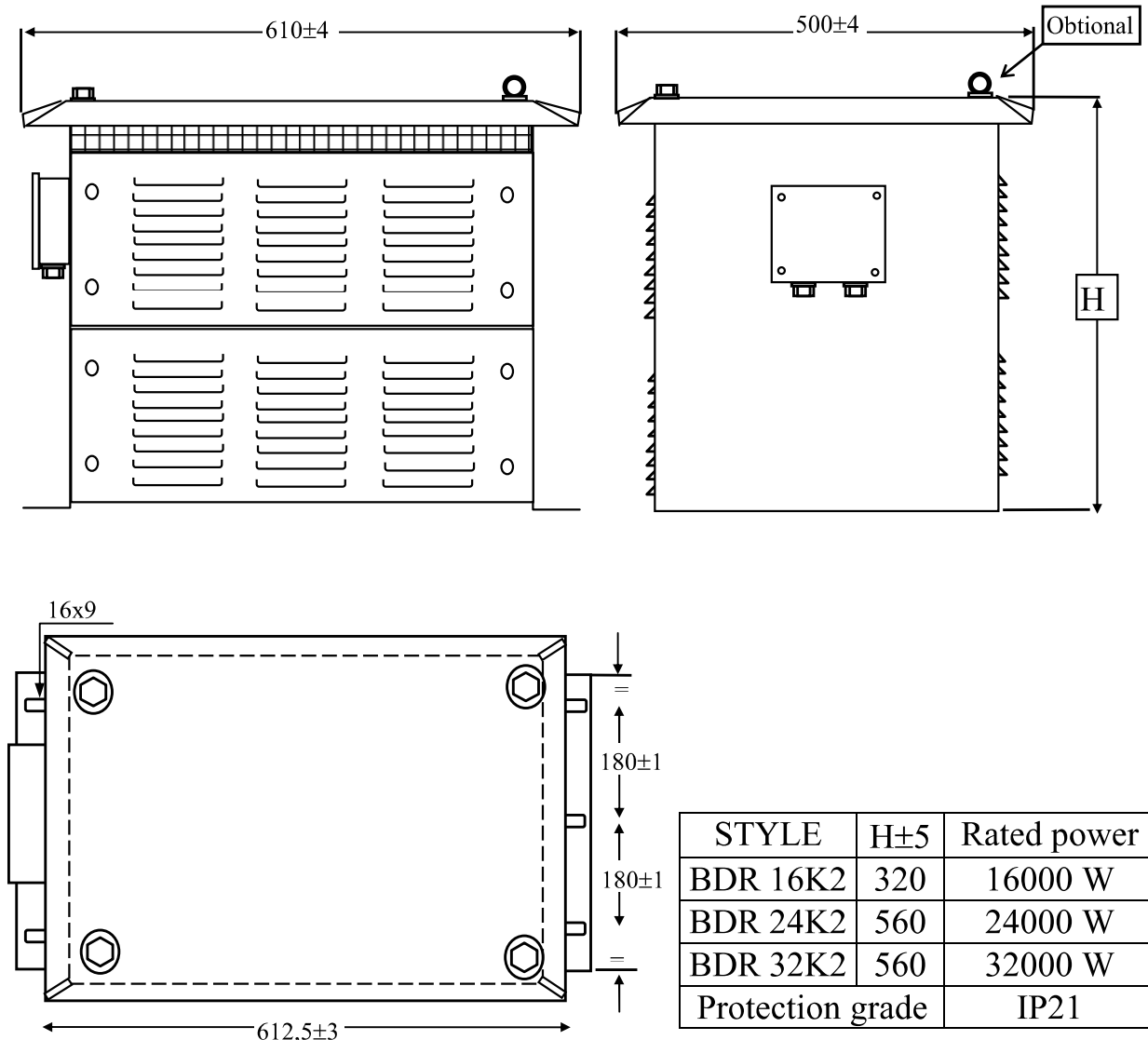
Page 1 of 3

DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta
Revision 0 20.9.2001

Emission DT 20.9.2001

BRAKE RESISTOR IN METALLIC CASE mod. BDR.



1. DESCRIPTION

When in the dynamic braking, the required continuous power is beyond 12.000W, it is necessary a protected resistors group that may be employed like an independent unity.

The resistors type BRR are resistors with a metallic case, giving a IP21 protection grade, studied to meet this exigency.

The finishing surface of the metallic box is white zinc-plated.

2. GENERAL CHARACTERISTICS

A resistors group suitable to stand to the required load or impulses duty cycle is mounted in a metallic case equipped with protected opening suitable to facilitate the natural ventilation.

On the side there are a clamp box with a removable cover to let attain to the clamp to connect the resistor.

The main characteristics are:

S.I.R. Società Italiana Resistor
I 21053 Castellanza - Via Isonzo 13
Tel.0331.504.828 - Fax 0331.504.565



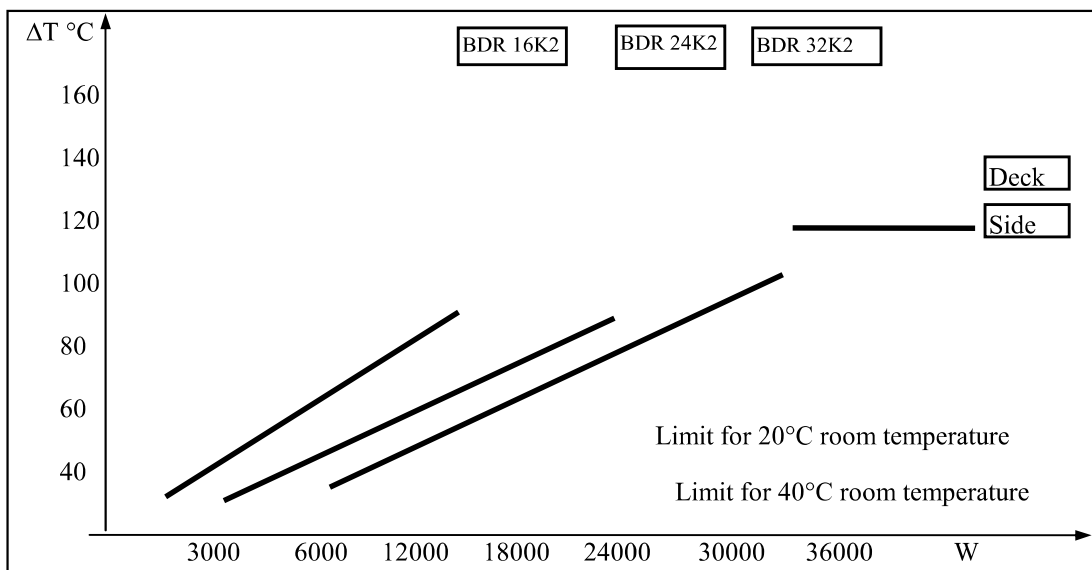


BRAKE RESISTOR IN METALLIC CASE mod. BDR.

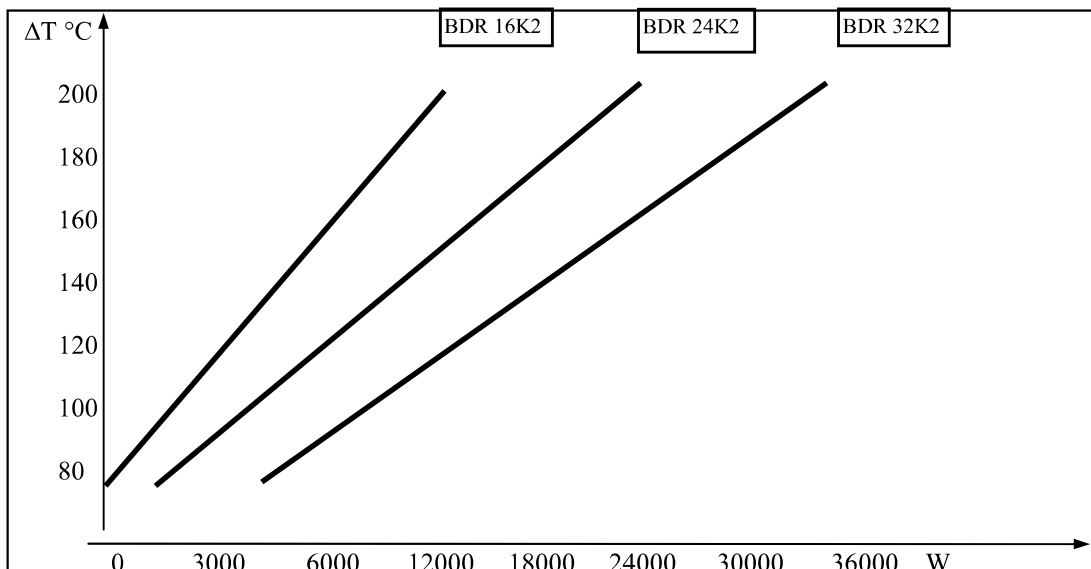
2.1 Dielectric strength (1'@ 50Hz)	4.500 rms (resistors/case)
2.2 Isolation resistance (@ 1000V)	> 10.000 MΩ
2.3 Resistance range	2 350 Ω
2.4 Tolerance	± 5%
2.4 Overload	5 times the rated power for 10''
2.6 Connecting clamps	Resistor N° 2 Earth N° 1 Thermostat (optional) N° 2

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

2.6 Graph Load/case over temperature



2.7 Graph Load/Outlet over temperature



S.I.R. Società Italiana Resistor
I 21053 Castellanza - Via Isonzo 13
Tel.0331.504.828 - Fax 0331.504.565





N. 640348

DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta
Revision 0 20.9.2001
Emission DT 20.9.2001

Page 3 of 3

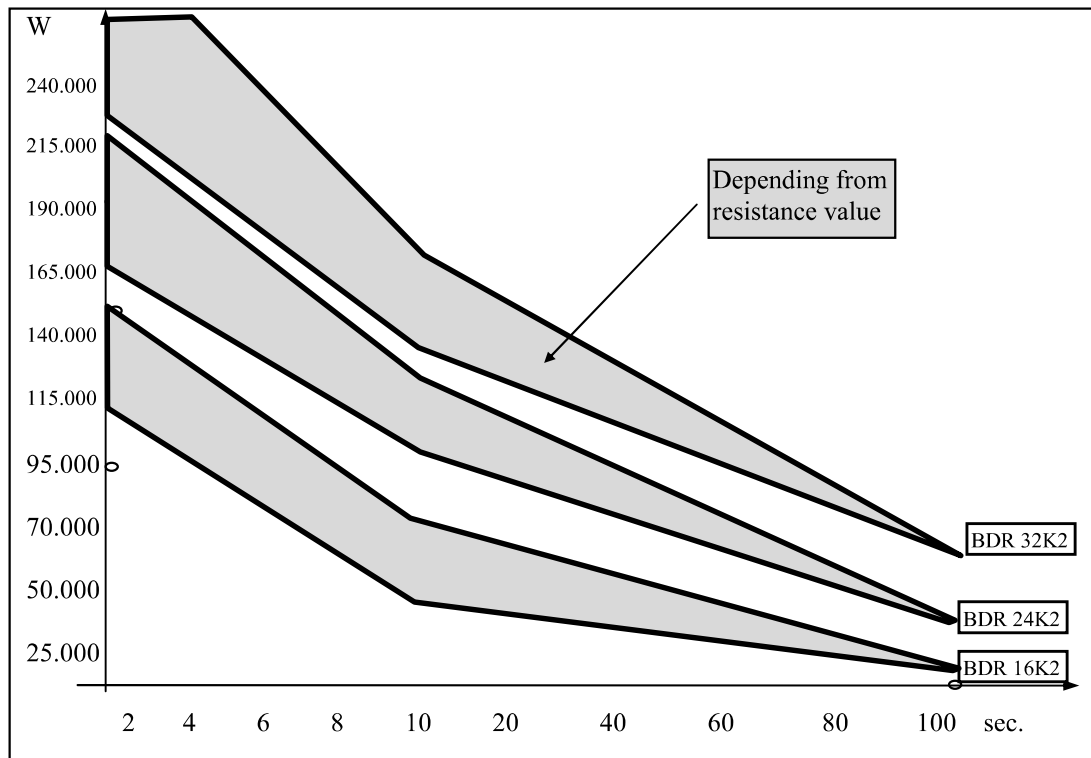
BRAKE RESISTOR IN METALLIC CASE mod. BDR

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



S.I.R. Società Italiana Resistor
I 21053 Castellanza - Via Isonzo 13
Tel. 0331.504.828 - Fax 0331.504.565

3. SPECIAL FEATURES

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

- 3.1 - with security thermostat (e.g. BDR16K2T)
- 3.2 - with non inductive winding. (e.g. BRRN16K2)
- 3.3 - with more resistance values (e.g. BDRP16K2)

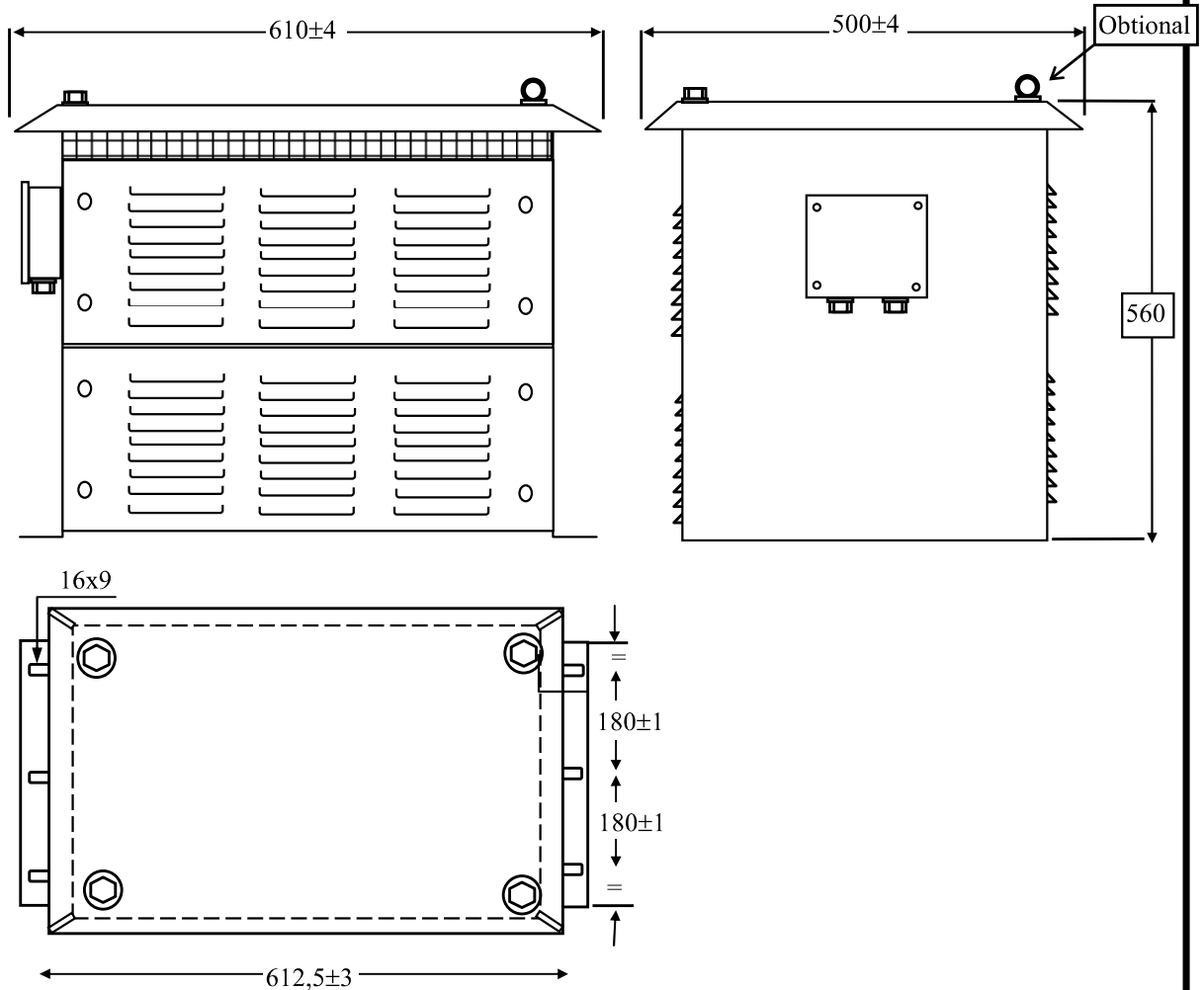


4. ASSEMBLING INSTRUCTIONS

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



POWER RESISTOR IN METALLIC CASE mod. BDR.48K2



1. FEATURE

This style of resistor represents the implementation of the BDR Style resistors (see data sheets 640340). The connecting clamps are at the internal of the case and they may be reached removing the lower panels.

2. ELECTRICAL CHARACTERISTICS

Power rating (Pr)	W	32 kW
Resistance value	Ω	2÷250
Resistance tolerance		$\pm 10\%$
Isolation resistance @ 1000 V _{DC}	M Ω	≥ 1000 M Ω
Dielectric strength @ 50 Hz for 1'	Vrms	4.000

