

1/2 inch, Automatic Reset type

THERMOSTAT
US-622

Application/ Oven, Heating unit, LBP etc.

Operating temp. 185°C max.



Polyester resin case

US-622AXRLQE



Model code

US-622□□□□□

The material of the bracket stainless steel (other than KO and SO)

Cover •
mounting
bracket
type

- QO : Aluminum cover, no bracket
- QE : Aluminum, movable surface bracket (pitch 23.8mm)
- QE-FB : Aluminum, fixed surface bracket (pitch 23.8mm)
- QL : Aluminum, movable surface bracket (pitch 24.5mm)
- QL-FB : Aluminum, fixed surface bracket (pitch 24.5mm)
- KO : Aluminum, air stream bracket (depth 5.0mm, 24.5mm)
- GO : Aluminum, air stream bracket (depth 5.4mm, 24.5mm)
- MO : Stainless cover, no bracket (with ϕ 12 hole type)
- IO : Stainless, air stream bracket (depth 4.6mm, 24.5mm)
- JO : Stainless, air stream bracket (depth 5.2mm, 24.5mm)
- QD : Aluminum, movable surface bracket (pitch 30.0mm)
- QM : Aluminum, movable surface bracket (pitch 23.8mm)
(for mounting an M3 tapping screw)
- FO : Stainless cover, no bracket
- DO : Aluminum cover, no bracket (with ϕ 12 hole type)
- NO : Aluminum cover, no bracket (with frange type)
- CO : Stainless, air stream bracket (with hole, depth 5.2, 24.5)
- SO : Brass cover, stud mounting type
[M3 × 0.5, M4 × 0.7, M5 × 0.8, 32UNC, 8-32UNC, 10-32UNF]

Terminal
type

- L : Terminal for positive lock connector 250 series
(size : 6.35 × t 0.8 material: brass, Ni-plated)
- G : Terminal for positive lock connector 250 series
(size : 6.35 × t 0.8 material: steel, Ni-plated)
- M : Terminal for positive lock connector 187 series
(size : 4.75 × t 0.5 material: brass, Ni-plated)
- H : Terminal for positive lock connector 187 series
(size : 4.75 × t 0.5 material: steel, Ni-plated)
※ H : Combination of horizontal terminal (R)
- V : Connector IEC60730-1 quasi-terminal
(size : 4.8 × t 0.8 material: brass, Ni-plated)
- D : DIN46244 quasi-terminal
(size : 4.8 × t 0.8 material: brass, Ni-plated)
- I : For fixing with screw (steel t 0.8, Ni-plated)
※ I : Combination of horizontal terminal (R)
- S : For soldering (Brass t 0.5, Sn-plated)

Terminal
angle

- R : Horizontal terminal
- T : Vertical terminal

Contact
type

- X : Open on temperature rise
- Y : Close on temperature rise

Application
type

- A : Ag • Ag alloy contact / standard case (Type A)
- P : Ag • Ag alloy contact / 4 post case (Type P)
- K : Au cross bar contact / standard case (Type K)

※ For Cover and bracket model, please refer to page 16.



US-622AXRSGO



US-622AXTLQE

Specification

Electrical rating
Switching durability

Type A•P : 125 VAC 15A max. , 250 VAC 10A max.
(resistive load) ... 100,000 times or more
250 VAC 16A max. (resistive load) 30,000 times
250 VAC 6 (6)A Cos ϕ 0.6, inductive load
10,000 times
Type K : 30 VDC 1 A max. (5 VDC 1mA min.)

Operating temp. range

0~50°C 51~100°C 101~150°C 151~185°C

Temperature tolerance

 $\pm 4K / \pm 5K$ $\pm 4K / \pm 6K$ $\pm 5K / \pm 7K$ $\pm 6K / \pm 8K$

Differential

12K 15K 20K 25K

Circuit resistance

Type A•P : 50 m Ω or less , Type K : 10 m Ω or less

Insulation resistance

100 M Ω or more [with a 500 VDC megger]

Dielectric strength

Type A•P : 1500 VAC / 1 min. , Type K : 1200 VAC / 1 min

The max. override temp.

235°C

Cold resistance

-20°C

Switching durability

100,000 times or more [at rated load]

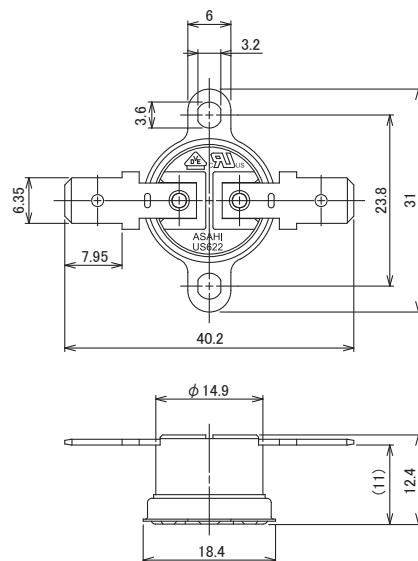
* The differential varies slightly with the operating temperature.

* Please contact the Overseas Sec for the details since the types and specifications of the approved models are slightly different from those shown above.

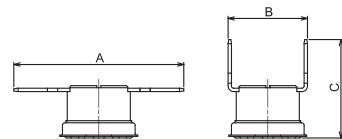
* US-622 is adapted to be a S.O.D. with a quick response.

Dimensional drawings

US-622SXRLQE



Terminal type and angle



[Unit : mm]

Terminal type	A	B	C
L, G	(40.2)	(18.8)	(23.3)
M, H	(36.0)	(18.2)	(20.9)
V	(33.0)	(19.0)	(19.5)
D	(34.5)	(19.0)	(20.5)
I	(34.5)	—	—
S	(22.5)	(16.0)	(16.0)

※ Above dimension is applied for US-622