



POWER RESISTORS COOLED BY AUXILIARY HEATSINK (not supplied)

- Technology : metal foil on ceramic
- Cold system without external radiation
- High power/volume ratio
- Non-inductive
- Easy assembly, self-calibrated pressure (400N)

GENERAL CHARACTERISTICS

Dielectric base :	alumina
Resistant circuit :	metal foil
Encapsulation :	resin filled case
Ohmic values :	E12
Isulation :	10 ⁵ MΩ at 500 Vcc
Temperature coefficient :	± 150 ppm/°C
Temperature range :	-55°C to +125°C
Materials comply with the standard UL 94-V0	
NOMINAL POWER at 70 °C :	500 W
MAXIMUM POWER at 25 °C :	750 W
Min. ohm value :	0,27 Ω
Max ohm value :	18 Ω
Standard tolerance :	±10%

SPECIFIC CHARACTERISTICS

TYPE	500L	500	500H	500HV
Max. operating voltage between terminals	5000V			
Max.test voltage (Vrms 50 Hz 1 mn)	5000V	7000V	12000V	12000V
Creeep distance	42 mm	42 mm	42 mm	75 mm
Clearance distance	12 mm	12 mm	26 mm	30 mm
Capacitance / ground	120 pf			
Capacitance / parallel	40 pf			
Self inductance	≤ 40 nH			
Partial discharge	sur demande			
Weight	120g max			

COOLING

The temperature of the heatsink may be maintained at the specified values with :

- forced air ventilation
- internal circulation of a liquid cooling

Heatsink contact surface :

Ra 6,3 μ ▽▽

Evenness defect :

0,05 mm max

Surface temperature gradient (isotherm) :

20 °C max

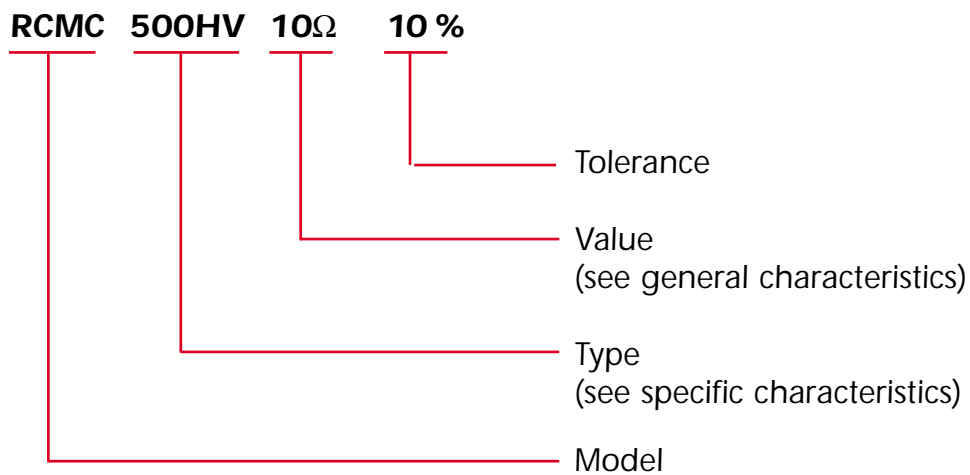
Thermal compound not supplied (Résistance $\leq 0,05^{\circ}\text{C} / \text{W} / 0,025\text{mm}$)

THE USER MUST SELECT THE THERMAL RESISTANCE OF THE HEATSINK
ACCORDING TO THE POWER APPLIED

OPTIONS

- Electrical terminals M5
- Other terminal size
- Output cable

HOW TO MAKE OUT YOUR ORDER



For information only and subject to amendment

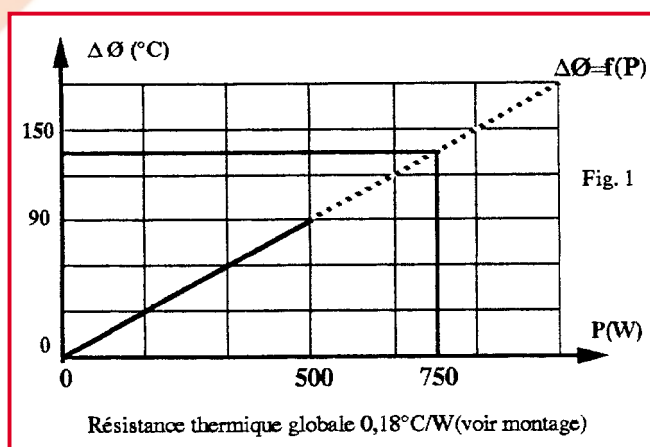


PERFORMANCES

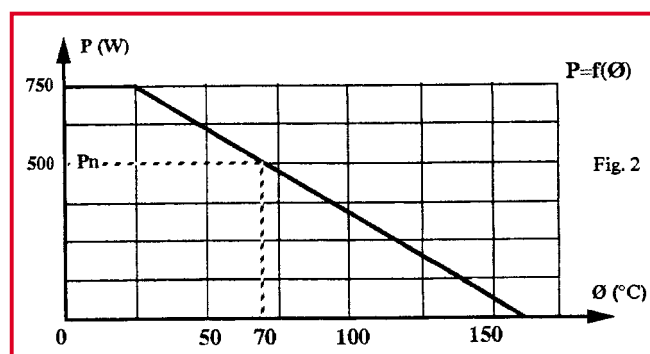
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES MCB Ind.
Overloads	1000W / 10 s	2 %	0,2 %
Damp heat	56 days 40°C 95% HR	2% or 0,05 Ω *	0,2 %
Shocks	40A / 4000	Isol > 10 ³ M Ω	0,25 %
Vibrations	500 / 10	0,5% or 0,05 Ω *	0,25 %
Terminals strength	200Ncm / 200N	0,5% or 0,05 Ω *	0,1 %
Endurance	2000cycles Pn 30mn / 30mn	1% or 0,05 Ω *	0,2 %

*The higher of either value

DISSIPATION



Temperature rise as a function of the power applied

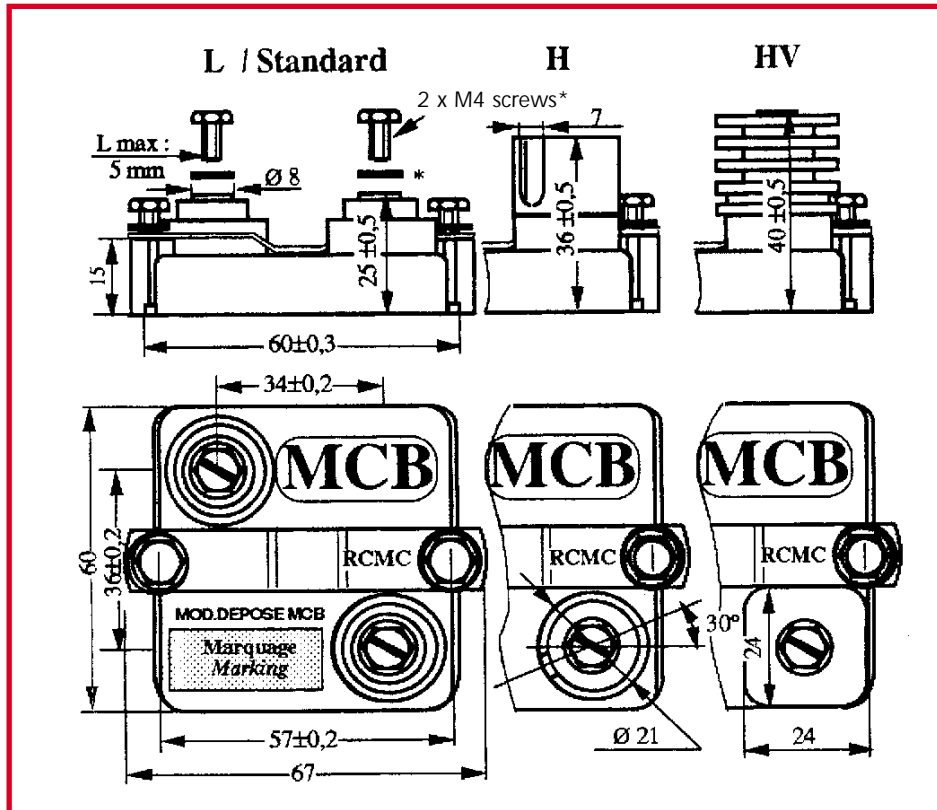


Permanent applicable power as a function of heatsink temperature
Intermittent overload (exceptional operating) : consult us

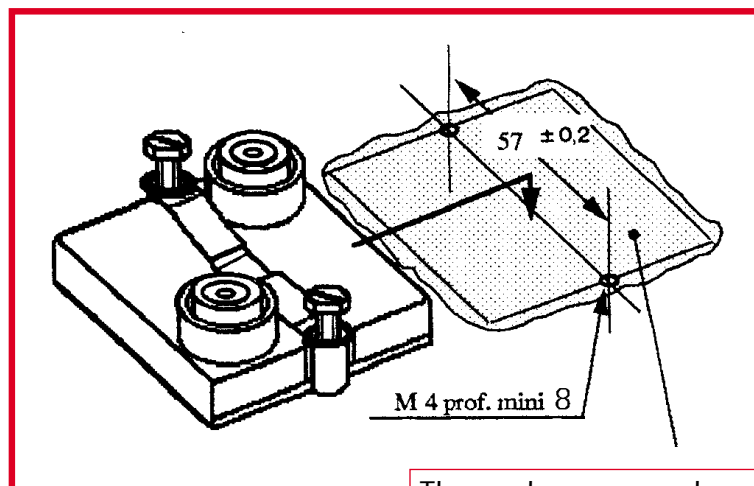
ENERGIE ADMISSIBLE

- Repetitive operation : 25 J / $T = 50 \mu s$
- Accidental operation : 100 J / $T = 50 \mu s$ / 100 impulsions max
- Other T values : consult us

ENCOMBREMENT



ASSEMBLY



Thermal compound
 Résistance $\leq 0,05 \text{ } ^\circ\text{C} / \text{W} / 0,025 \text{ mm}$
 See MCB Ind technical data sheet
 STRO08

Screws and bolts supplied
 Max. tightening torque : 200 Ncm, mechanical mounting
 200 Ncm, electrical connection