

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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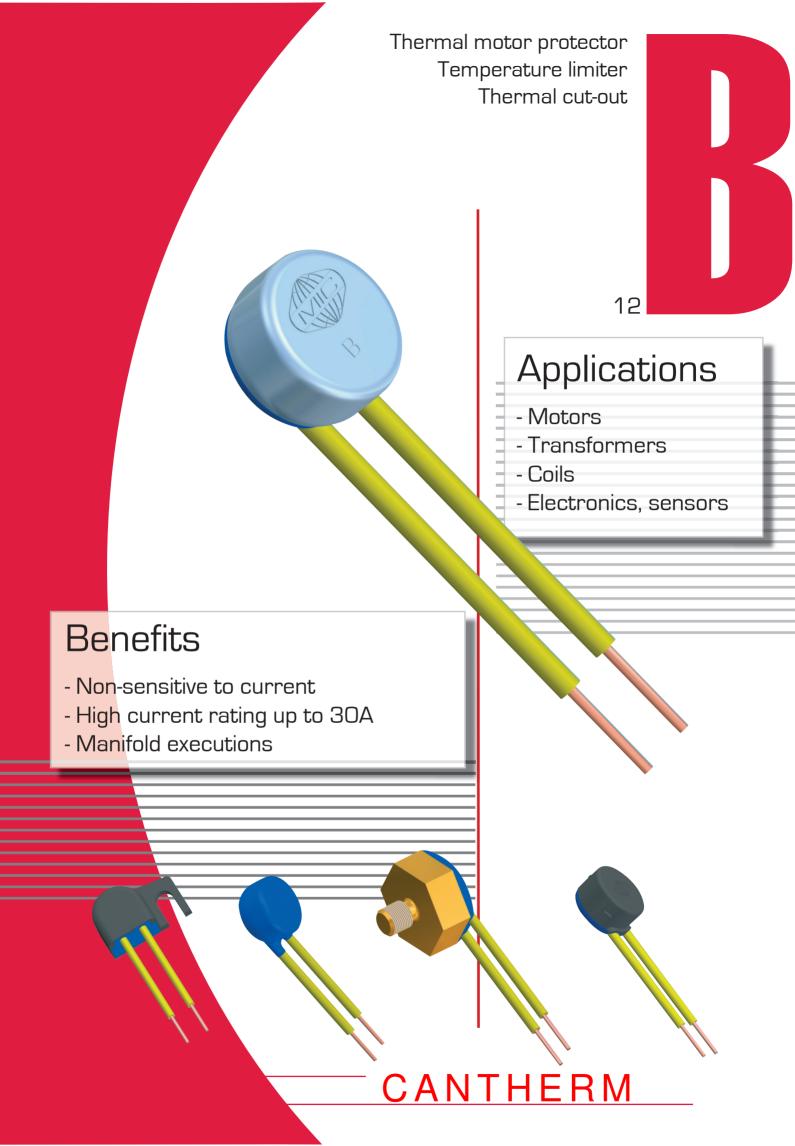
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-Technical data

ratings	control type	B12A / E			B12B / G
version	normally closed			normally open	
rated current at 250 V 50/60 Hz (pov	ver factor 0.95 / 0.6)	6.3 A / 4.0 A	10.0 A / 6.0 A	13.0 A / 2.1 A	5.0 A / 1.6 A
switching cycles		10,000	5,000	1,000	5,000
max. current at 250 V 50/60 Hz (pow	30.0 A				
switching cycles under max. current	100				
temperature rating Ta (steps in 5 K	70 °C 160 °C				
tolerances		Standard: ± 5 K			
feature of automatic action	1.B.M, 2.B, 1.C, 3.C			1.B, 3.C	
contact resistance (incl. wire of 100	< 50 mΩ				
hysteresis	30 K ± 15 K				
dielectric strength (standard insular	2 kV				
shock- / vibration testing (similar to	400 m/s ² sine half wave / 100 m/s ² 5 Hz 2.000 Hz sine				
resistances to impregnation	tight against ordinary resins and lacquers				
degrees of protection provided by e	IP00				
suitable for use in protection categor	I, II				
	VDE / ENEC	EN 60730-1 / -2-2 / -2-3 ¹⁾ /-2-9			
approvals	UL 91	UL 2111 / UL 873 ²⁾			
	CSA G	C22.2 No. 77 / C22.2 No. 24 ²⁾			

¹⁾ different power rating 2) on demand

Standard wire (length 100 ± 10 mm, stripped 6 ± 1 mm)

lead	code	temperature max.	operating voltage max.	diameter insulation	cross section diameter	UL style
stranded white	L310	150 °C	300 V	1.80 mm	AWG20 / 0.48 mm ²	- 3398
	L320	150 C		2.15 mm	AWG18 / 0.96 mm ²	
	L340	000.00	600 V	1.26 mm	AWG20 / 0.62 mm ²	3557
	L350	200 °C		1.50 mm	AWG18 / 0.96 mm ²	
solid yellow	L410	150 °C	300 V	1.65 mm	AWG20 / 0.81 mm	3398
	L440	200 °C	300 V	1.71 mm	AWG20 / 0.81 mm	1332

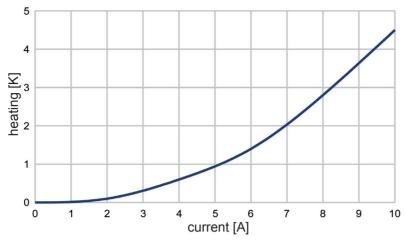
Standard insulation

control type	nc	no	code	illustration	drawing dimensions (mm)	technical specification	approvals
B12	A	В	U253		91 89 ca. 21 100 ±10	shrink cap potted Attention: Ta max. 155 °C	VDE, UL
B12	A	В	U186		9 8 100 ±10	cap of PPS potted	VDE, UL

Specific variations

control type	nc	no	code	illustration	drawing dimensions (mm)	technical specification	approvals
B12	А	В			00 ±10 ±10	not insulated potted	VDE, UL, CSA
B12	A	В	U112		ca. Ø 10	coated	VDE, UL
B12	А	В	U294		100 ±10 00 ±10	housing of PPS potted	VDE, UL
B12	A	В	A800		4,2 30 ±2 0	not insulated potted	VDE, UL
B12	E	G	G402	8	M 4 100 ±10	aluminium housing thread M4x6 potted Attention: Ta max. 150 °C	VDE, UL
B12	E	G	G714		M 4 W 12 100 ±10	brass housing thread M4x5 potted Attention: Ta max. 150 °C	VDE, UL

Heating by current



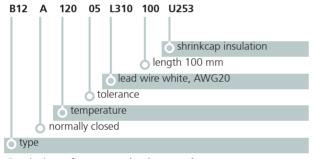
The diagram is measured with a thermal control without any insulation in an oil bath.

Attention:

The heating depends on the thermal conduction of the control to the equipment or part which should be protected.

Ordering and marking example

Ordering example



Deviations from standard controls on request.

Marking

B12A type (B12 nc)

12005 response temperature (120°C), tolerance (± 5K)

date of manufacture (Feb.2006), country (D=Germany)

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