



GRID POWER RESISTORS MODEL RAG_OBGR

GENERAL CHARACTERISTICS

Protected-construction resistor assembled in banks with high specific power, available in both single-phase construction (typically used for braking large inverter-driven motors or as an earthing resistor for systems with operating voltages up to 1000V) and three-phase (as a load bank or as a step starting bank for wound-rotor motors).

The specific configuration of the grid elements making up the bank gives this resistor particularly quiet operation during braking when the latter is controlled by a chopper, and at the same time high mechanical strength, which makes it particularly suitable for use in all those applications where vibrations or shaking may occur (for example on overhead cranes).

The high mass of the active parts makes the RAG_OBGR model the ideal resistor whenever large amounts of energy need to be absorbed in a short time, as for example in the emergency braking systems of wind power plants.

Where thermal protection is required, an adjustable thermostat can be applied on request.

For installation in particularly aggressive environments, containment enclosures with a higher degree of protection can be supplied, with either standard or special finish (stainless steel or painted).



ELECTRICAL CHARACTERISTICS

Standard tolerance	± 10%
Temperature coefficient	Depending on the type of material used
Maximum Applicable Voltage	1000 V a.c.
Insulation resistance	> 100 Mohm (1000 Vdc)
Working temperature limit	+500 °C (800 °C for pulses depending on the alloy used)
Types of available materials	AISI 304
Connection	Directly on the resistor terminals
Cable access	Through flanges on the closed IP20 bottom
Degree of protection	IP 20 ÷ IP 23

OPTIONAL ELECTRICAL CHARACTERISTICS

Type of material	AISI 430 or FeCrAl
Connection	On copper bars or terminals
Standard degree of protection	IP 30 ÷ IP 33

OPTIONAL

Application of a bulb thermostat.

Possibility of providing fixed intermediate taps.

Non-standard tolerance on the cold ohmic value.

Powder-coated enclosure, different RAL shades on request.

Paint grade up to C5-VH.

STAINLESS STEEL enclosure.

Higher IP degree of protection up to IP55 (in this case the enclosure type is custom designed and the dimensions differ from the standard indicated) (depending on the operating cycle).

MAXIMUM LOAD LIMIT

The rated power P_n is considered for a resistor with standard degree of protection, in free air circulation, at an ambient temperature of 40°C.

With forced ventilation, the rated power the resistor can dissipate increases as a function of the air speed (custom dimensional study).

TECHNICAL CHARACTERISTICS

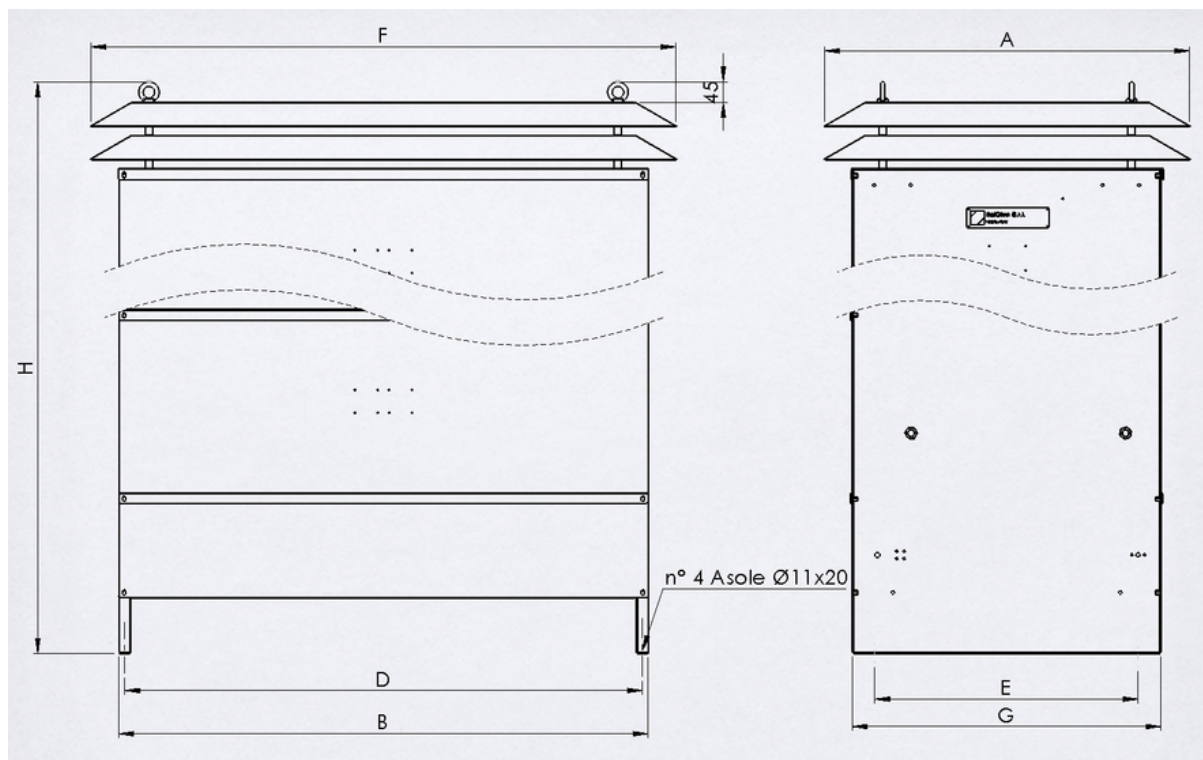
MOD. RAG OBGR	P _N (*)	RESISTANCE Range of indicative values (**)	RATED VOLTAGE a.c.	WEIGHT (***)	NOMINAL DIMENSIONS [mm]						
	[kW]	[Ω]	[V]	[kg]	A	B	D	E	F	G	H
RAG 1.1	14	From 0.005 to 28.8	≤ 1000	60	802	610	585	577	704	676	805
RAG 1.2	24	From 0.003 to 48	≤ 1000	75	802	860	835	577	954	676	805
RAG 1.3	33	From 0.0021 to 67.2	≤ 1000	90	802	1160	1135	577	1284	676	805
RAG 2.1	26	From 0.0025 to 57.6	≤ 1000	75	802	610	585	577	704	676	1350
RAG 2.2	44	From 0.0015 to 96	≤ 1000	95	802	860	835	577	954	676	1350
RAG 2.3	62	From 0.001 to 134	≤ 1000	115	802	1160	1135	577	1284	676	1350
RAG 3.1	37	From 0.0016 to 86.4	≤ 1000	95	802	610	585	577	704	676	1760
RAG 3.2	62	From 0.001 to 144	≤ 1000	115	802	860	835	577	954	676	1760
RAG 3.3	87	From 0.0007 to 201	≤ 1000	140	802	1160	1135	577	1284	676	1760

(*) Values referred to a maximum ambient temperature of 40°C with free air circulation

(**) Non-standard ohmic values can be produced on request

(***) The weight is to be considered as an average value; the actual weight may differ from the one indicated depending on the thickness and type of grids installed

DIMENSIONAL CHARACTERISTICS



MOUNTING ARRANGEMENTS

