



CT48A



- Input by J-K thermo-couple or by thermo-resistance Pt 100 (2-wire)
- 2 regulation modes: ON/OFF or proportional derivative selected by wiring
- Relay output

	Type	Description	Temperatures	Scale divisions
89420207	CT48A	Resistance temperature detector PT 100	- 50 + 30	2°C
89420217	CT48A	Resistance temperature detector PT 100	0 + 40	1°C
89420227	CT48A	Resistance temperature detector PT 100	0 + 120	2°C
89420237	CT48A	Resistance temperature detector PT 100	0 + 200	5°C
89420257	CT48A	Resistance temperature detector PT 100	0 + 400	10°C
89420047	CT48A	Thermocouple J	0 + 250	10°C
89420067	CT48A	Thermocouple J	0 + 450	10°C
89420097	CT48A	Thermocouple J	0 + 600	10°C
89420077	CT48A	Thermocouple K	0 + 800	20°C
89420087	CT48A	Thermocouple K	0 + 1200	20°C

Supply voltage Un

Operating range	0,85 to 1,15 x Un
Maximum power consumption	2 VA

Thermocouple according to IEC 584

Automatic cold-junction compensation	For J - K: semi-conductor
Max. line resistance	150 Ω
Resist. temp. detector Pt 100 according to IEC 751	2-wire
Derating following line resistance	1 °C / 0,4 Ω
Derating with regard to the setpoint Per 10 °C variation in ambient temperature	J - K: ≤ 1 °C Pt 100: ≤ 0,1 °C
Derating with regard to the setpoint Per 10 Ω of line resistance variation	J - K: ≤ 1 °C
Derating with regard to the setpoint Per 10% variation in supply voltage	≤ 0,1%

ON/OFF output actionFixed hysteresis

Derived proportional output action Fixed proportional band (% of full scale)	3%
Derived proportiona output action Period proportional band	22 s

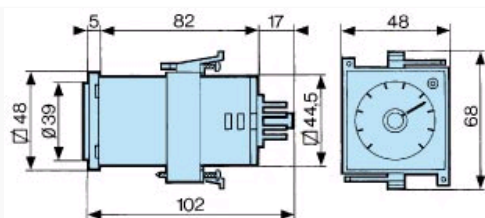
Changeover relay

Mechanical life (operations)	3x10 ⁵
Behaviour in the event of sensor failure	Relay in rest position
Scale evolution	80 mm
Display accuracy J-K (full scale)	± 2%
Display accuracy Pt 100 (of the full scale)	± 1,5%
Operating temperature range (°C)	0 °→+55
Storage temperature range (°C)	-20 →+70
Insulation according to standard VDE 0110	Group C for 250
Protection class according to DIN 40050 Casing	IP20
Protection class according to DIN 40050 Front panel	IP41
Mounting	Clip
Connection	Solder terminals socket, 8 poles
Weight (g)	350

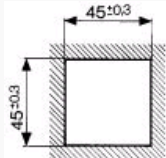
Accessories

	Code
Solder tag connector 8-pin	25622301
	25622303
Protective cover IP 54	79237709

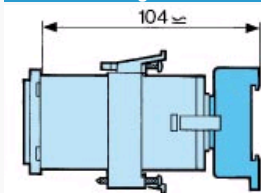
Dimension Diagram : Dimensions - mounting



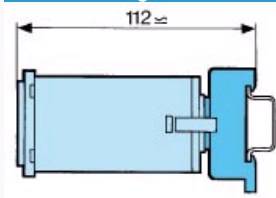
Dimension Diagram : Panel cut-out



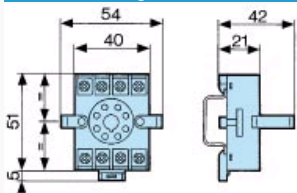
Dimension Diagram : Screw terminal or connector socket - 8-pin base: ref. 25 622 303for panel mounting



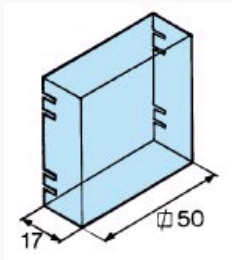
Dimension Diagram : Screw terminal or connector socket - 8-pin base: ref. 25 622 303for mounting on DIN rail 35 mm EN 50022



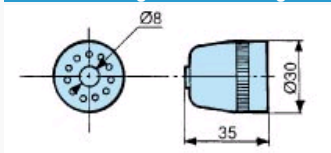
Dimension Diagram : Connector socket



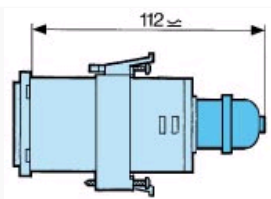
Dimension Diagram : Protective cover - IP 5479 237 709



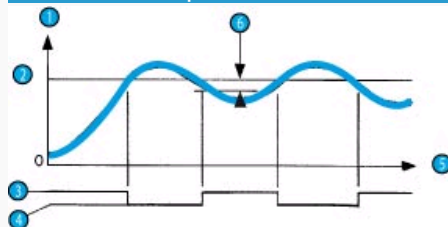
Dimension Diagram : Solder tag connector8-pin: ref. 25 622 301



Dimension Diagram :

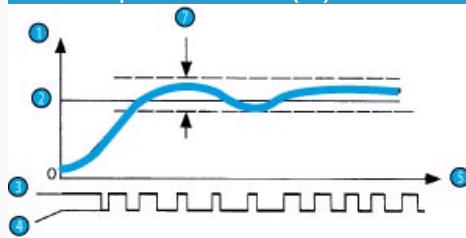


Curves : ON/OFF output action - CT48A



N°	Legend
1	Temperature
2	Setpoint
3	Output ON
4	Output OFF
5	Time
6	Hysteresis (0,4%)

Curves : Proportional derivative (PD) action - CT48A



N°	Legend
1	Temperature
2	Setpoint
3	Output ON
4	Output OFF
5	Time
7	Proportional band (PB)

