



Electromechanical components



Insulating spacers

Polyamid (PA) spacers are heat-resistant to constant operating temperature of +130 celsius and melting temperature of +260 celsius. Spacers are manufactured with injection molding method having better tensile strength compared to products made by ultrasonic welding. Ceramic models are heat-resistant up to +800 celsius. Check availability of ceramic models separately.

There is over 100 standard spacer models available and new customized models may be designed for specific customer needs.

Typical use applications:

Use applications are found in electronics assemblies and other applications where electrical insulation and mechanical support structure is needed.

Manufacturing of insulated spacers, cabinet heaters and metallic resistors for industrial electric machines since 1977.

Table for standard spacers:

D	LENGTH	MODEL	THREAD		THREAD L
D7	7-35mm	MM,FF,FM MM,FF FM	M F	M3 M3	7-15 mm 3-7 mm
D8	10-35mm	MM,FF,FM MM,FF FM	M F	M3,M4 M3,M4	8 mm 4-8 mm
D10	12-70mm	MM,FF,FM MM,FF FM	M F	M3 M4,M5 M3 M4,M5	8-12 mm 4-12 mm
D15	12-90mm	MM,FF,FM MM,FF FM	M F	M4 M5,M6,M8 M4 M5,M6,M8	4-20 mm 4-10 mm
D20	15-105mm	MM,FF,FM MM,FF FM	M F	M4 M5,M6,M8 M4 M5,M6,M8	4-47 mm 4-10 mm
D25	18-50mm	MM,FF,FM MM,FF FM	M F	M6, M8,M10,ML2 M6, M8,M10,ML2	5-30 mm 6-10 mm
D35	20-50mm	MM,FF,FM MM,FF FM	M F	M8,M10 M8,M10	10-30 mm 8-10 mm
WAF10 (hexagonal)	15-45mm	MM,FF,FM MM,FF FM	M F	M4,M5,M6 M4,M5,M6	4-15 mm 4-9 mm
WAF25 (hexagonal)	20-45mm	MM,FF,FM MM,FF FM	M F	M6, M8 M6, M8	10-30mm 6-10mm

MM= Male/Male,FF= Female/Female, FM= Female/Male, D= Outer diameter, WAF= Width across flats



Cabinet heaters

Self-regulating heaters are used in closed spaces to prevent the formulation of humidity and to heat the spaces in cold temperatures to ensure reliable operation of electrical, pneumatic and hydraulic components.

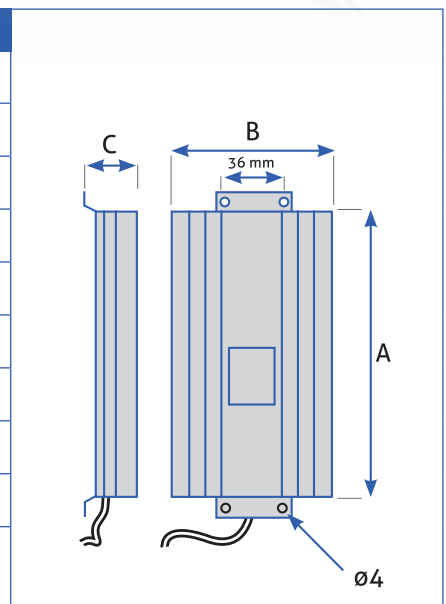
There are models for high voltage, normal voltage and low voltage uses. Also UL (United Laboratories) approved versions are available.

Typical use applications:

Control cabinet heating and industrial air heating applications.

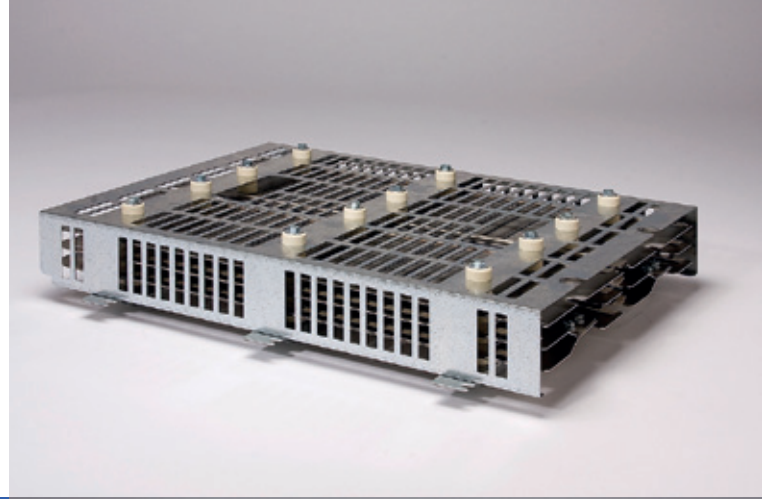
PTC element technical specification

Technical specification	SR 25	SR 50	SR 75	SR 100
Output	25W	50W	75W	100W
Voltage *	110-240 VAC, DC			
Max surface T **	70°C	70°C	90°C	100°C
Length (mm) A	100	100	150	150
Width (mm) B	90			
Height (mm) C	31			
Connection cord	Silicon conductor 3 x 0,75 mm ²			
Length	0,5 meters			
Fastening	35 MM DIN-standard mounting plate or screw			
Power output in environmental temperatures				



* optional 6 - 30V
 ** optional 40C° - 120C°

Contract manufacturing – over 1000 resistor variations already produced and new versions created for each customer need.



Metallic resistors

There are two main resistor categories in Heatterm selection, Power resistors and Heating elements. Power resistors have two application uses, Start & Brake resistors and Load resistors.

Power resistors

Start & brake resistors are primarily used in high current electrical motors to enable controlled starting and braking processes keeping the electricity network stable. Sometimes the surplus electrical energy from braking resistors is converted into heat energy for further use as heating railway wagons in winter time.

Load resistors are used for releasing great voltage loads in short time period.



Heating elements

Heating elements are used for heat treatment of different materials in various industrial uses as ceramic and glass melting ovens, melting of aluminium compounds and heat treatment furnaces.



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