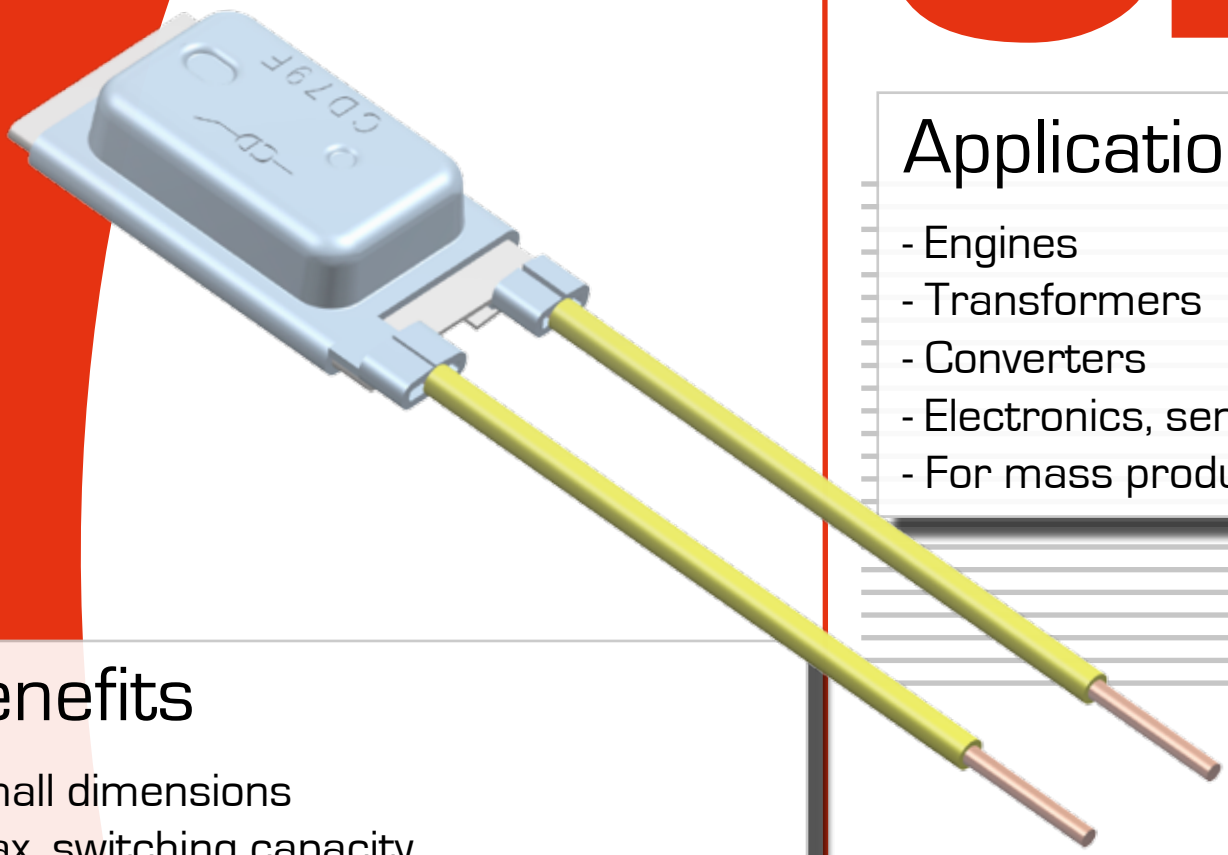
CD

Thermal motor protector
Temperature control
Temperature limiter
Thermal protection for ballast

79F



Applications

- Engines
- Transformers
- Converters
- Electronics, sensors
- For mass production

Benefits

- Small dimensions
- Max. switching capacity
- Temperature and current sensitive
- Low contact resistance

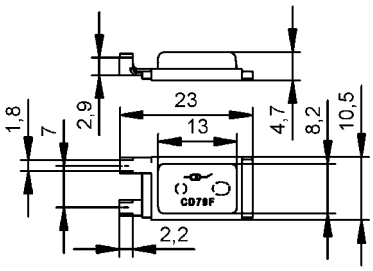
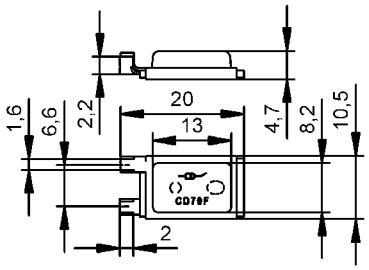
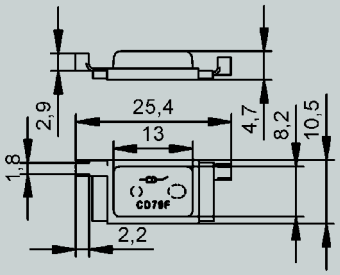
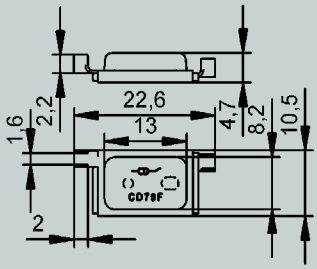
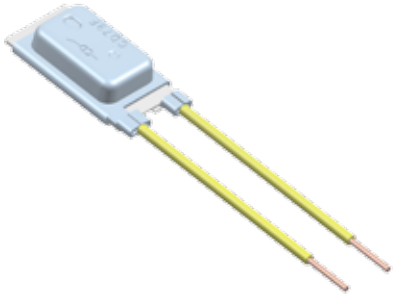
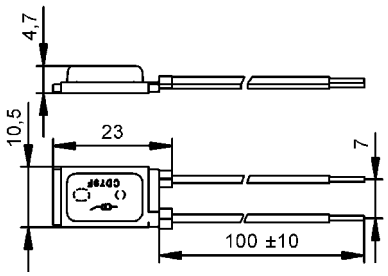
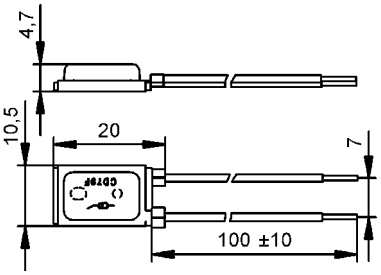
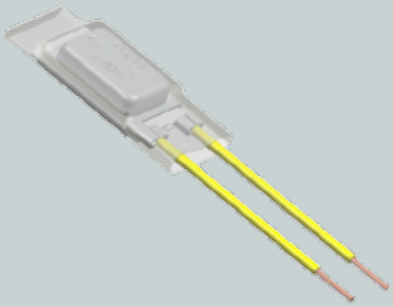
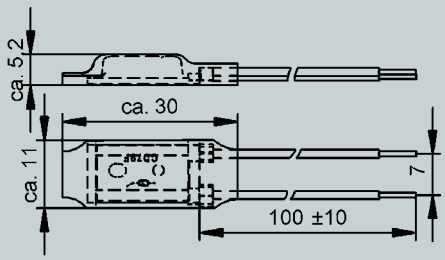
Technical data

type ratings / control type		CD 79 F-series		
		rated current	switching cycles	temperature rating
VDE	DIN EN 60730-2-9	12 V DC 16A	10,000	60°C to 180°C
		120 V AC 16A	10,000	
		240 V AC 9A	10,000	
		250 V AC 2A	100,000	
		250 V AC 5A	35,000	
		250 V AC 3A, cos phi 0,4	10,000	
		250 V AC 10 A	10,000	
	DIN EN 60730-2-2	12 V DC	-	60°C to 180°C
		120 V AC		
		250 V AC		
	DIN EN 60730-2-3	250 V AC 3A	-	60°C to 180°C
UL / cUL	UL 2111 UL 873	16 V DC 20A	10,000	60°C to 180°C
		120 V AC 22A, 60 HZ	10,000	
		120 V AC 5A, 60 HZ	100,000	
version		—o—o— normally closed		
tolerances		±5%, max. 7K		
contact resistance		≤ 50 mΩ		
housing material		nickel steel		
hysteresis		between 5K and 50K under response temperature		
housing insulation		optional		
degree of protection of enclosure (EN 60529)		IP 00		
suitable for use in protection category		I, II		
guidelines and norms		RoHS-conformity, REACH-conformity		

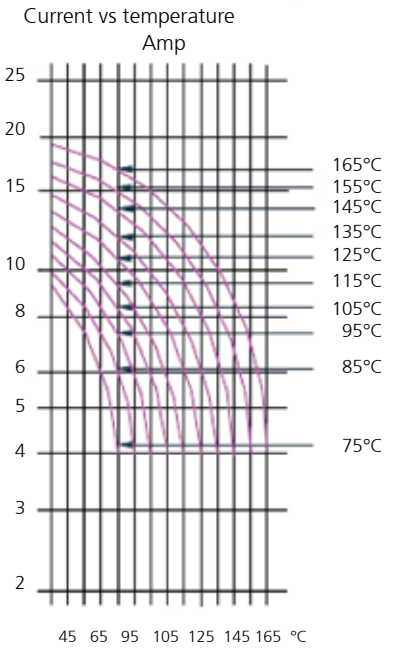
Standard leads

lead	code	temperature max.	operating voltage max.	approx. diameter insulation	approx. cross section diameter	UL style
leads white	L310	150°C	300 V	1,82 mm	AWG 20 / 0,48 mm²	3398
	L370	200°C	600 V	1,60 mm	AWG 20 / 0,48 mm²	10086
leads white	L320	150°C	300 V	2,10 mm	AWG 18 / 0,81 mm²	3398
	L380	200°C	600 V	1,80 mm	AWG 18 / 0,96 mm²	10086

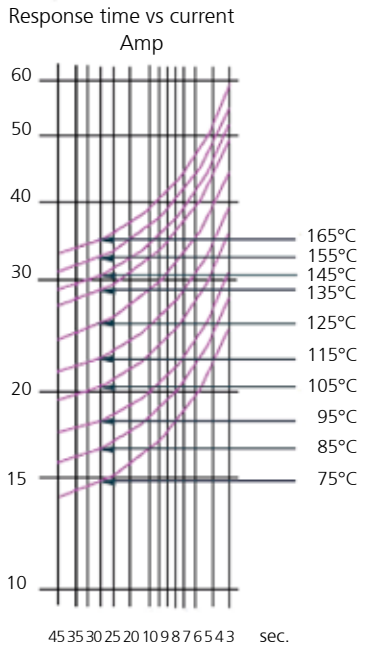
Standard length 100 mm ± 10 mm, stripped insulation 6 ± 1 mm.
Leads or solid wires are available in various lengths, cross-sections and qualities.
The temperature rating of the connecting leads covers the nominal response temperature of the cutout as a minimum.

switch type	illustration	standard VDE / UL dimensions (mm)	standard UL / cUL dimensions (mm)
CD79F A Crimp connection A = connection both one end			
CD 79F B crimp connection B = connection opposite ends			
CD79F A Crimp connection with leads A = connection both one end			
CD79F A Crimp connection with leads and insulation Available with various insulations (for example Nomex-Mylar) A = connection both one end			

Temperature-current-response time curve



Bimetal resistance 30 Ω
This graph shows mean values



Mean initial response time T 25°C

Ordering and marking example

Ordering example standard execution

CD 79 F XXX A B

- **B** – For special identification, supplment letter can be omitted or letter up to Z or figure 1 to 9
- **A** – Code of connections

Code	Connections	Insulation	Leads
A	on same side	no	no
B	on opposite side	no	no
G	on same side	yes	yes
H	on opposite side	yes	yes

- **XXX** – Temperature value, consisting of 3 figures from 000-160°C
- **F** – Code of the specific resistance of bimetal
- **79** – Basic geometrical measures
- **CD** – Type

Marking example

CD79F	Switch type
100°C ±10 K	Temperature (100°C), tolerance (±10K)
A	Execution