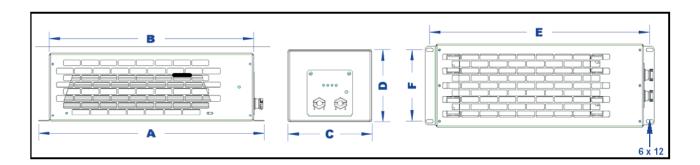




## ALUMINIUM CASE BRA-KING RESISTORS MODEL HWG

## TECHNICAL DESIGN



## **GENERAL FEATURES**

High power resistors of series HWG are resistor subassemblies which are characterized by their high impulse strength. They comprise up to 4 pieces of the wire wound high power resistors VHPR which were developed for their function as brake resistors. The protection against accidental contact is ensured with a housing out of sendzimir zinc coated steel plate with inner connecting terminals. The feeding of line is ensured by a metric screwed cable gland. The system of protection IP 65 of the single resistor elements makes the use possible also in difficult climatic conditions. A temperature control is available on request.

On request: special desires of customer as leads, tap/circuit, inductivity, capacity, thermal control, etc.

Type: HWG			VHPR 100		VHPR 200		VHPR 300		VHPR 400		VHPR 500	
Style		٧	Н	V	Н	٧	Н	٧	Н	٧	Н	
Housing dimensions (mm)		Α	245		295		345		395		445	
	Nr. of VHPR	В	207		257		307		357		407	
		D		95	95	120	95	120	95	120	95	120
	1	$C_1$		70	95		95		95		95	
	2	$C_2$				140		140		140		140
	3	C <sub>3</sub>				230		230		230		230
	4	C <sub>4</sub>				300		300		300		300
Fixing dimensions (mm)		E	228		278		328		378		428	
	1	F <sub>1</sub>		50	70		70		70		70	
	2	F <sub>2</sub>				120		120		120		120
	3	F <sub>3</sub>				210		210		210		210
	4	F <sub>4</sub>				280		280		280		280
Mounting position												



## **GENERAL FEATURES**

HWG's types with	VHPR 100	VHPR 200	VHPR 300	VHPR 400	VHPR 500			
		R10	R15	R20	R25	R30		
Resistance range *) <sup>1</sup>	Ω	1K4	- 2K5	3K3	- 4K7	- 7K5		
Resistance tolerance *) <sup>1</sup>	%	F (1%); G (2%); J (5%); K (10%)						
Temperature coefficient *) <sup>1</sup>	10 <sup>-6</sup> K <sup>-1</sup>	-80 200						
Insulation resistance *) <sup>2</sup>	МΩ	> 20						
Operating voltage Ub *) 4	Vac f=50Hz	<= 1000						
Testing voltage Up	Vac f=50Hz 1min.	4000						
Power rating P <sub>40</sub>	W	100	200 to 800	300 to 1200	400 to 1600	500 to 2000		
Derating of power	Lineare	From 40 °C = $P_N$ to 200 °C = 0,25 $P_N$						
Max. impulse energy *) 4	kWs	10						
Protection level of resistor element	-	IP 65						
Protection level of resistor subassembly		IP 20						
Climatic category (IEC 68-1)	-	40 / 155 / 21						
Temperature range	°C	-40 200						
Long term test (P <sub>N</sub> 40 °C 1000h)	%	3						
Long term environmental test (IEC 115-1/23)	%	2						
Periodical change of temperature (IEC 68 2.14	) %	2						
Kind of terminal	-	connecting terminals inside						
Weight	g (ca.)	On request						

Leads cases (different lenghts, styles and insulations are possible)

<sup>\*)</sup>¹ - without cables
\*)² - Voltage = 1000 VDC
\*)³ - as a function of the resistance
\*)⁴ - Silicon/white PTFE white, black or brown, referring to the required operating voltage or testing voltage, lenght tolerance: ± 6 mm