

BIMETAL
CUTOUTS

R53
R54
R55

R



CANTHERM


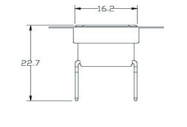

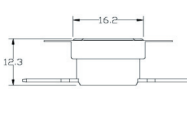


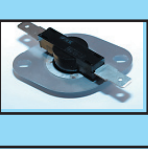
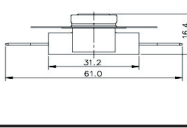

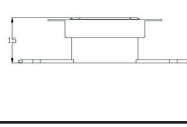
Supplying high-quality bimetal and thermal sensor products.




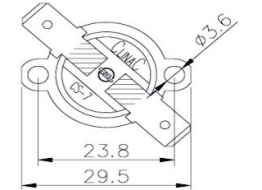

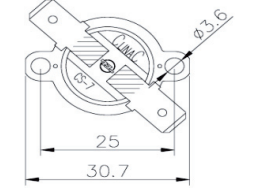

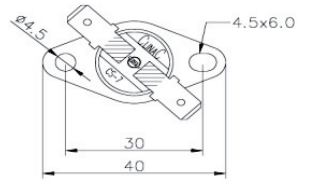

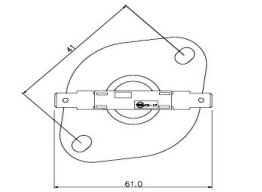

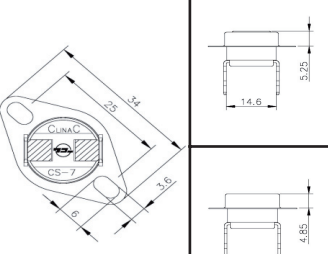

Technical data

| ratings \ control type | | R53 | | | R54 | | R55 |
|--|---|--|---------|------------|-------------|------------|-------------|
| | | CS-7S | CS-17 | B-2 | CH-15 | CH-152-35 | CR71 |
| function | | automatic | | SOD | automatic | SOD | manual |
| version | | normally closed / normally open | | nc | nc / no | nc | nc |
| VDE | rated current at 250 Vac (cos φ 0,95) | 10A | 25A | 25A/15A | 15 (10) | 10 | 10(8) |
| | switching cycles | 100,000 | 100,000 | 1 | 100,000 | 1 | – |
| | temperature range TA (steps in 5°C) | -20...200°C | | 60...150°C | -20...200°C | 0...220°C | -20...200°C |
| UL | rated current at 125/250 | * 15A/10A | 25A/25A | 25A | 15/10 | 17A | 15(10) |
| | switching cycles | 100,000 | 100,000 | 1 | 100,000 | 1 | – |
| | temperature range TA (steps in 5°C) | -20...200°C | 150°C | 0...200°C | 0...250°C | 0...260°C | 50...200°C |
| tolerance | | > +/- 3°C (+/- 5°C Typical) | | | | | |
| contact resistance / Insulation res. / dielectric res. | | < 50 mΩ / >100 mΩ at 500V / 1500V for 1 minute | | | | | |
| hysteresis / reset temp. (Rt) | | 20K ±5K | | (Rt) -35°C | 20K ±5K | (Rt) -35°C | – |
| deg. of protection provided by enclosures (EN 60529) | | IP00 | | | | | |
| approvals | VDE / ENEC | Cert# 40010923 EN 60730-1 / -2-9 / 1-A15 / 1-A16 | | | | | |
| | UL / CUL | UL 873 File E50367 | | | | | |
| | CSA | C22.2 No.24 File LR85323 | | | | | |
| <p>* Additional ratings for CS-7 only:</p> <p>12VDC 15A / 20,000 switching cycles (Not UL, CSA, VDE) 9.5VDC 0.38A / 100,000 switching cycles (UL Approved, Pilot Duty Only)</p> <p>24VDC 10A / 20,000 switching cycles (Not UL, CSA, VDE) 12VDC 0.075A / 100,000 switching cycles (UL Approved, Pilot Duty Only)</p> <p>For use as a guideline only.</p> | | | | | | | |

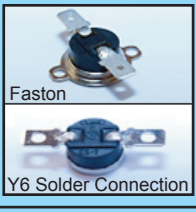



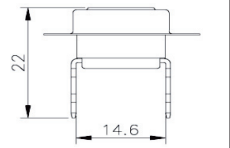
Standard types

| type | nc | no | code | photo | drawing dimensions (mm) | technical description | approvals |
|--------------------------------|----|----|--------------------------|---|--|--|--------------|
| R53 CS-7S, CS-17, B2 | 2 | 1 | Term = Z1 Ring = D |  |  | Terminals 6.3 x 0.8, 4.8 x 0.5mm Sn or Ni plate, Housing: Thermoset, Cap: SS or Al, Loose Bracket, Terminals Vertical (Z type) | UL, CSA, VDE |
| | | | Term = Y1 Ring = D |  |  | Terminals 6.3 x 0.8, 4.8 x 0.5mm Sn or Ni plate, Housing: Thermoset, Cap: SS or Al, Loose Bracket, Terminals Horizontal (Y type) | |
| R55 CR-71 | 2 | – | Ring = D |  |  | Terminals 6.3 x 0.8, 4.8 x 0.5mm Sn or Ni plate, Housing: Thermoset, Cap: SS or Al, Loose Bracket, Terminals Horizontal (Y type) | UL, CUL, VDE |
| R53 CS-17 | 2 | 1 | Ring = L |  |  | Terminals 6.3 x 0.8, 4.8 x 0.5 mm Sn or Ni plate, Housing: Thermoset, Cap: SS, Welded Bracket, Terminals Horizontal (Y type) | |
| R54 CH-15, CH-152-35 | 2 | 1 | Ring = None Term = Y7 |  |  | Terminals 6.3 x 0.8, Steel Ni plate, Housing: Ceramic Thermoset, Cap: Aluminum, Loose Bracket, Terminals Horizontal (Y type) | |

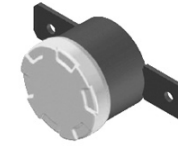
Mounting rings

| type | code | photo | drawing dimensions (mm) | technical description | approvals |
|-------------------------|--------------------------------|---|---|---|--------------|
| CS-7S, CS-17, B2, CR-71 | Standard D |  |  | 23.8mm mounting ring, loose or fixed at 45°, 90°, or 135°. | UL, CSA, VDE |
| | M |  |  | 25mm mounting ring, loose or fixed at 45°, 90°, or 135°. | |
| | E |  |  | 30mm mounting ring, loose. | |
| CS-7S, B2, CR-71, CS-17 | L |  |  | 41mm mounting bracket fixed at 45°, 90° or 135°. | UL, CUL |
| CS-7S, B2, CR-71 | Thru-Hole Mnt. = F |  |  | Flange Cap mounting, Stainless Steel fixed at 45°, 90° or 135° | UL, CSA, VDE |
| | Exposed Bimetal Thru Hole = FX |  | | Flange Cap mounting, w/exposed bimetal, Stainless Steel fixed at 45°, 90° or 135° | |

Terminals

| code | used in type | photo | drawing dimensions (mm) | technical description | approvals |
|---|--|--|---|--|--------------|
| Y1 [STD] Brass Faston Tin Plate .250 Y2 Brass Faston Tin Plate .187 Y3 Brass Faston Nickel Plate .250 Y4 Brass Faston Nickel Plate .187 Y5 Steel Faston Nickel Plate .250 Y6 Steel Nickel Solder Connection Y7 Brass Nickel Solder Connection | CS-7,CR-71, B2 CS-7,CR-71, B2 CS-7,CR-71, B2 CS-7,CR-71, B2 CS-7,CR-71, B2, CH-15 CS-7,CR-71, B2, CH-15 CS-7,CR-71, B2 |  Faston  Y6 Solder Connection |  | Horizontal Fastons 6.3mm x 0.8mm 4.8mm x 0.8mm | UL, CSA, VDE |
| Z1 [STD] Brass Faston Tin Plate .250 Z2 Brass Faston Tin Plate .187 Z3 Brass Faston Nickel Plate .250 Z4 Brass Faston Nickel Plate .187 Z5 Steel Faston Nickel Plate .250 | CS-7,CR-71, B2 CS-7,CR-71, B2 CS-7,CR-71, B2 CS-7,CR-71, B2 CH-15 |  |  | Vertical Fastons 6.3mm x 0.8mm 4.8mm x 0.8mm | |

caps



Cap in standard execution, material aluminium (code D)



Cap for fixed mounting stainless steel (code F)



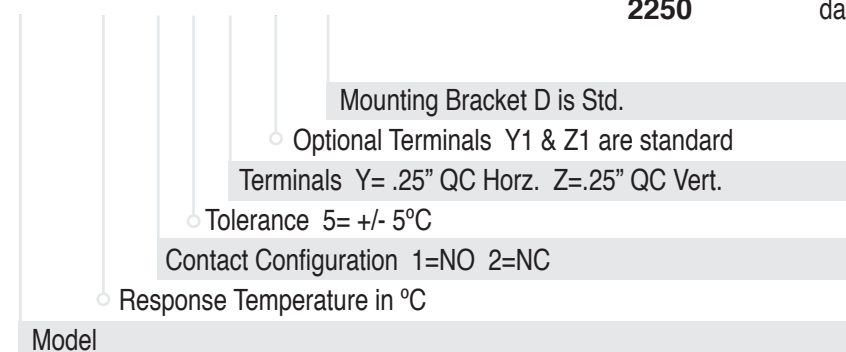
Exposed bimetal cap (code FX)

- Deviations from standard controls (caps, terminals, fixings) on request.
- Especially for electronic applications with voltage 6...120 Vac / 6...30 Vdc and current 10...100 mA, gold crossbar contacts are available.
- Single operation devices (SOD) are available up to 150°C or with reset temperature -35°C (type B-2).

Ordering and marking example

Ordering example

CS7 100 2 5 Y _ _



Marking example

CS-7S R100U norm. closed response temperature
CS710025Y manufacture code
2250 date of manufacture



CANTHERM

Supplying high-quality bimetal and thermal sensor products.

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