

Metal box housed resistors

Terminals

Available inside the framework through nickeled brass PG9 on a terminal board

Mechanical characteristics

IP20, Naked wirewound resistor in galvanized steel enclosure

Applications

Dynamic braking, Starting motor

Market

Industrial Automation

Available enclosure

IP23, AISI 304

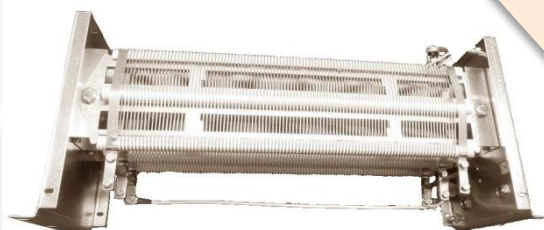
Options

Multiple sections, Thermal switch

RMX



4 ÷ 12 KW



ELECTRICAL CHARACTERISTICS

refers to room temperature 25°C

ID	Rated Power	Min Resistance	Max Resistance
Unit	W	Ω	Ω
RM 01X	4000	6.2	120
RM 02X	8000	3.3	240
RM 03X	12000	2.2	360

Dielectric strenght 50Hz; 60" 2500 V

Limit Voltage 700 V

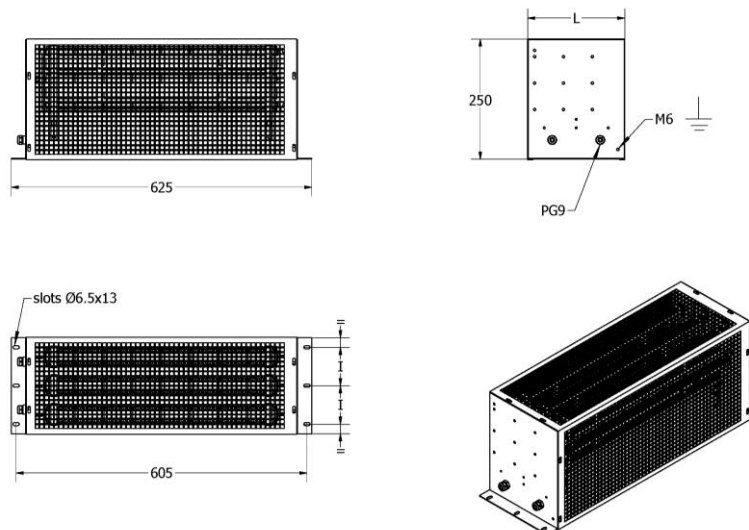
Temp. Coefficient Resistance: low ohmic value are made with active material CuNi44 that has a TCR of 40 ppm/°C, whereas high ohmic value refers to wire material FeCrAl that has a TCR of 70 ppm/°C. Resistors can be made also with NiCr alloys with TCR between 70 and 240 ppm/°C.
RMX internal resistor element is naked wire wound resistor RDP 540, refer to DS.0314.DP for technical information about RDP.
RM 01X contains 1 RDP540, RM 02X contains 2 RDP 540, RM 03X contains 3 RDP 540.
Standard tolerance on ohmic value $\pm 5\%$.
Picture above refers to RMT 03X IP00 without enclosure.

MECHANICAL DATA

Unit	I [mm]	L [mm]	Weight [kg]
RM 01X	40	102	5.7
RM 02X	60	162	8.3
RM 03X	80	202	11

Unless otherwise specified, applicable standard of general tolerances for linear and angular dimensions is ISO 2768-1 class c.

DRAWING



Marking

The resistor is marked on a name plate screwed on front panel
FAIRFIELD – RMX 4kW 15R 5% WW/YY (week / year)

Installation

Unit is designed to be mounted in horizontal position. Different mounting position may decrease the heat exchange.

Warning: never mount unit with the terminal uppermost.

Packing

The resistor is packed in a way to preserve incidental damages due to transport.

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Ordering information

RM/Y XXX WWW RRRR 5%

Y T : External thermal switch 160±5°C (rated voltage: 250 V; rated current: 16 A; leads available in clip)

XXX Model 01X, 02X, 03X

WWW Wattage 4 kW, 8 kW, 12 kW

RRRR Resistance value (nominal at 20°C)

Example

RMT 01X 4kW 15R 5%

RM is the name of the product

T means the clixon is provided

01X is the model

4 kW is the wattage

15R means 15 Ω that is the nominal ohmic value at 20°C

5% is the tolerance on the ohmic value, in this case the value of the resistor is accepted when is within 14.25 Ω ÷ 15.75 Ω