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DIRECT **SIKES**

Power Transformers / Harmonic Filter / Sine Wave Filter / EMC Filter/
Reactor / Regenerative Brake / Braking Chopper / Power Braking Resistor/
Load test for generator, electric vehicle driver, motor controller, charging
station etc.

Aluminum Housed Resistor

Whole product portfolios of power braking solution can be offered.



We are developing and producing in China for the world.



GUANGDONG SIKES Electric Co.,Ltd.

SIKES
18 YEARS OF
SUCCESS

Aluminum Housed Resistor Multi Unit

Descriptions

The ARXU series resistors with optional integrated thermal switch from our medium power range of Aluminium housed compact brake resistors are electrically insulated and with small dimensions to be fitted into compact constructions. They are jointed two or more aluminum resistors in parallel or in series to obtain required high power and resistance. This series is adding stainless plate shields and stands at the tow ends of traditional aluminum enclosure resistors in order to seal resistor properly.



Product Features

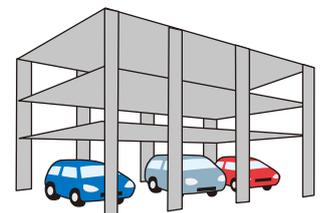
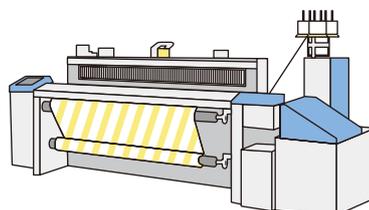
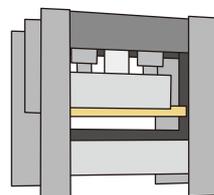
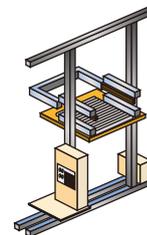
- Suitable for harsh environment;
- Aluminum enclosure with better protection ;
- Safer compared with open type wire wound resistor ;
- Long working life and high reliability ;
- Flexible for customize , can offer IP21 , IP33 , IP54 class protection ;
- High insulation class , use high Flame retardant inorganic material to assemble ;
- Excellent anti-vibration capability ;

Material Specifications

Element	Copper-nickel,nickel-chrome
Core	OCr25AL5
Enclosure	Aluminum
Standard terminals	Copper bar
Partmarking	Partnumber, value, date code, MRC

Applications:

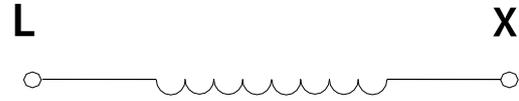
- Dynamic braking
- Motor Control
- Load Banks
- VFD/VSD/Servo Motor
- Cranes ,Hoists & Winches
- Conveyors
- Lifts & elevators
- Industrial robot control
- CNC
- Packing machine
- Printing



Technical Specifications

Power Range	10KW~50KW
Voltage Range	<1.2KV
Resistance Range	0.5R~1KR
Dielectric Strength	AC 3KV 50Hz / 5S
IP Protection	IP 20
Vibration	1.5g
Temperature Coefficient	≤400ppm/°C
Production Standards	GB8898-2011

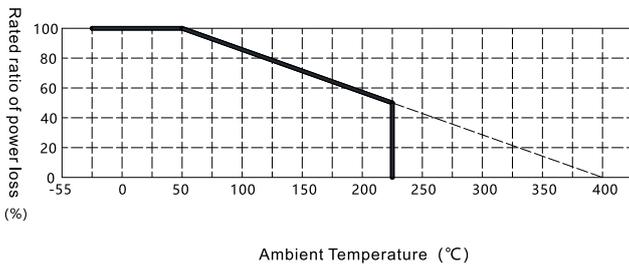
Electrical Schematic



Performance Test

Test Item	Test Condition	Performance
TCR	Test resistance changing rate per degree vary +30°C~+100°C	±400PPM/°C
Short time overload	With 10 times rated power or max working voltage(lower value) for 5s	$\Delta R \leq \pm (2\%R + 0.05\Omega)$
Sn-heat	In the sn-tin of 350 ± 10°C for 2~3s	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Solderability	In the Sn-tin of 245 ± 10°C for 2~3s	
Temperature cycle	Under the 5 cycles of the -55°C for 30 min, 125°C for 10~15 min, and the 25°C for 10~15 min	$\Delta R \leq \pm (1\%R + 0.05\Omega)$
Aging of Humidity	In the box of 40±2°C and 90-95% humidity, with rated voltage or Max Working Voltage(Lower Value), total time 1000 hours(ON-1.5H, OFF-0.5H)	$\Delta R \leq \pm (5\%R + 0.05\Omega)$
Aging at Rated power	In the 70±2°C test box, With the rated power or max working voltage(Lower value), total 1000hours(ON-1.5H, OFF-0.5H)	$\Delta R \leq \pm (5\%R + 0.05\Omega)$
Inflammability	With the 5/10/16 times rated power for 10s	No obvious flame

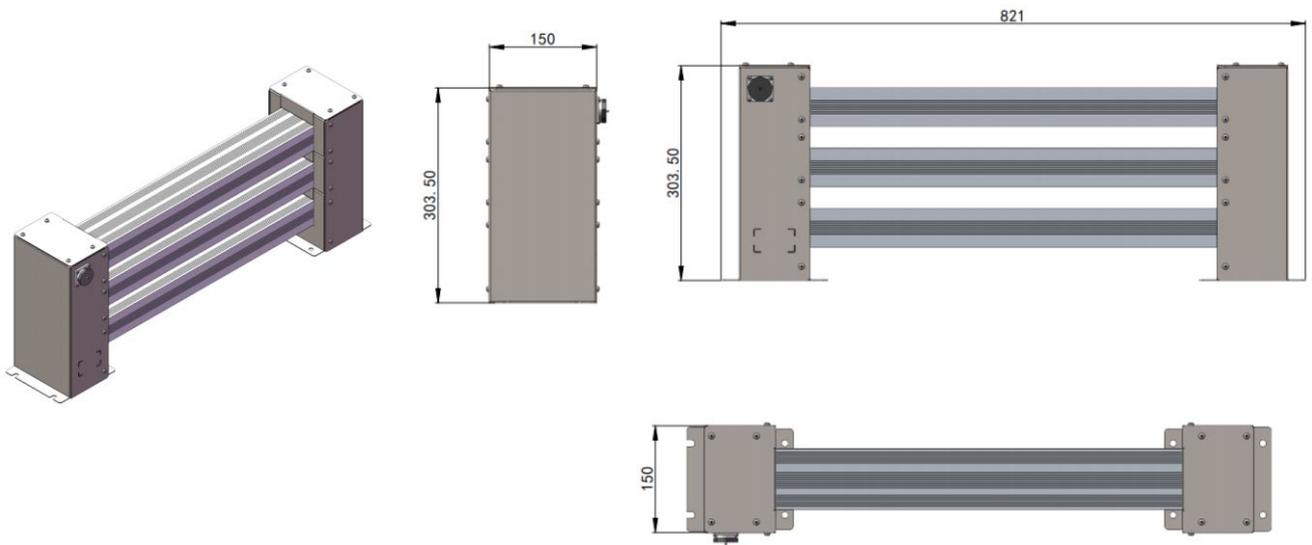
Derating Curve



Selection Table

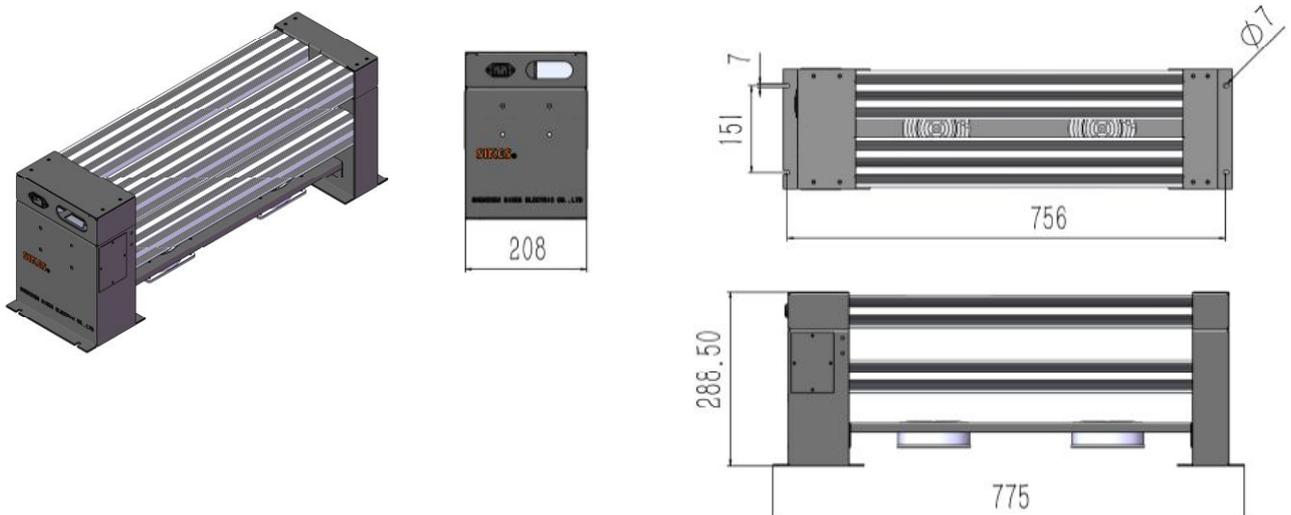
Type	Rated Power (KW)	Picture NO.	Weight (KG)	Resistance Range (Ω)	Connection
SKS-ARXU-10KW/XR	10	A	21	1 Ω -500 Ω	Copper bar
SKS-ARXU-12KW/XR	12	A	21	1 Ω -500 Ω	
SKS-ARXU-15KW/XR	15	B	24	1 Ω -500 Ω	
SKS-ARXU-20KW/XR	20	B	30	1 Ω -500 Ω	
SKS-ARXU-25KW/XR	25	C	36	1 Ω -500 Ω	
SKS-ARXU-30KW/XR	30	C	42	1 Ω -500 Ω	
SKS-ARXU-35KW/XR	35	D	48	1 Ω -500 Ω	
SKS-ARXU-40KW/XR	40	E	54	1 Ω -500 Ω	
SKS-ARXU-50KW/XR	50	E		1 Ω -500 Ω	

Product Size



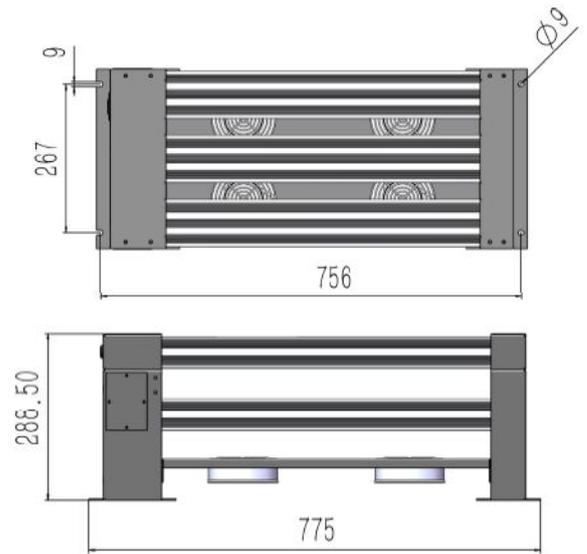
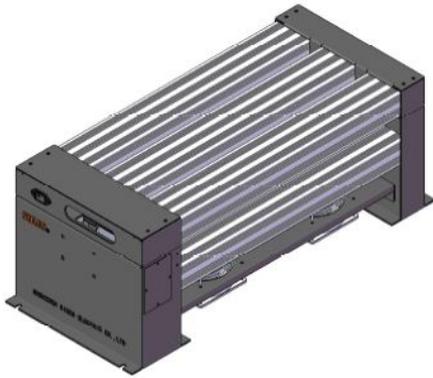
IP54

Picture A



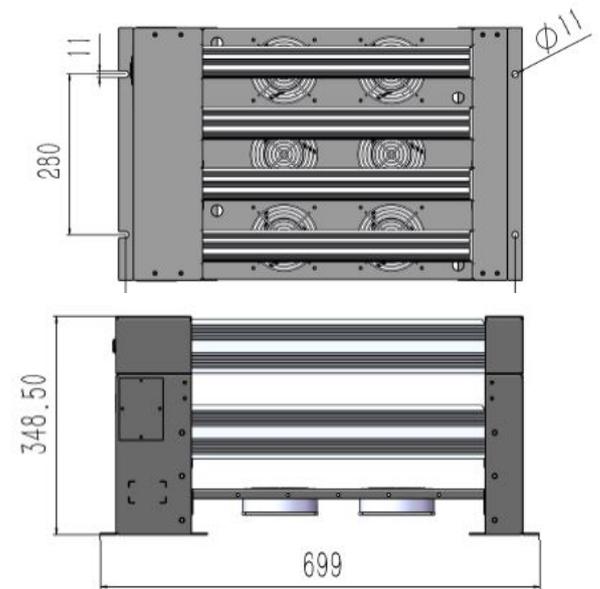
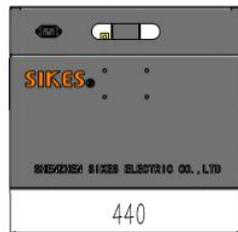
IP20

Picture B



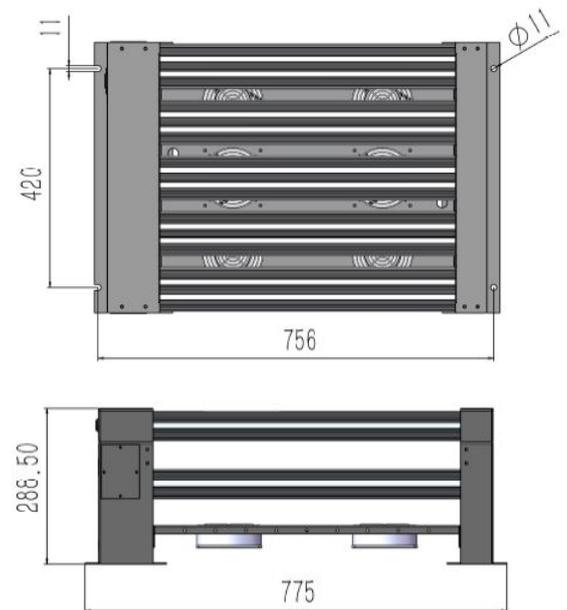
IP20

Picture C



IP20

Picture D

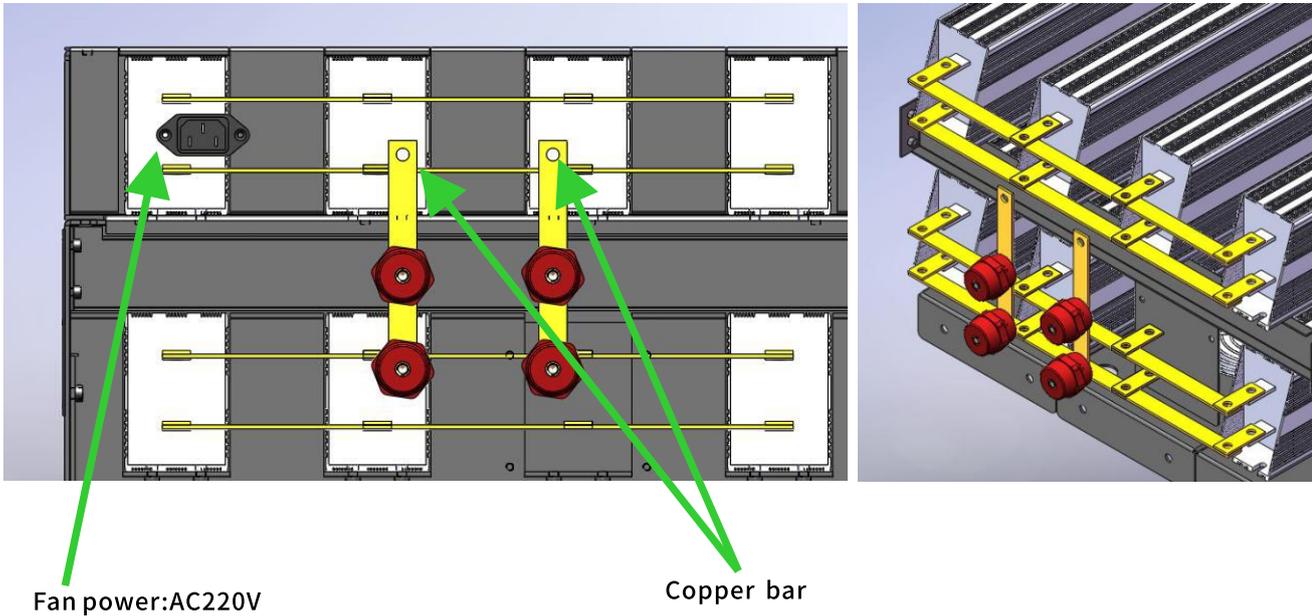


IP20

Picture E

Installation Guidance

- Check the outlook of the resistor , see if there any damage;
- Connect the Fan power with AC220V.
- Connect the copper bar with Inverter DC bus line.



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