



N. 570310

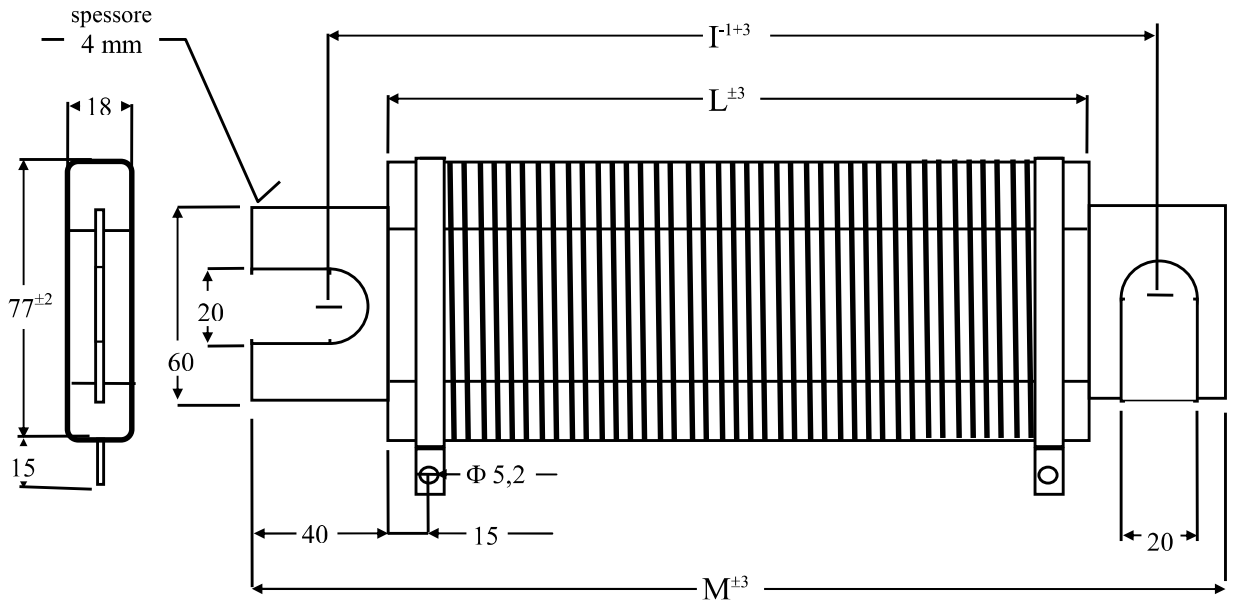
foglio 1 di 2

FOGLIO DATI
DATA SHEET

Approval Walter Cerutti
Verified Mauro Pellegatta

Revision 2 21.5.1998
Emission DT 16.01.96

HIGH POWER WIRE WOUND RESISTORS ON METALLIC BAR
Mod. RDP



1. SPECIFICATION

Dimensions	RDP 70.240	RDP 70.300	RDP 70.360	RDP 70.420	RDP 70.480
I mm	280	340	400	460	520
L mm	240	300	360	420	480
M mm	320	380	440	500	560

The SIR RDP style is a range of high power resistors, designed to obtain very high power resistors groups by stacking many resistor units.

These characteristics make the resistors RDP very valuable for the applications where high reliability is required even in heavy duties as:

- dynamic braking
- capacitor charge limiting
- snubber resistors
- inverter
- traction general employment

The rated power of RDP is especially elevated, and this characteristic is obtained by using special materials able to withstand temperature higher than 600°C, without damage.

The support bar may be supplied in stainless steel, on request.

This Data sheet will provide, with the necessary pieces of information and application notes, for a first definition of a required resistor.

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foglio 2 di 2

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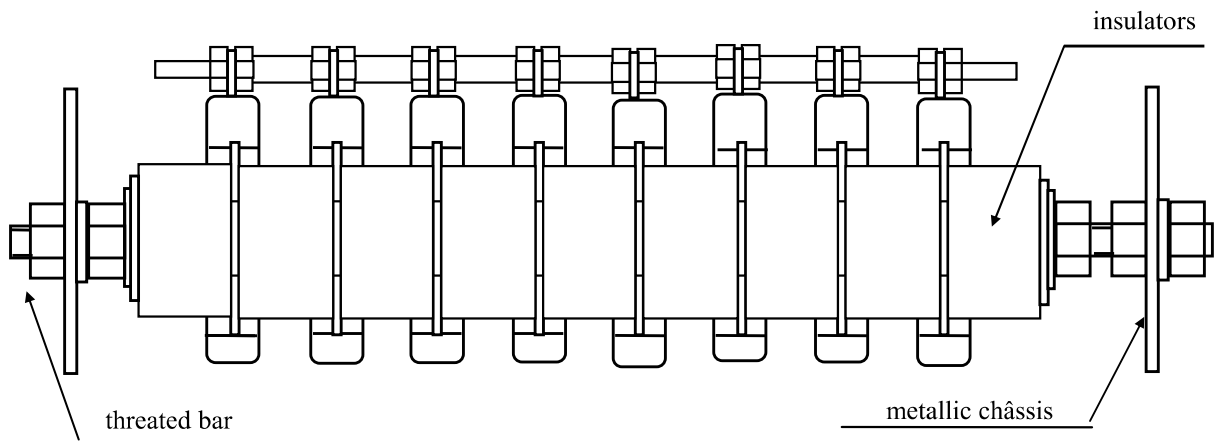
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2. ELECTRICAL SPECIFICATIONS

CHARACTERISTICS	RDP 70.240	RDP 70.300	RDP 70.360	RDP 70.420	RDP 70.480
Power rating (Pn) W	600	750	900	1050	1200
Surface temperature rise @ Pn °C	365°C	375°C	375°C	380°C	380°C
Max.Power W	700	850	1050	1250	1600
Resistance range Ω	1 30	1 38	1 45	2 54	2 61
Tolerance for Resistance values	±5%				
Inductance @ 1.000 Hz ∞H (Stainless steel bar execution only)	60 600	70 750	80 900	90 1000	100 1200
Limiting element voltage V	3.500				
Insulation resistance @ 1000 V _{DC}	≥10.000 MΩ				
Dielectric strength @ 50Hz per 1'	4.000Vrms.				

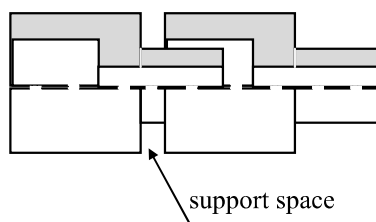
3. STACKING

The following sketch give a idea how to stack some resistors units to achieve a group.

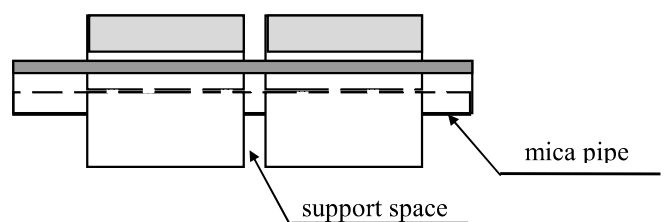


Insulators may be like the following figure.

Dielectric strength 6000V.



Dielectric strength 12000V



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