



N. 640330

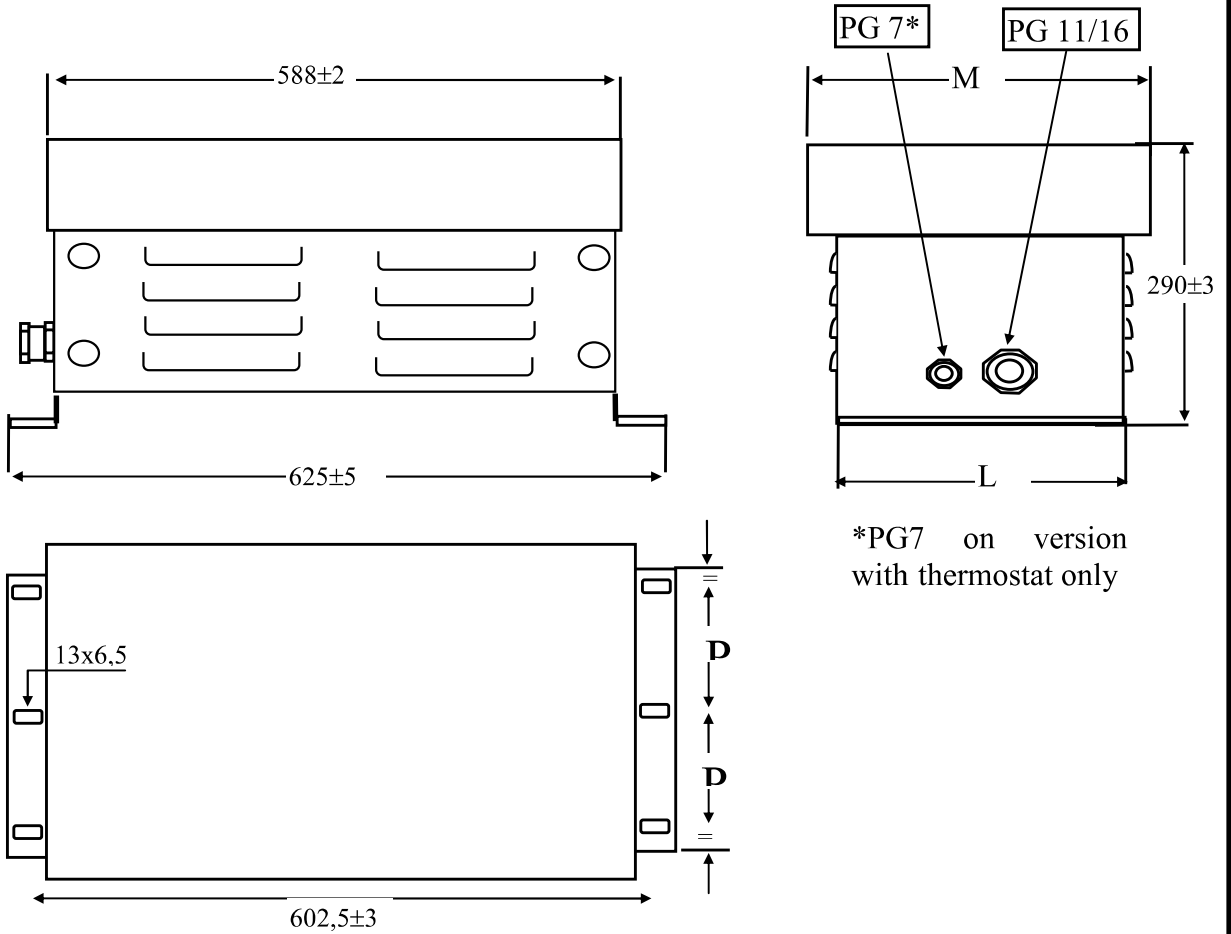
foglio 1 di 3

DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta

Revision 1 16.05.1997
Emission DT 14.01.1997

BRAKE RESISTOR IN METALLIC CASE mod. BDR.



*PG7 on version with thermostat only

| STYLE | L | M | P | Rated power |
|----------|-----|-----|----|-------------|
| BDR 4K1 | 100 | 140 | 40 | 4000 W |
| BDR 8K1 | 160 | 200 | 60 | 8000 W |
| BDR 12K1 | 200 | 240 | 80 | 12000 W |

1. DESCRIPTION

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

The resistors type BRR are resistor with a metallic case, giving an IP23 protection grade, studied to meet this exigency.

The finishing surface of the metallic box is white zinc-galvanised but is possible to achieve the varnished version (RAL7032).

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. Removing a side it is possible to attain to the clamp to connect the resistor.

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





N. 640330

foglio 2 di 3

DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta

Revision 1 16.05.1997
Emission DT 14.01.1997

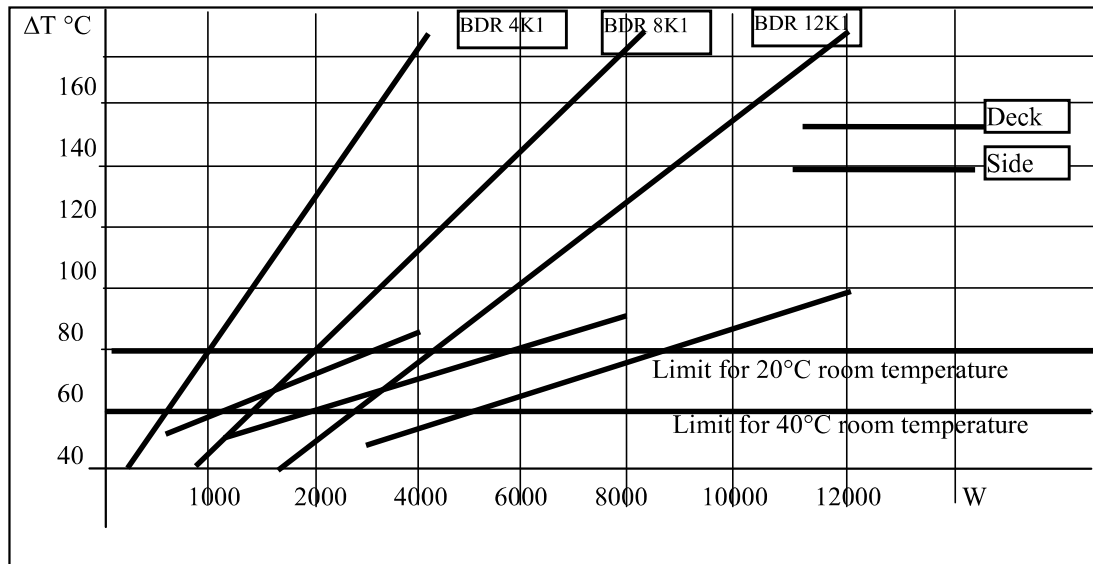
BRAKE RESISTOR IN METALLIC CASE mod. BDR.

The main characteristics are:

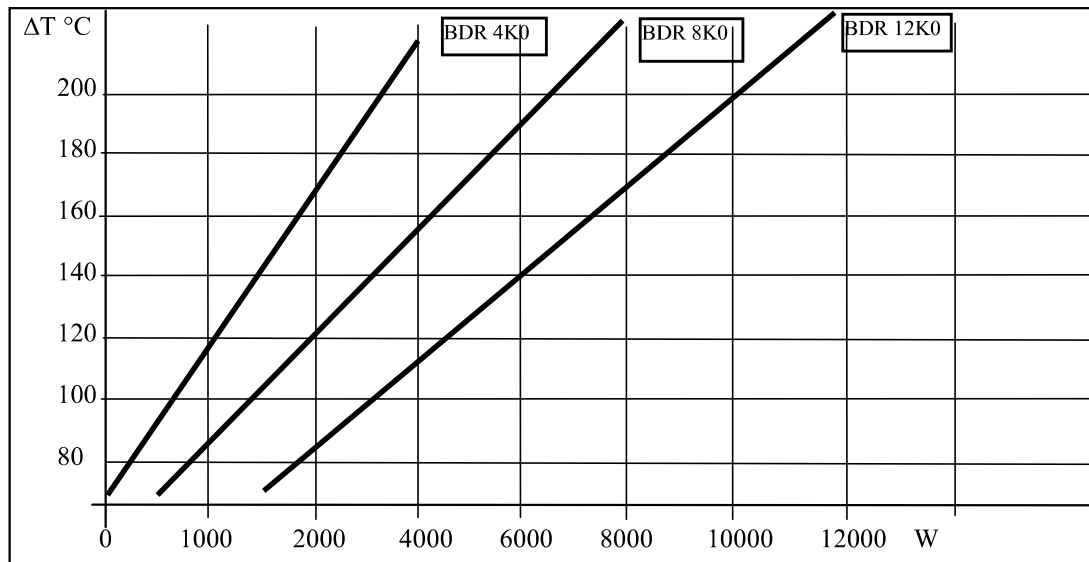
| | | |
|-------------------------------------|----------------------------------|---------------|
| 2.1 Dielectric strength (1'@ 50Hz) | 4.500 rms (resistors/box) | |
| 2.2 Isolation resistance (@ 1000V) | > 10.000 MΩ | |
| 2.3 Resistance range | 2 150 Ω | |
| 2.4 Tolerance | ± 5% | |
| 2.4 Overload | 5 times the rated power for 10'' | |
| 2.6 Connecting clamps (on resistor) | Resistor | N° 2 M5 screw |
| | Earth | N° 1 M4 screw |

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. 640330

foglio 3 di 3

DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta

Revision 1 16.05.1997
Emission DT 14.01.1997

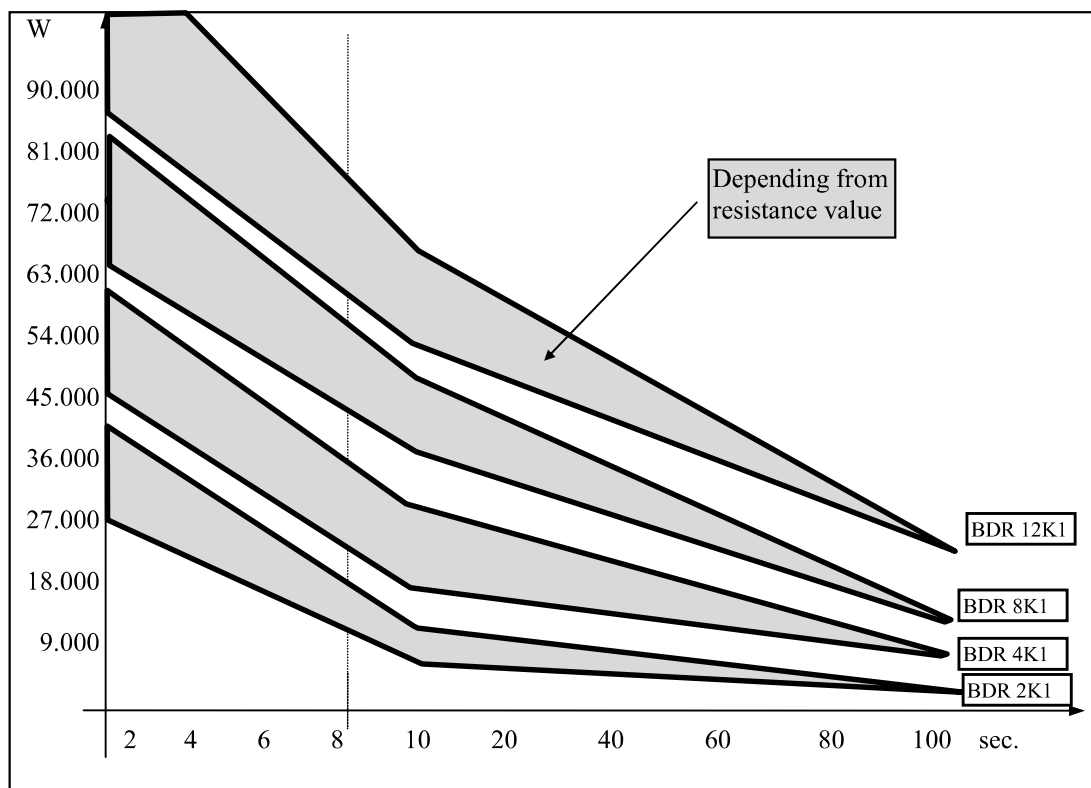
BRAKE RESISTOR IN METALLIC CASE mod. BDR

NOTE -

The limits fixed by the dotted lines, show the maximum admitted load to avoid the temperature of case 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. BDR4K1T)

3.2 -with non inductive winding. (e.g. BRRN4K1)

3.3 -with more resistance values (e.g. BDRP4K1)

4. ASSEMBLING INSTRUCTIONS

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

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

