

Safety thermal cut-out

89.00

Single-pole



Application

For heat generators with temperatures up to 350°C [662°F]

Features

Electro-mechanical safety thermal cut-out (STB) with capillary sensor approved to DIN EN 14597 and EN60730-1/2-9

- If cut-out temperature is exceeded, circuit switches to OFF or changeover and stays in this position
- Fail safe design: Expansion liquid loss results in opening of contact 1-2
- Manuell resetting after sensing element has cooled by at least 10K
- Single-pole micro switch with on/off or change-over switch
- Time factor of sensing element better than DIN EN 14597
- Temperature compensated switching head
- Operation type 2.B.H.K.L.P (EN60730)
- RoHS-conform
- DIN CERTCO Registernumber: TR1107

Technical data

Switching system:

| | | |
|-----------------------------------|--|-----------|
| Endurance class | 1.000 operations | |
| Nominal voltage/current | 1-2 | 1-4 |
| 250 V AC | 16 (3,5) A | 4 (0.6) A |
| Protection against electric shock | for incorporation in class I equipment I | |
| Protection standard of housing | IP00 (EN 60 529) | |
| Overvoltage category | II | |

Range of application:

| | |
|---|-------------------------------------|
| Cut-out temperature | |
| • fixed adjustment [140..662°F] | 60 ... 350°C |
| • adjustable [230..185°F], [248..203°F, 266..212°F] | 110...85°C, 120...95°C, 130...100°C |
| Max. sensing element temp. | t _{aus} + 25°C [77°F] |
| Ambiant temperature at switching head | max. 85 °C (T85) [185°F] |
| Storage and transport temperature | -25...+60 °C [-13.. +140°F] |

Calibration:

| | |
|---|--|
| Calibrated for ambient temperature at switching head and capillary tube | 23°C or 50°C [73,4°F or 122°F] (Tu23/Tu50 according to DIN EN 14597) |
| Calibration tolerance | - 4 K, max 6% |
| Drift | 2 K |
| Time factor in water / in oil | < 45 s / < 60 s |

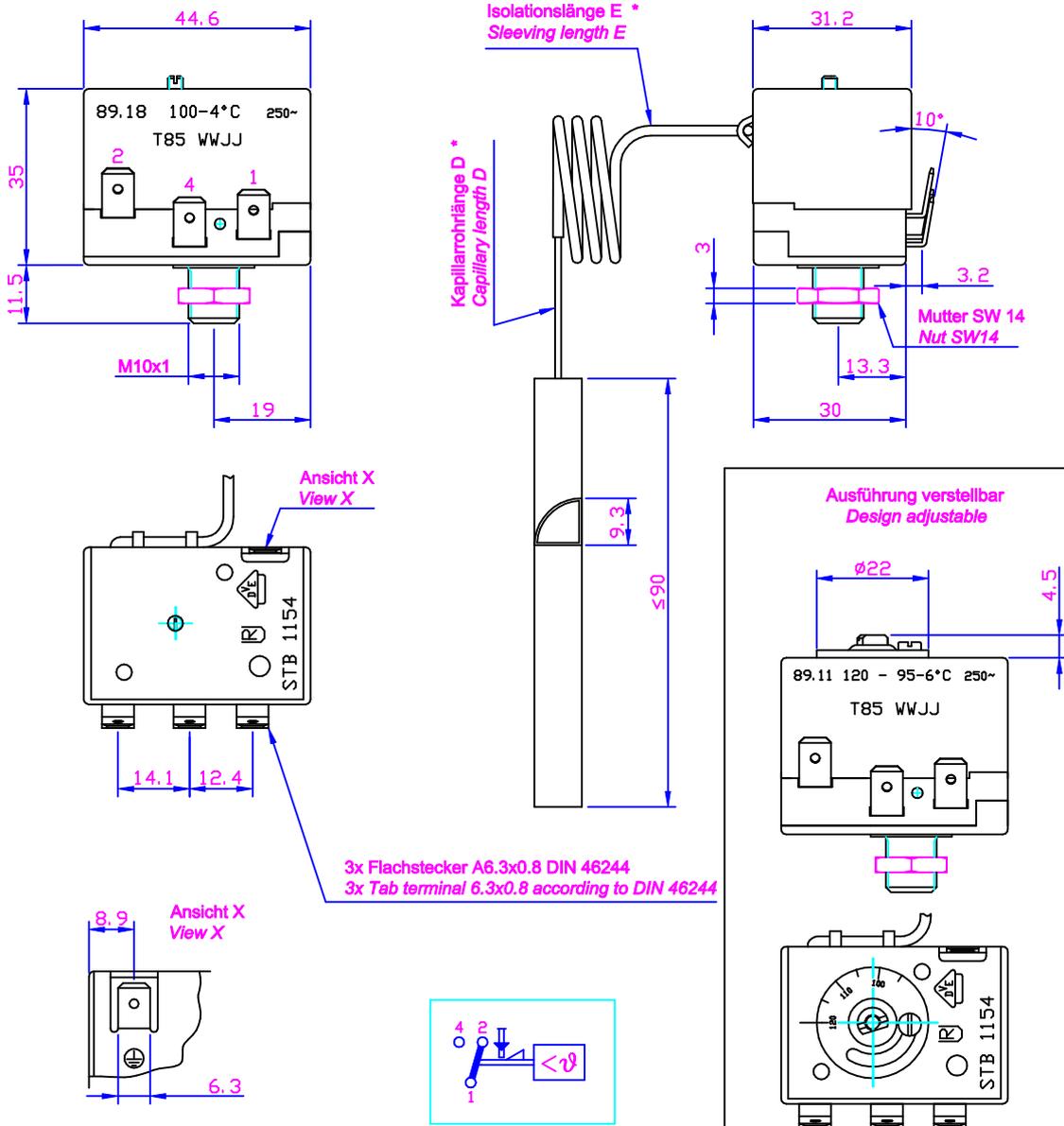
Design:

| | |
|-----------------------------------|---|
| Capillary und sensing element | copper / stainless steel |
| Capillary length | 500 ... 3500 mm |
| Phial forms | |
| • round, diameter | 3, 4, 5, 6, 6.5, 7, 8, 9.5, 10, 11, 12 mm |
| • half-, third-, quarter circle | |
| Diaphragm | stain less steel |
| Connection and earthing terminals | Tab terminal A6.3x0.8 |

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Sicherheits - Temperaturbegrenzer Typ 89.00

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| Ausschalttemperatur <i>Cut-out temperature</i> | Ausführung <i>Design</i> | * Ausschalttemperatur, Kapillarrohrlänge, Isolationslänge sowie Fühlerformen können nach Kundenwunsch verändert werden. * <i>Cut-out temperature, capillary length, sleeving length and phial forms are adjustable to customers specific requirements.</i> |
|---|---|---|
| 130 °C ... 100 °C 120 °C ... 95 °C 110 °C ... 85 °C | verstellbar <i>adjustable</i> | |
| 60° C - 350 °C * | fest eingestellt <i>fixed adjustment</i> | |