

REINFORCED WINDING POWER RESISTORS

- Very high dissipation
- High energy absorption and high overloads
- Typical applications:
Filter preload,
Braking, converter
- Suitable for the most severe conditions

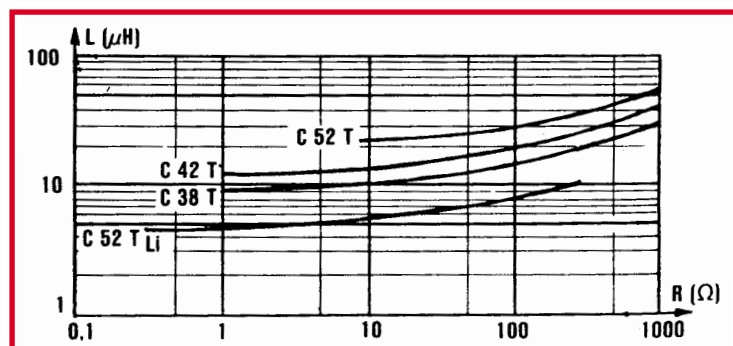
GENERAL CHARACTERISTICS

Core :	grooved ceramic
Winding :	double spiral, Ni-CR alloy
Coating :	special and vitreous
Ohmic values :	E 12
Standard tolerance :	± 5 % (± 10 % for $R_n < 3,3 \Omega$)
Temperature coefficient :	75 ppm / °C (typical)
Temperature range :	- 55 °C to + 450 °C
Traction lug outputs :	C.. TF VERSION
Collars outputs :	C.. TN VERSION
Low inductance :	Li VERSION (with TF Terminals only)

SPECIFIC CHARACTERISTICS

TYPE	C52T	C52T Li	C42T	C38T
Power	900 W	900 W	480 W	270 W
R mini	8,2 Ω	0,33 Ω	1 Ω	1 Ω
R maxi	100 k Ω	270 Ω	56 k Ω	27 k Ω

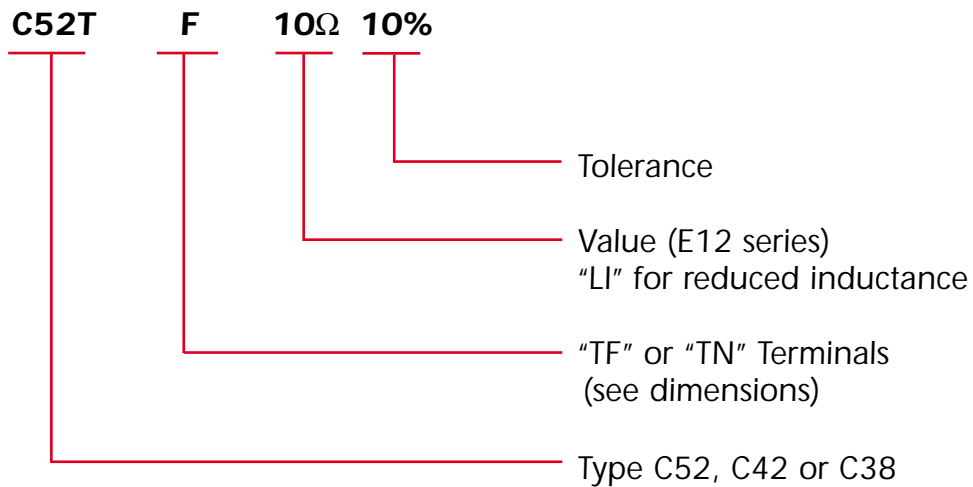
INDUCTANCE VALUE as a function of R_n



OPTIONS (consult us)

- Other values than E12 series
- Intermediate terminals
- Isolated mounting

HOW TO MAKE OUT YOUR ORDER



For information only and subject to amendment

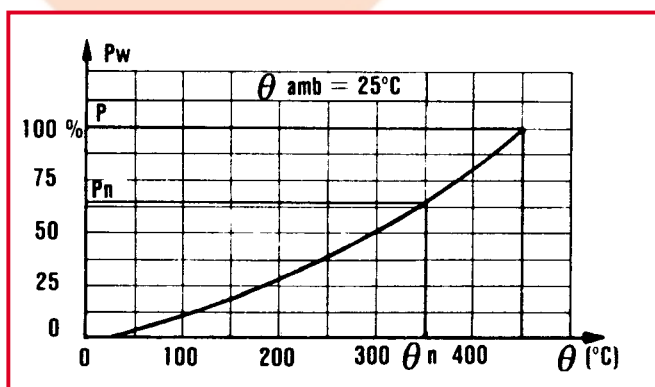


PERFORMANCES

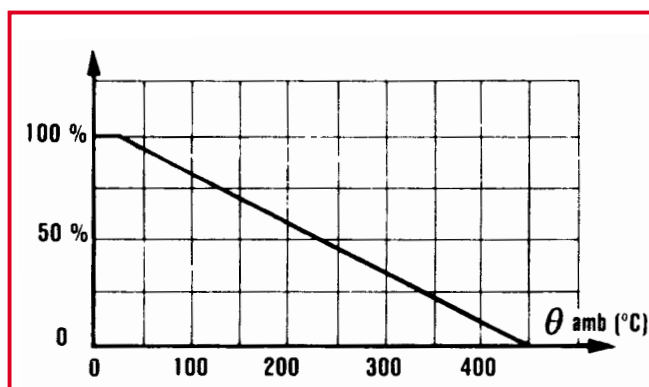
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES MCB Ind.
Overloads	10Pn (temp. nom) 5 sec	±2 %	10 Pn 30s 1%
Climatic	-55°C/5cycles/+200°C	3% or 0,05 Ω*	1 %
Damp heat	56 days 95% HR	2% or 0,05 Ω* 10 ² MΩ	0,1 %
Thermal shocks	Pn - 55°C	0,5% or 0,05 Ω *	0,2 %
Shocks	Severity 50 A	0,5% or 0,05 Ω *	0,5 %
Vibrations	Severity 55/10	1% or 0,05 Ω *	0,5 %
Endurance	500 cycles Pn 90mn/30mn	5 %	1,5 %

*The higher of either value

DISSIPATION

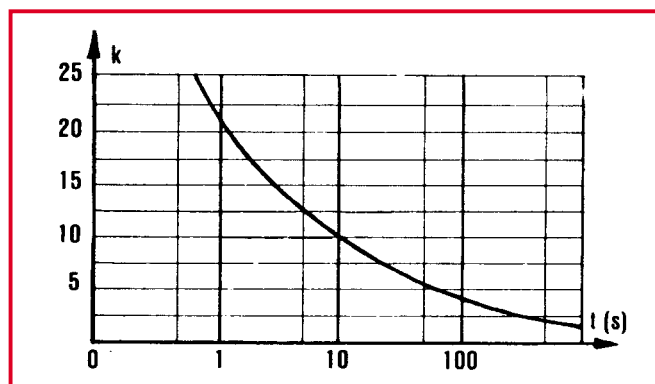


POWER Pw as a function of surface TEMPERATURE
 $P(W) = f(\text{temp. surf})$



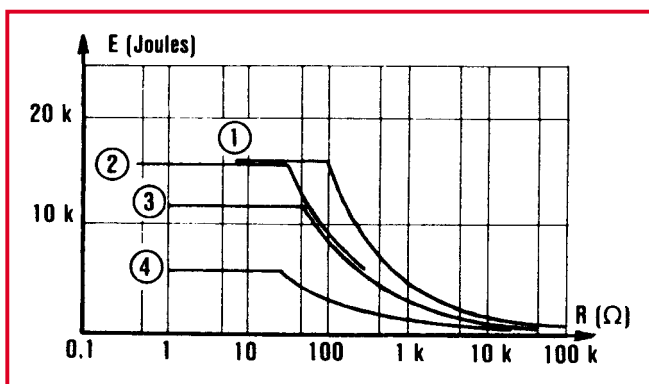
Derating in Power as a function of ambient TEMPERATURE

OVERLOADS



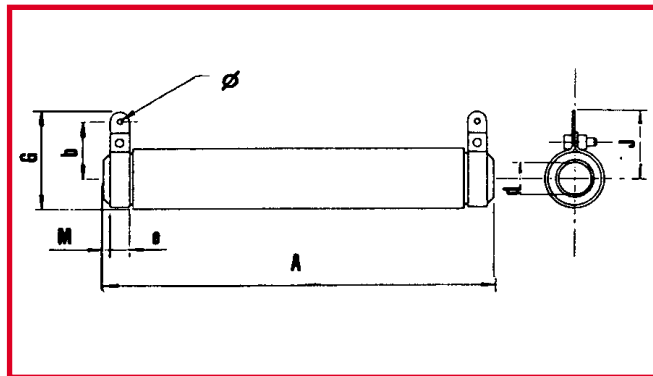
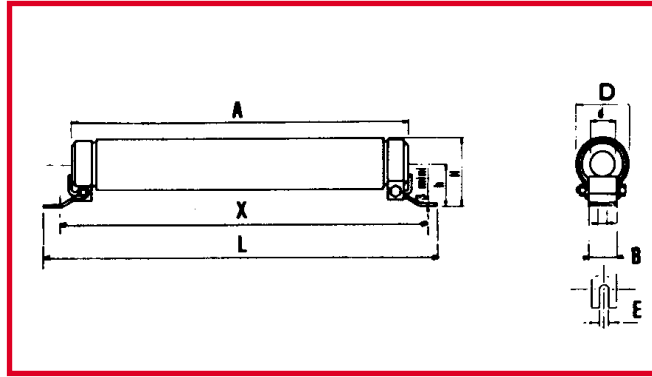
Intermittent OVERLOADS
 Exceptionnall operation
 Initial temperature < 70°C
 $k \times P_n = f(t)$

PERMISSIBLE ENERGY



Repetitive operation
 ENERGY as a function of Rn
 Pulse duration < 100 ms
 1:C52T 2:C52TLi 3:C42T 4:C38T
 $E = f(R)$

DIMENSIONS (in mm and weight in gr)



TYPE	C52T	C42T	C38T
A	362 ± 7	250 ± 4	168 ± 4
B 0+1	30	25	24
b	43 ± 1,5	33 ± 1	28,5 ± 1
D max	54	44	40
d	26 ± 0,5	20 ± 0,5	17 ± 0,35
E	9 ± 0,5	9 ± 0,5	6,5 ± 0,2
e ± 1	18	13	9
G max	88	63	55
H max	72	62	53
h ± 2	45	30	27
J ± 1	52	39	33,5
L max	440	320	230
M	8 + 0-4	5 + 0-2	5 ± 2
ø	6,2 ± 0,2	5,7 ± 0,5	5 ± 0,8
X	400 ± 6	285 ± 2	198 ± 2
Masse	1500	550	350