



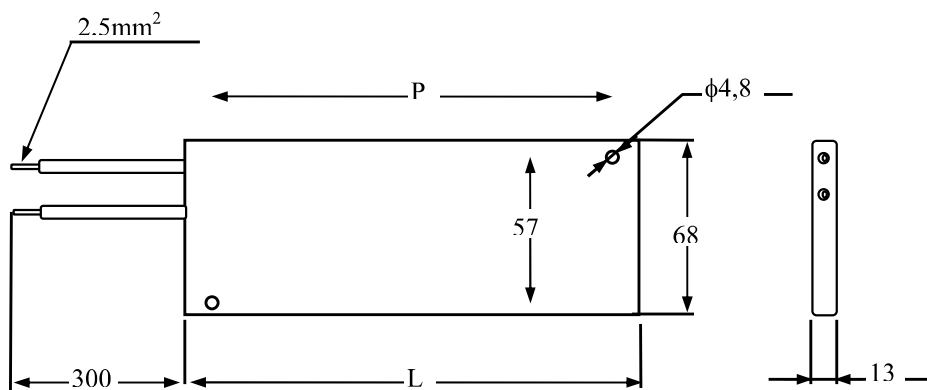
N. 590390

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# DATA SHEET

Approval Walter Cerutti  
 Verified Mauro Pellegatta  
 Revision 1 01.09.1999  
 Emission DT 01.09.1996

## ZINC PLATED STEEL HOUSED POWER WIREWOUND RESISTORS STYLE SRF 600 SRF 900 SRF 1300



STYLE	L	P	POWER* W
SRF 600	102	81	600
SRF 900	145	124	900
SRF 1300	195	174	1300

\*On heat sink

### 1.FEATURES

The SRF style is the most popular version of brake resistor and in time more than 200.000 inverters were equipped with this resistor style.

They are a range of good quality products with a case in zinc plated steel, designed to achieve a good level of protection (IP33) and a good dielectric strength.

The special construction technology makes use only of inorganic materials so as to permit confidence of use beyond 350°C and to ensure a good endurance to adiabatic impulses and to thermal dissipation, in spite of the reduced dimensions.

These characteristics and the mounting facility make this SRF style an appropriate choice where high reliability is required even in heavy duties as:

- brake resistors
- inverter  
- capacity discharge
- snubber

In order to achieve the correct performances of the resistor, we advise the use of a suitable heat sink.

S.I.R. Società Italiana Resistor  
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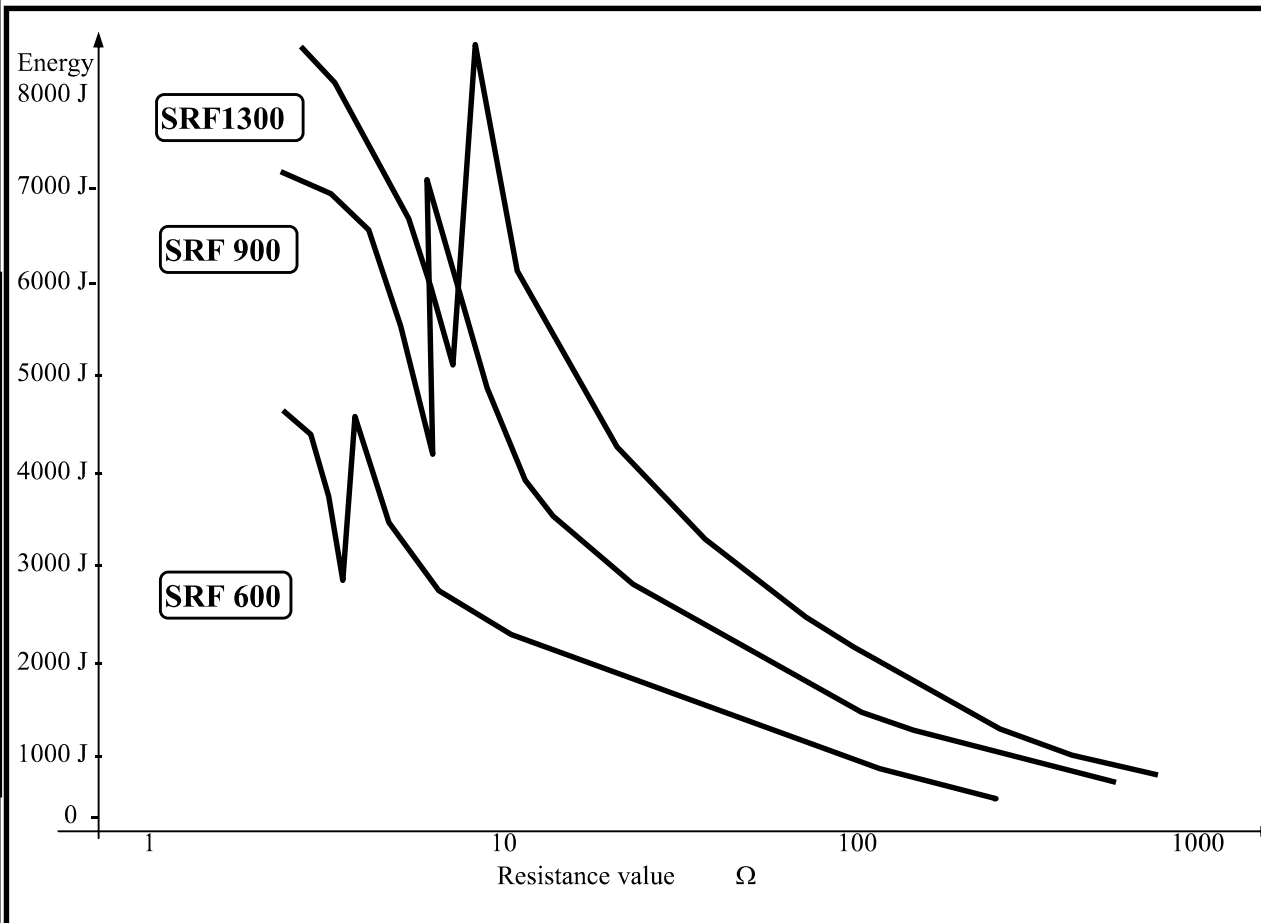
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## 2. ELECTRICAL SPECIFICATIONS

Characteristics	SRF 600	SRF 900	SRF 1300
Power rating (Pr) (with 0,5°C/W heat sink)	600 W	900 W	1300 W
Temperature rise @ Pr	390°C	390°C	390°C
Max. power without heat sink	300 W	450 W	550 W
Max. power on water cooled heat sink	650 W	950 W	1400 W
Absorbed energy @ 250°C ΔT	35.000 J	50.000 J	75.000 J
Absorbed energy in 5" overload	15.000 J	22.000 J	30.000 J
Resistance range	2   150 Ω	2   250 Ω	3.3   350 Ω
Resistance tolerance	±5%	±5%	±5%
Parasitic capacity (@1kHz)	90pF	110pF	150pF
Max. working voltage	1000 V	1000 V	1000 V
Isolation resistance @ 1000 VDC	≥500 MΩ	≥500 MΩ	≥500 MΩ
Dielectric strength @ 50 Hz for 1'	3.000 Vrms	3.000 Vrms	3.000 Vrms
Thermal time constant	10'	10'	10'

## 3. Max. adiabatic impulse in relation to the resistance value



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