

POWER RESISTORS COOLED BY AUXILIARY HEATSINK (not supplied)

- Technology : thick film
- Cold system without external radiation
- High power/volume ratio
- Non-inductive
- Screw-on or fast-on outputs

GENERAL CHARACTERISTICS

Dielectric base :	alumina
Resistant circuit :	cermet
Encapsulation :	resin filled case
Ohmic values :	E12
Isulation :	10 ⁵ MΩ at 500 Vcc
Temperature coefficient of resistance :	± 250 ppm/°C
Temperature range :	-40°C to +125°C
Materials comply with the standard UL 94-V0	
NOMINAL POWER at 115°C :	25 W
MAXIMUM POWER at 100°C :	50 W
MAXIMUM POWER at 60°C :	100 W
Min. ohm value :	0,33Ω
Max ohm value :	1 MΩ
Standard tolerance :	± 10% / ± 5% on request

ADDITIONAL CHARACTERISTICS

Max.operating voltage between terminals :	1500 V
Withstand voltage (Vrms 50 Hz 1 mn) :	2500 V
Partial discharge :	on request
Creep distance :	10 mm
Clearance distance :	5,5 mm
Capacitance / ground :	36 pF
Capacitance / parallel :	12 pf
Self inductance :	≤ 50 nH
Weight :	20 g 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°C / W / 0,025mm)

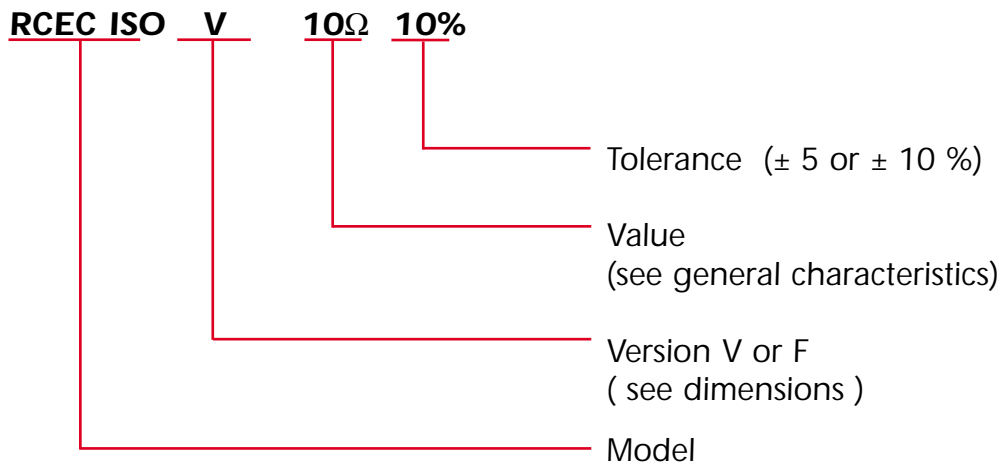
THE USER MUST SELECT THE THERMAL RESISTANCE OF THE HEATSINK
ACCORDING TO THE POWER APPLIED

See STR 014 recommendation sheet attached to each delivery
Power without heatsink, in air, at 25°C : 3,5 W

MECHANICAL ASSEMBLY

Head screw, low or normal height without washers
Max. tightening torque : 80 Ncm, mechanical mounting
130 Ncm, electrical connection

HOW TO MAKE OUT YOUR ORDER



For information only and subject to amendment

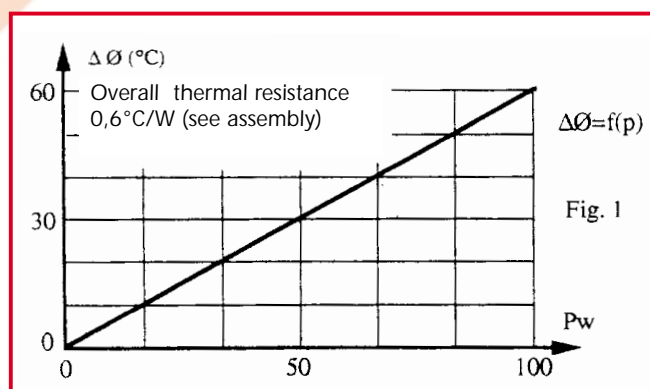


PERFORMANCES

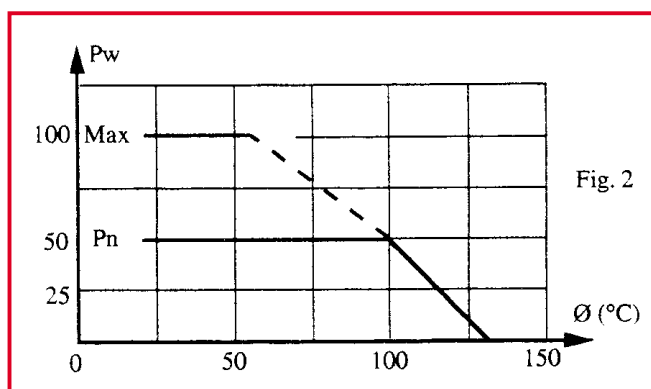
ESSAIS	CONDITIONS	SANCTIONS	VALEURS TYPIQUES MCB Ind.
Overloads	4 Pn / 10 s	2%	0,2 %
Damp heat	56 days 40°C 95% HR	2% ou 0,05 Ω /sol > 1 kM Ω	0,2 %
VRT	-40 +125°C 5cycles	2% or 0,05 Ω *	0,2 %
Shocks	40A / 4000	0,5% or 0,05 Ω *	0,25 %
Vibrations	500 / 10	0,5% or 0,05 Ω *	0,25 %
Terminals strength	130Ncm / 100N	1% or 0,05 Ω *	0,1 %
Endurance	2000cycles Pn 30min/30mn	5 %	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

ENERGY ABSORTION

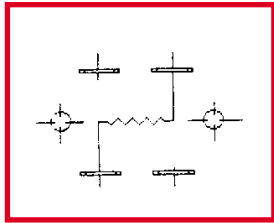
With single resistor, repetitive operation : 0,4 J / $T = 50 \mu s$

Other T values : consult us

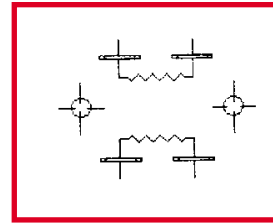
INTERNAL CONFIGURATION

Single or double circuit

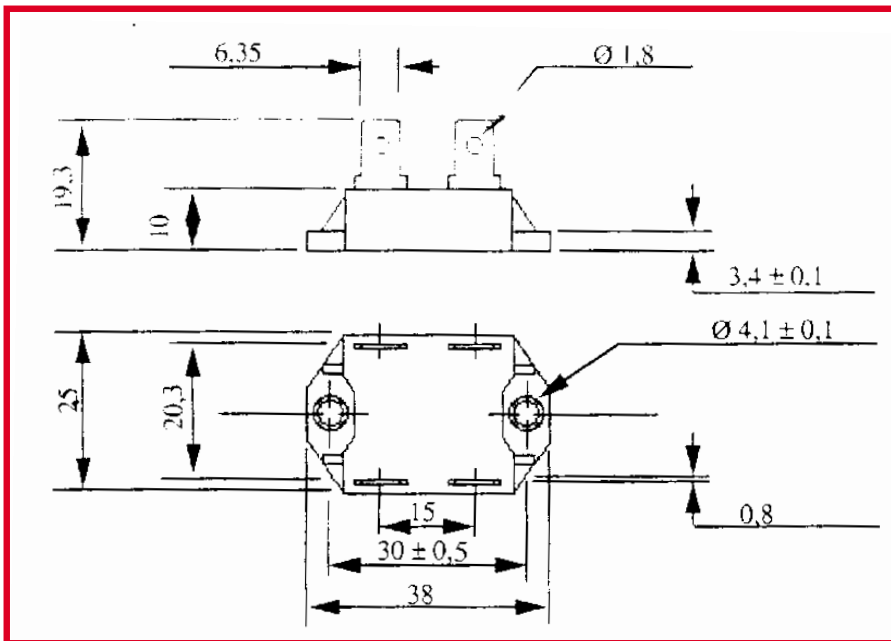
For the double circuit , tolerance on ohm value : $\pm 10\%$



OU



VERSION F DIMENSIONS



VERSION V DIMENSIONS

