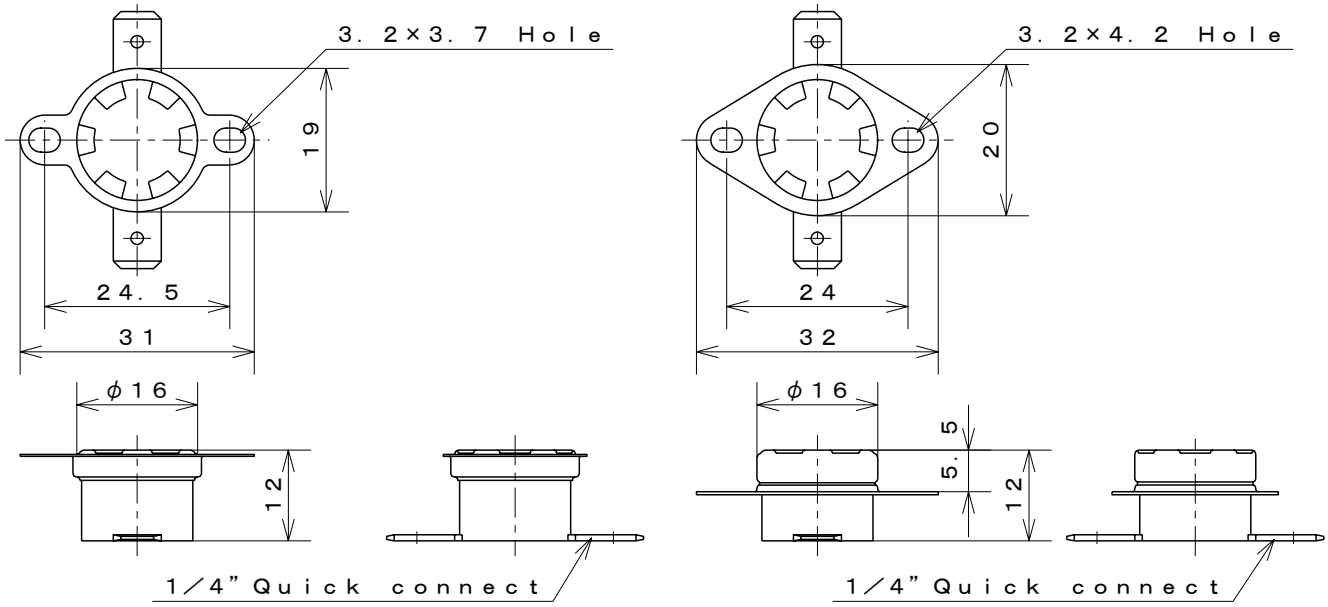
1/2" Disc Type Thermostat
Automatic Reset

Type 03EN

UL·CSA·VDE·BEAB Recognized

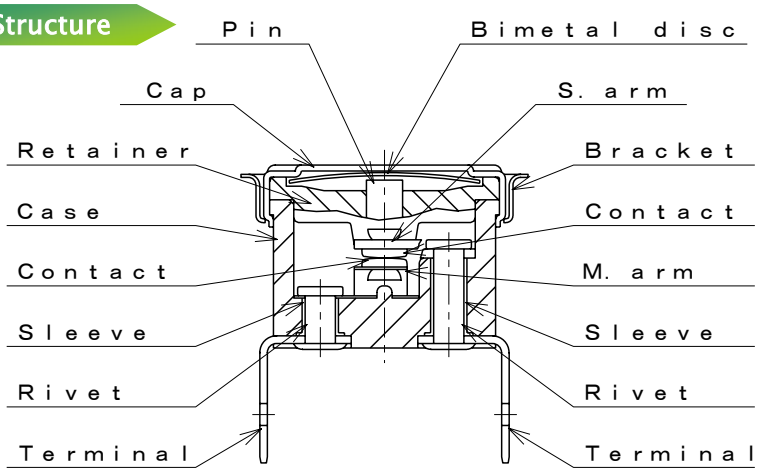
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	UL : AC120V/15A AC240V/10A CSA : AC125V/15A AC250V/8A VDE·BEAB : AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

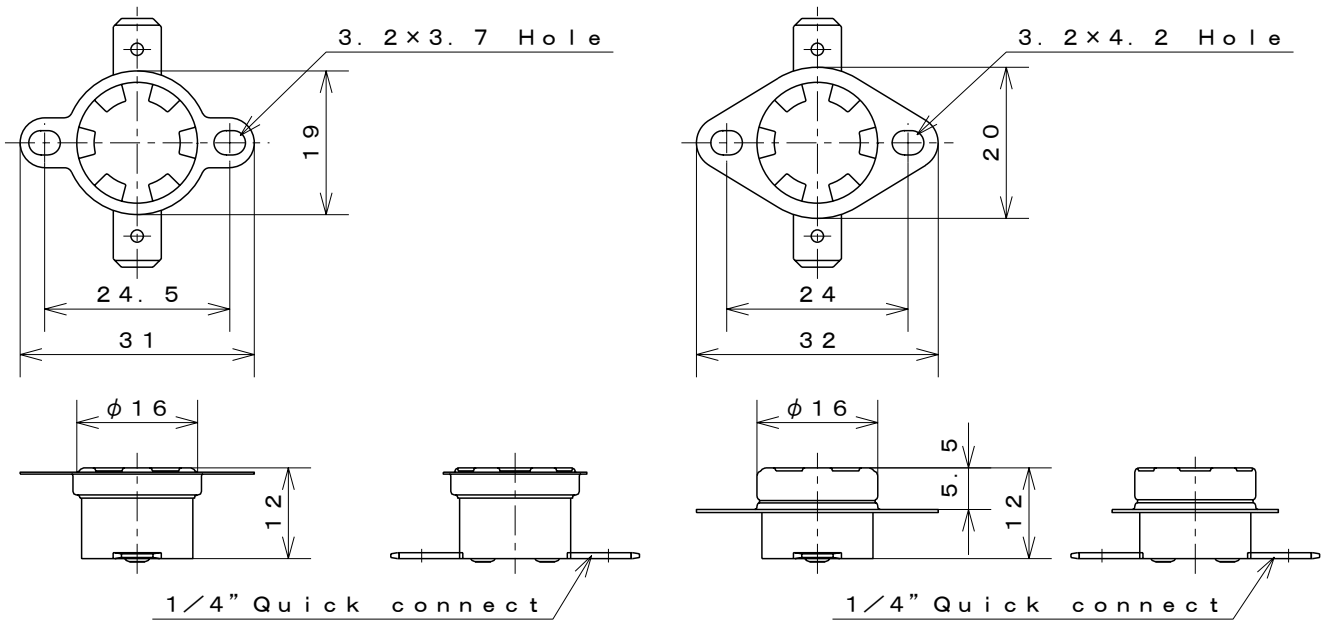
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 100896, 40004992
BS EN 60730-1, -2-9	BEAB Certificate	No. C0901

1/2" Disc Type Thermostat
Automatic Reset

Type 03EP

UL·CSA·VDE·BEAB Recognized

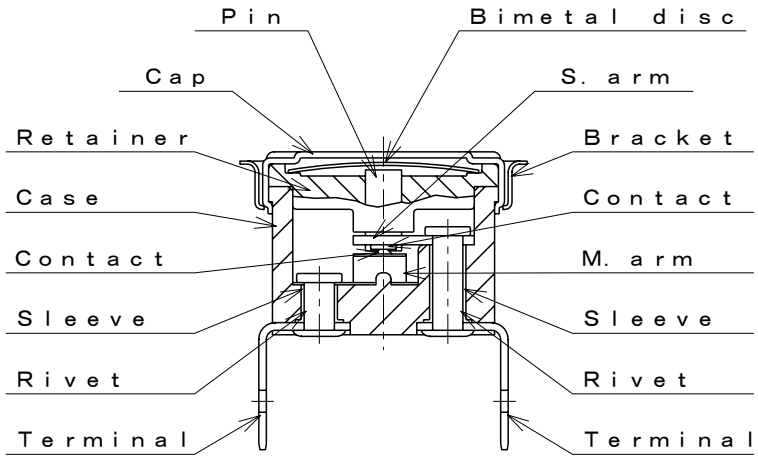
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	PGS-Crossbar

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC250V/0.2A DC42V/0.2A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

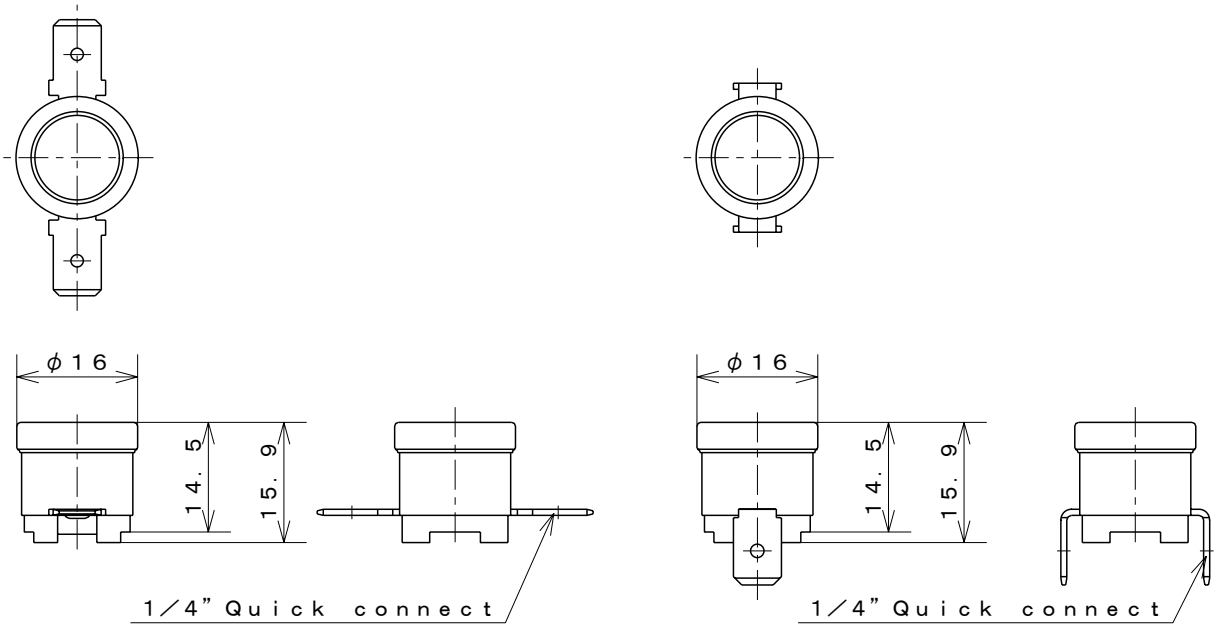
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 100896, 40004992
BS EN 60730-1, -2-9	BEAB Certificate	No. C0901

1/2" Disc Type Thermostat
High Temp.& Four Legs Type

Type 07N

UL·CSA·VDE Recognized

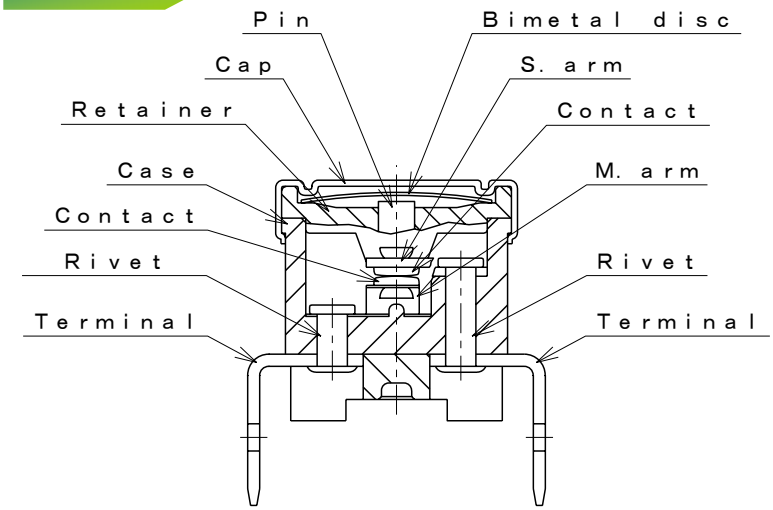
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification	
1. Basic features	SPST Automatic reset	
2. Operation	A : Contacts open on temperature rise	B : Contacts close on temperature rise
3. Electrical rating	VDE : AC250V/10A 100,000 Cycles AC250V/13A 30,000 Cycles AC250V/16A 10,000 Cycles	VDE : AC250V/10A 100,000 Cycles
	UL·C-UR : AC250V/10A 10,000 Cycles	
4. Calibration method	Hot & cold air circulation system	
5. Temperature rating	Operating temperature Max. 230℃ (VDE Normal open type Max.210℃)	
6. Insulation resistance	Not less than 1,000MΩ/DC500V	
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.	

Standard

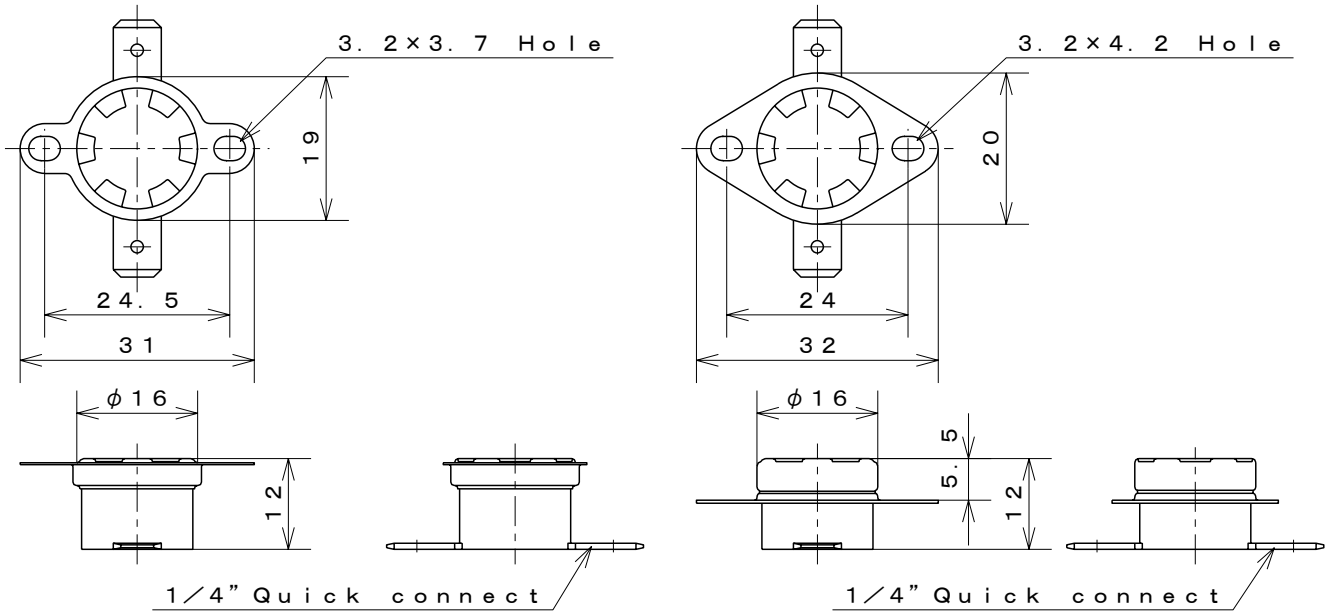
UL·C-UR 873 C22.2 No.24 UL File No. E43273
DIN EN 60730-1, -2-9 VDE Licence No. 100896, 40004992

1/2" Disc Type Thermostat
Automatic Reset

Type 21EN

UL·C-UR·VDE
Recognized

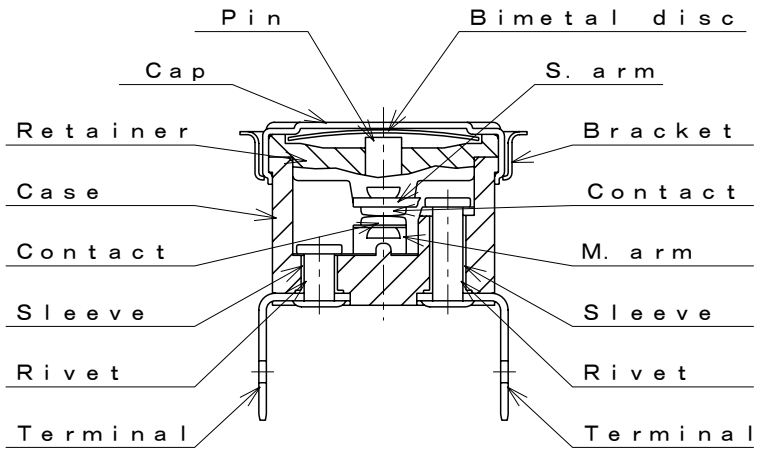
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC250V/16A 10,000 cycles VDE:AC250V/10A 100,000 cycles
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 180℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

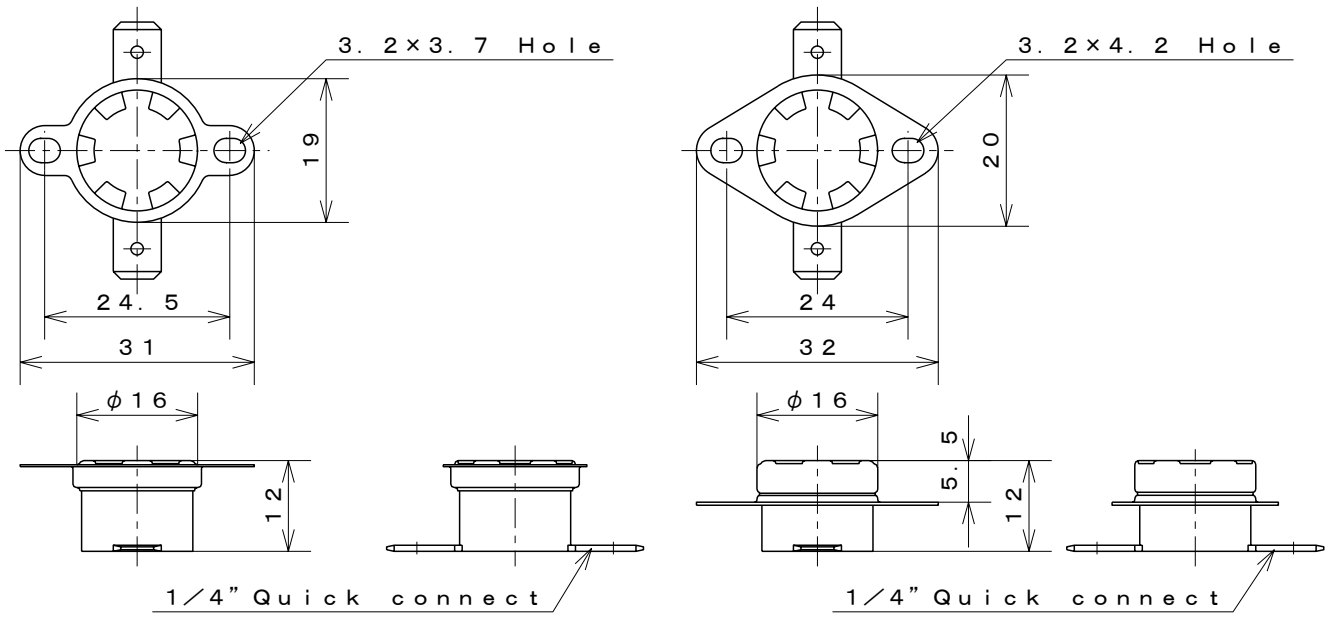
UL 873, C-UR UL File No. E43273
DIN EN 60730-1, -2-9 VDE Licence No. 100896, 40004992

1/2" Disc Type Thermostat
Automatic Reset

Type 21EP

UL·C-UR·VDE
Recognized

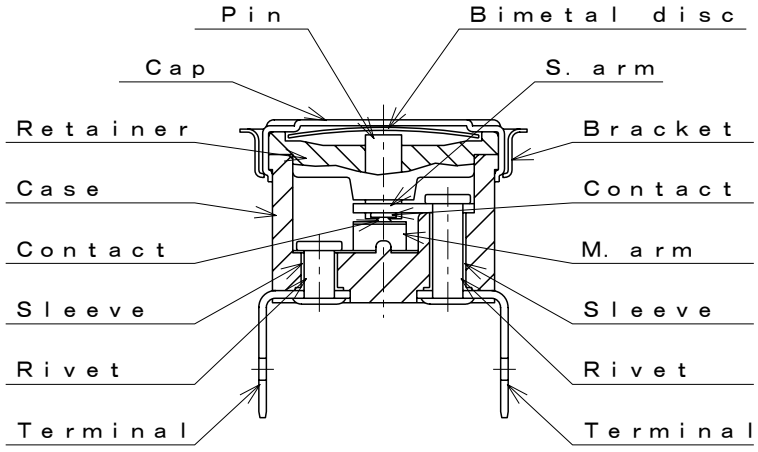
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	PGS-Crossbar

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC250V/0.2A DC42V/0.2A 100,000 cycles
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 180℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

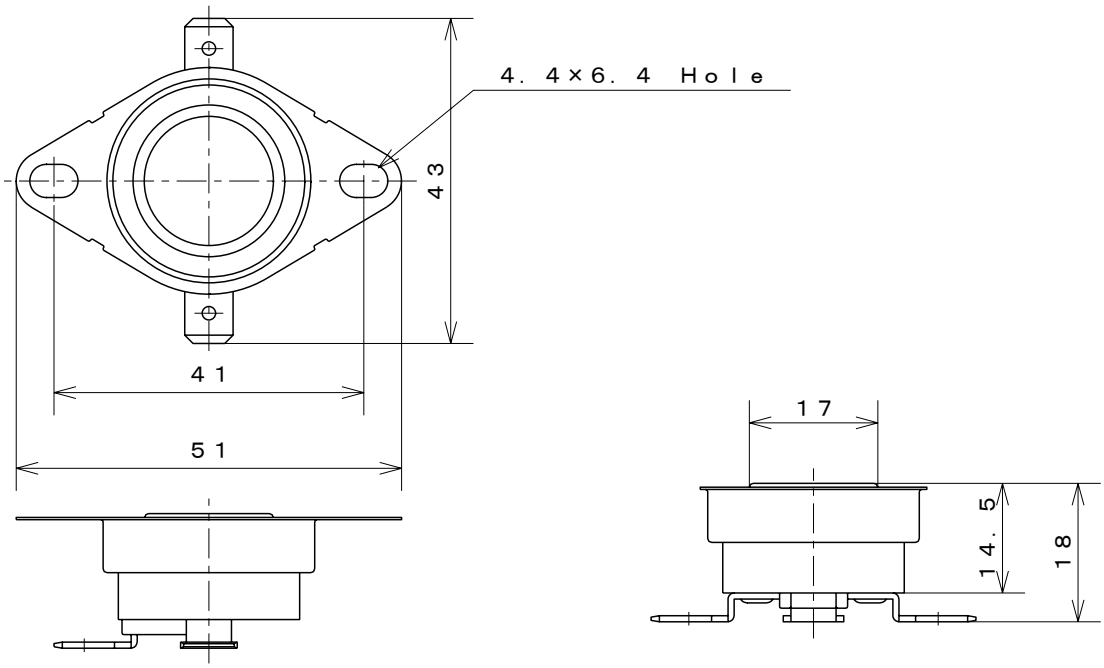
Standard

UL 873, C-UR UL File No. E43273
DIN EN 60730-1, -2-9 VDE Licence No. 100896, 40004992

3/4" Disc Type Thermostat
Automatic Reset

Type 30 Series

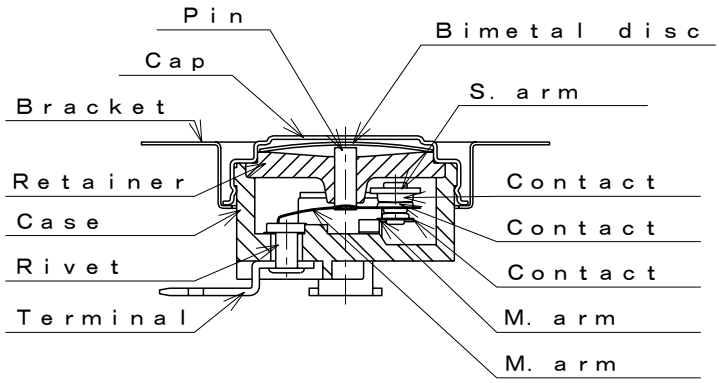
Dimensions



Materials of parts

Part	Material
Cap	Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy (31,32) Silver (33)

Structure



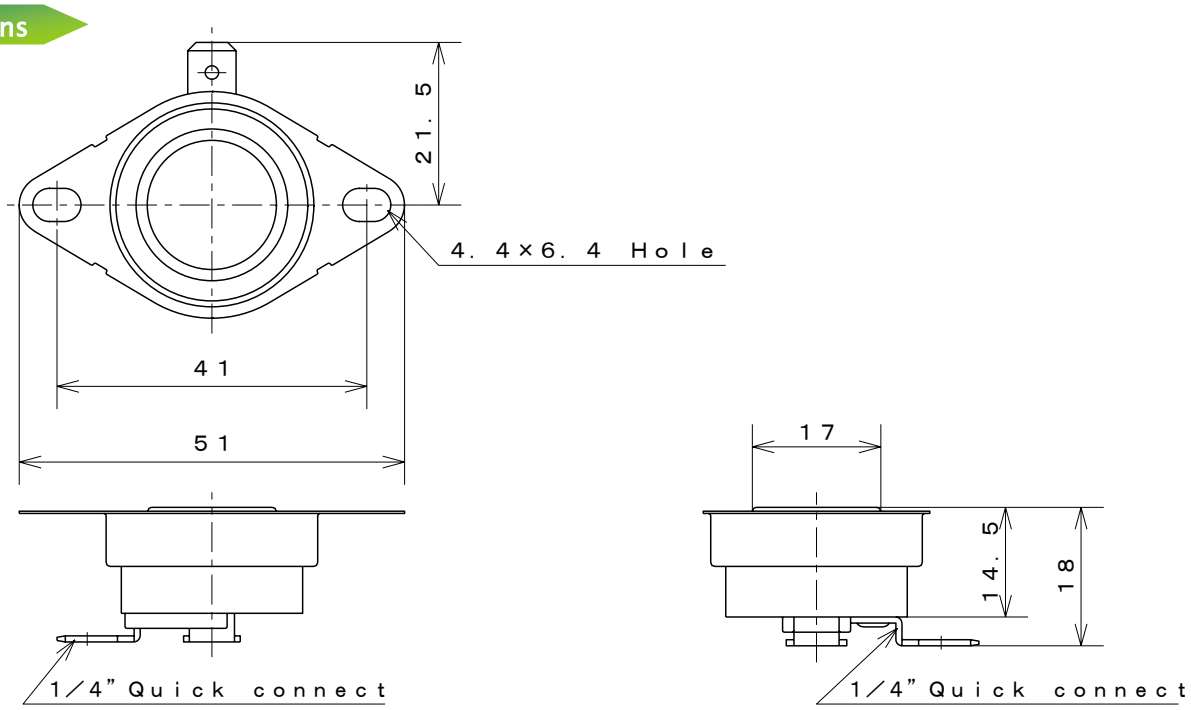
Specification

Item	Specification
1. Basic features	SPDT Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating by variation of Type	31 :C-A AC125V/20A AC250V/15A :C-B AC125V/10A AC250V/ 8A 32 :C-A AC125V/20A AC250V/15A :C-B AC125V/ 3A AC250V/ 3A 33 :C-A AC125V/ 3A AC250V/ 3A :C-B AC125V/ 3A AC250V/ 3A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than AC1,000MΩ/DC500V.
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

3/4" Disc Type Thermostat
Automatic Reset

Type 41

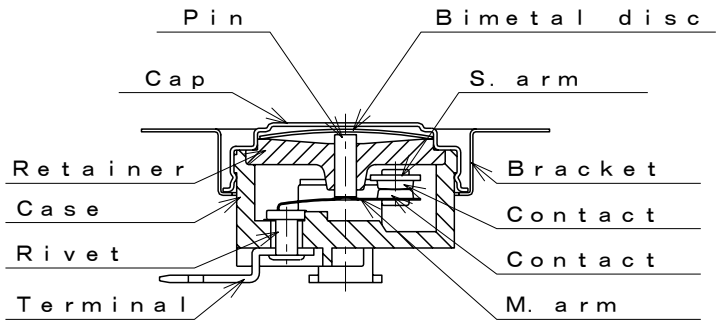
Dimensions



Materials of parts

Part	Material
Cap	Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

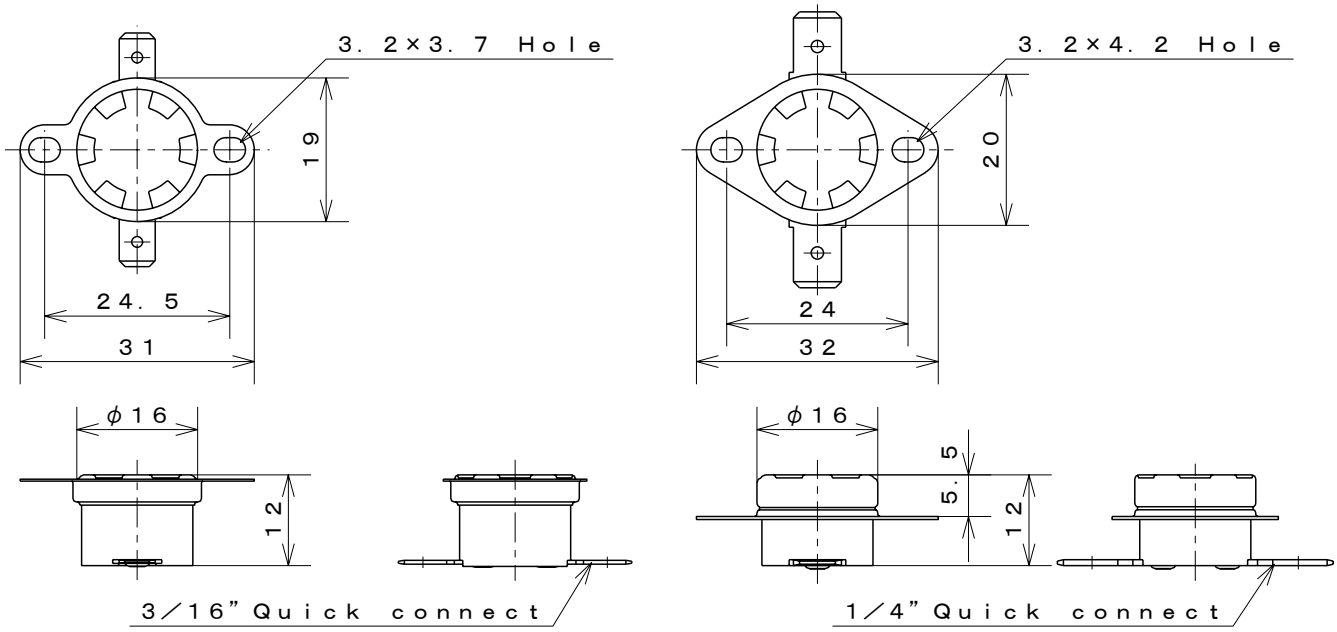
Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/20A AC250V/15A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

1/2" Disc Type Thermostat
High Temp. Type

Type 52N

UL·CSA·VDE Recognized

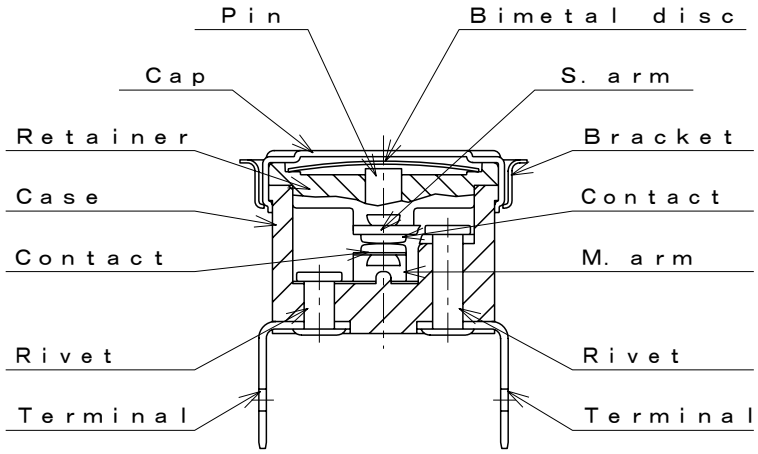
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	UL, CSA : AC125V/15A AC250V/10A (100,000 cycles) VDE : AC250V/10A (100,000 cycles) , AC250V/16A (10,000 cycles)
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 200℃ 230℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

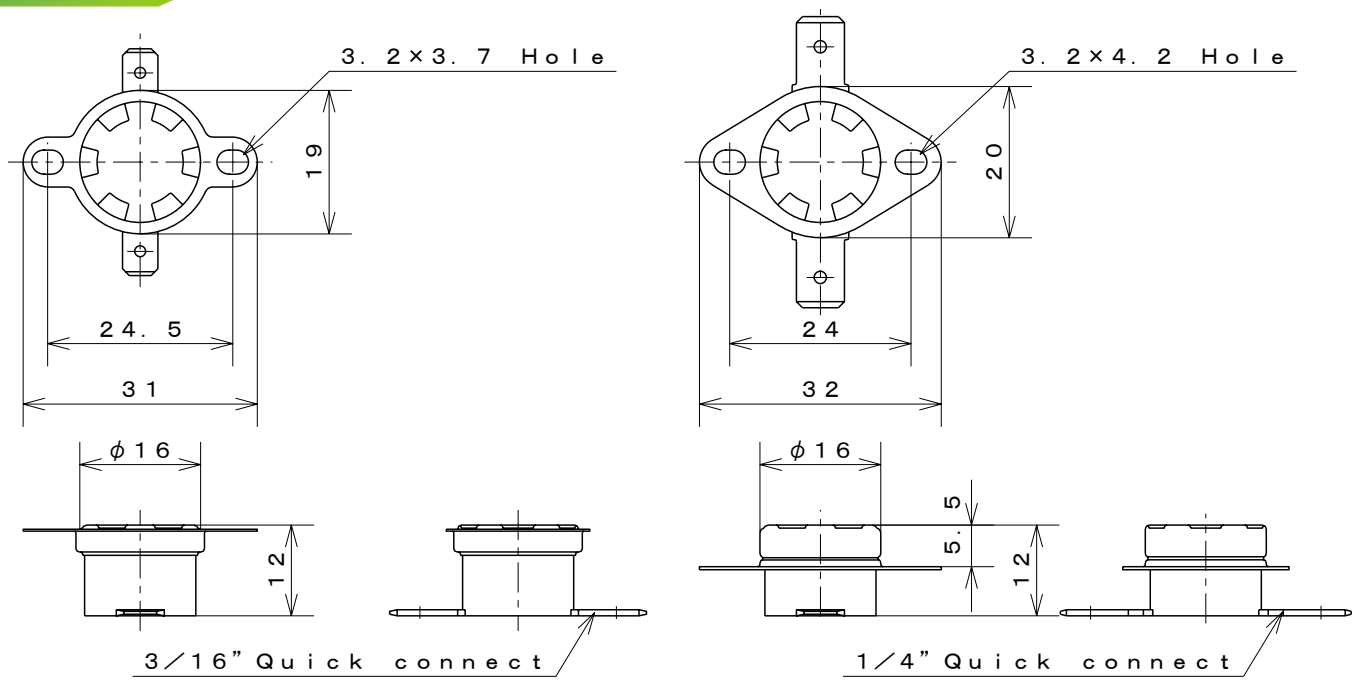
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 100896, 40004992

1/2" Disc Type Thermostat
High Temp. Type

Type 52P

UL·CSA·VDE Recognized

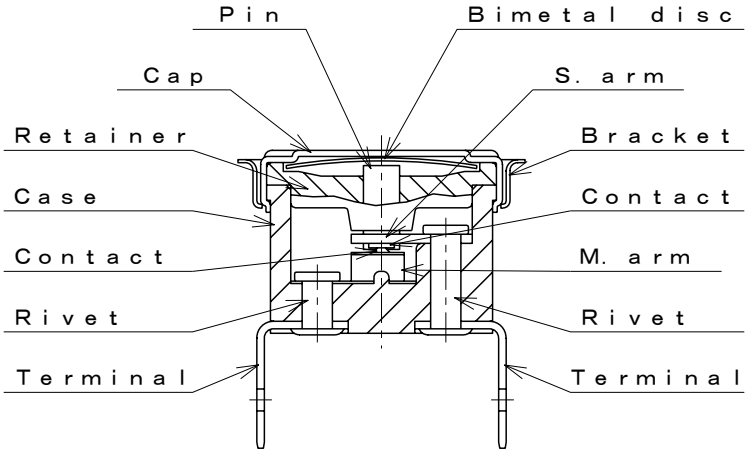
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	PGS-Crossbar

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC250V/0.2A DC42V/0.2A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 230℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

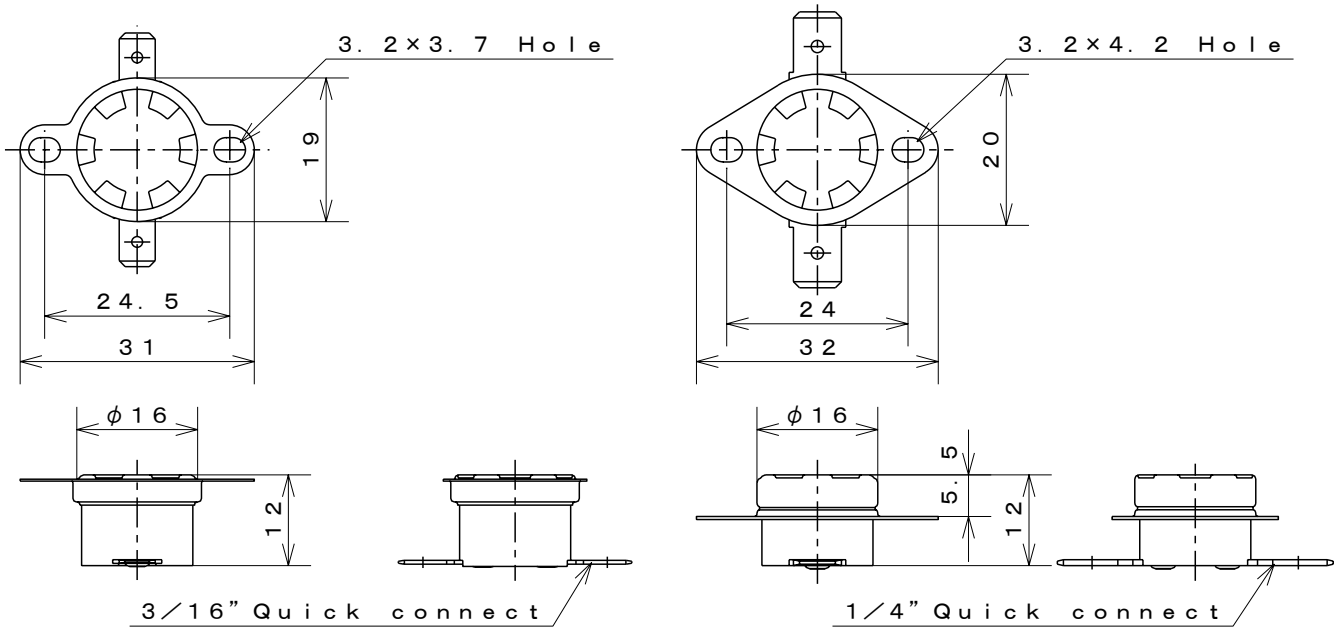
Standard

UL 873, C-UR	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 100896, 40004992

1/2" Disc Type Thermostat
Automatic Reset

Type 54N

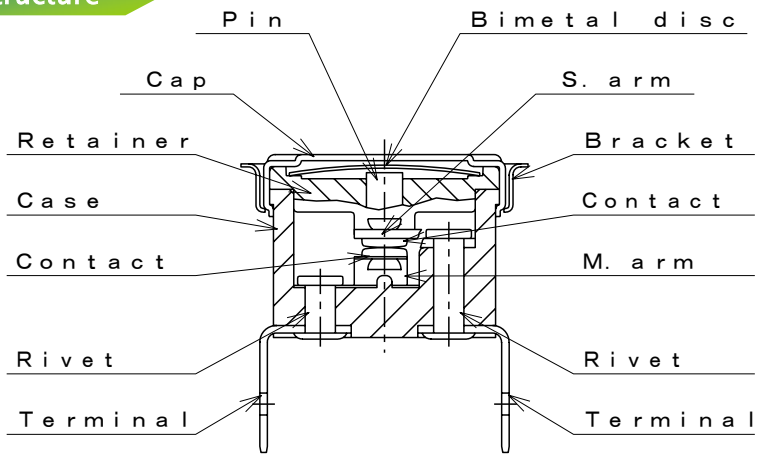
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/15A AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

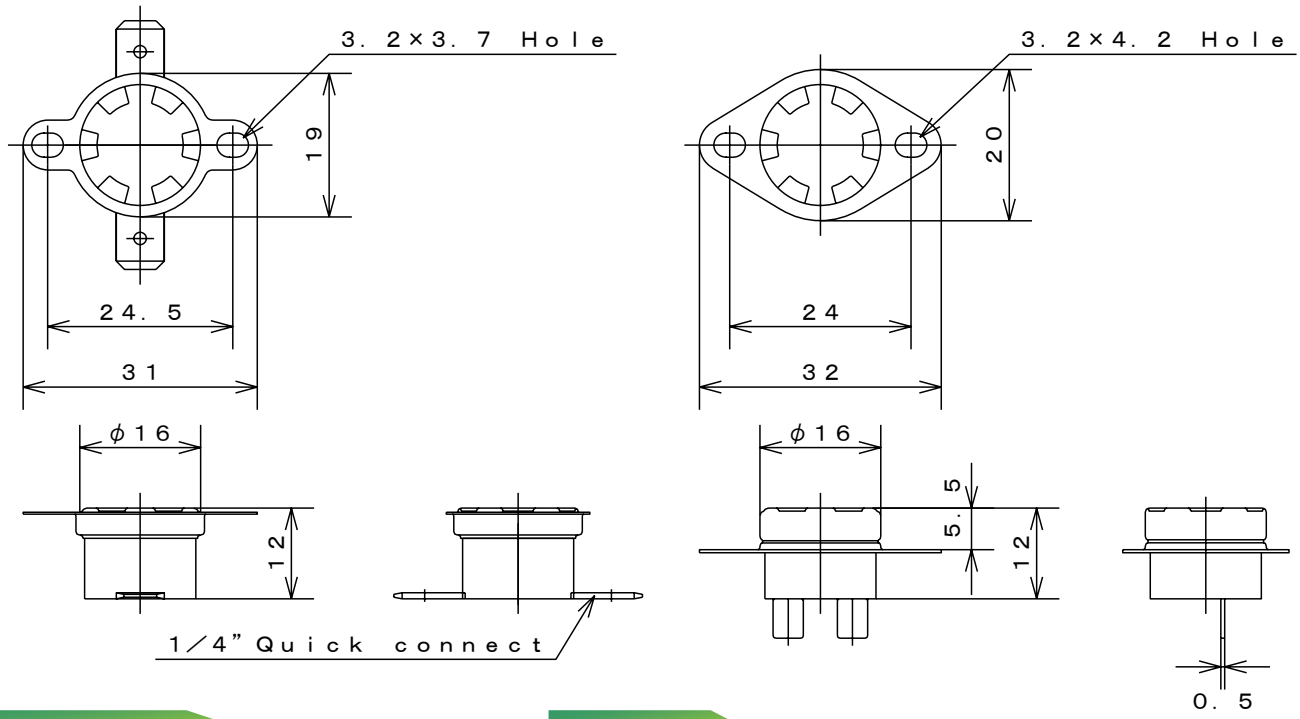
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166

1/2" Disc Type Thermostat
High Temp. Type

Type 55H

VDE
Recognized

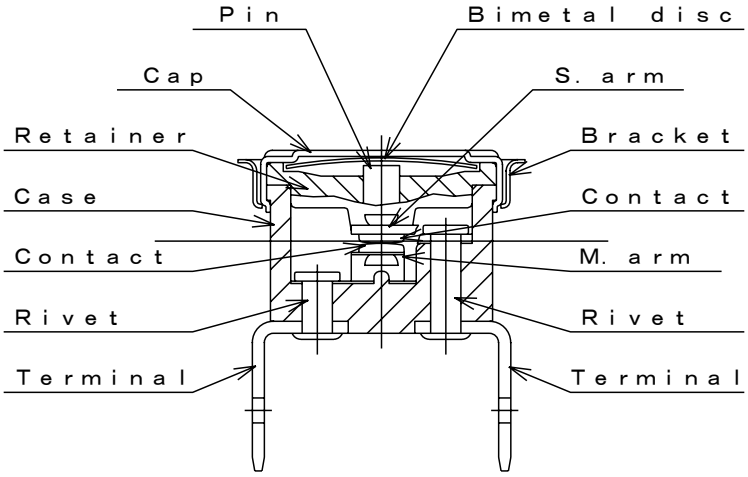
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Nickel alloy
Terminals	Steel #250 Tab, Weld
Bracket	Stainless steel
Contacts	Silver

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC250V/7A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 260℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

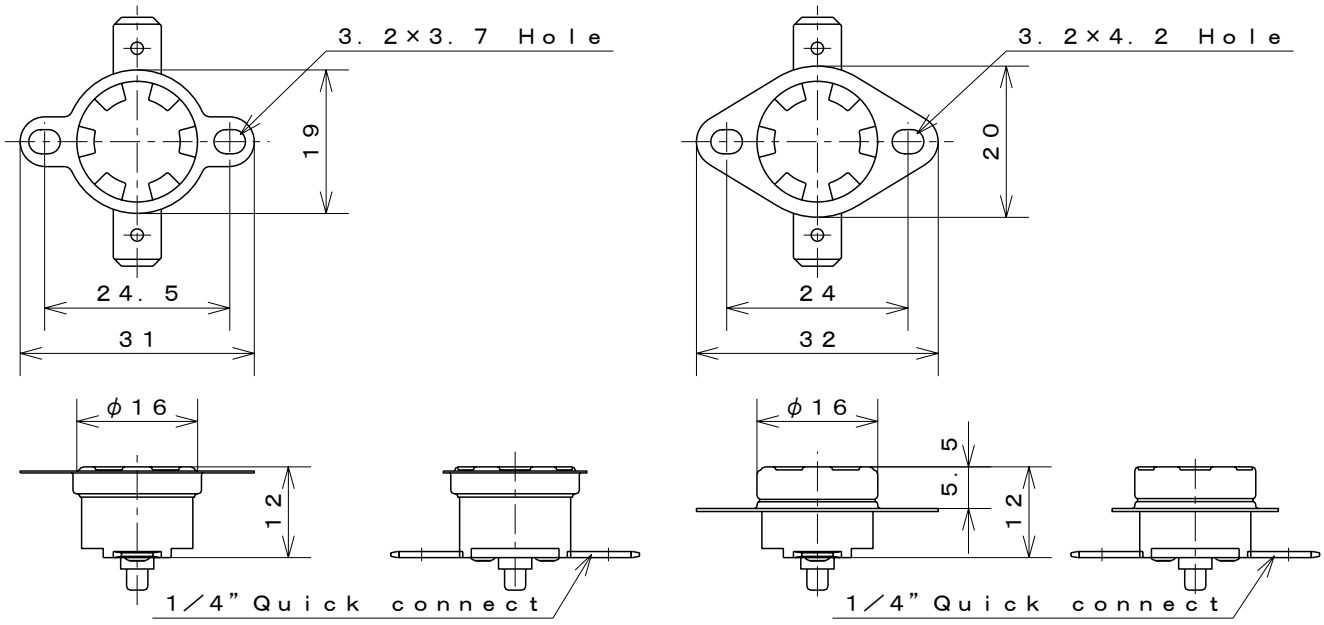
DIN EN 60730-1, -2-9 VDE Licence No. 100896, 40004992

1/2" Disc Type Thermostat
Manual Reset

Type 05EN

UL·CSA·VDE
Recognized

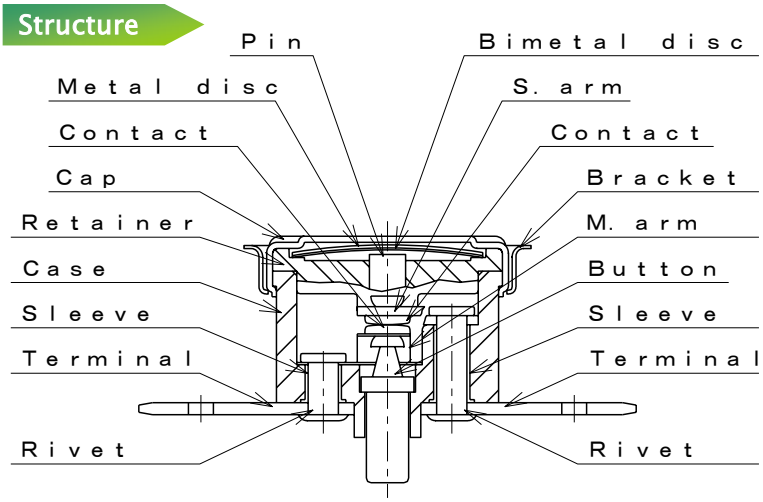
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy
Button	Phenolic resin

Structure



Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	UL : AC120V/15A AC240V/10A CSA : AC125V/15A AC250V/10A VDE : AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

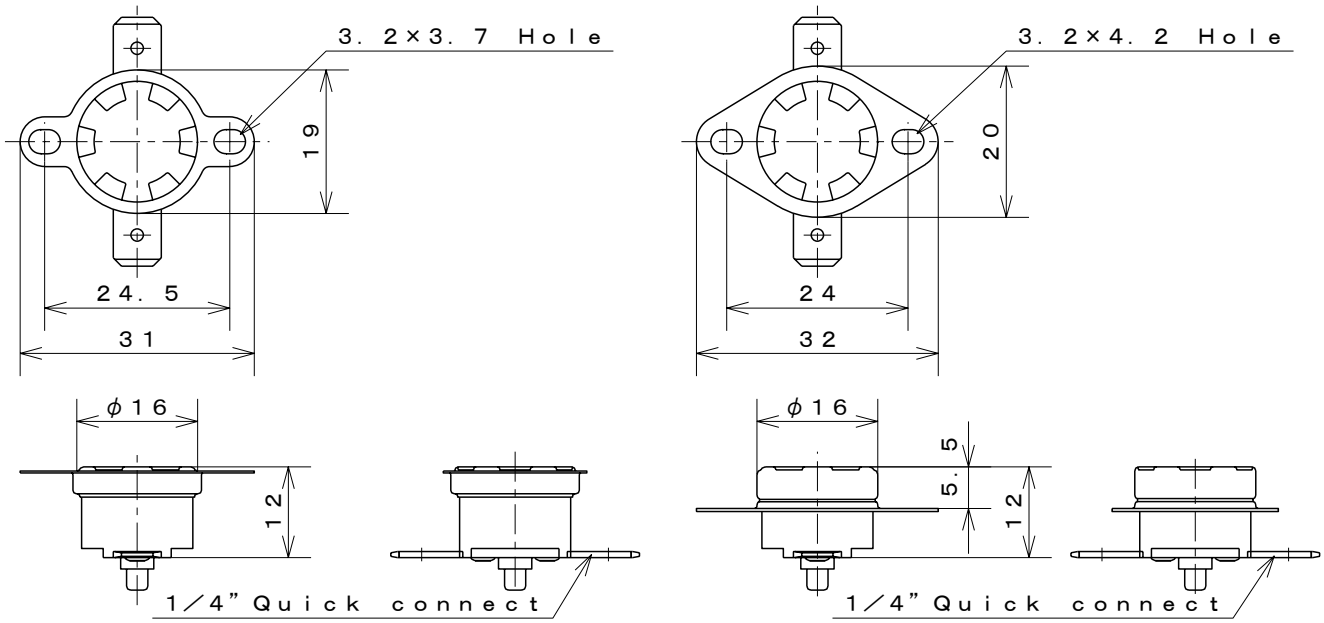
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 40012267

1/2" Disc Type Thermostat
Manual Reset

Type 05EP

UL·CSA·VDE
Recognized

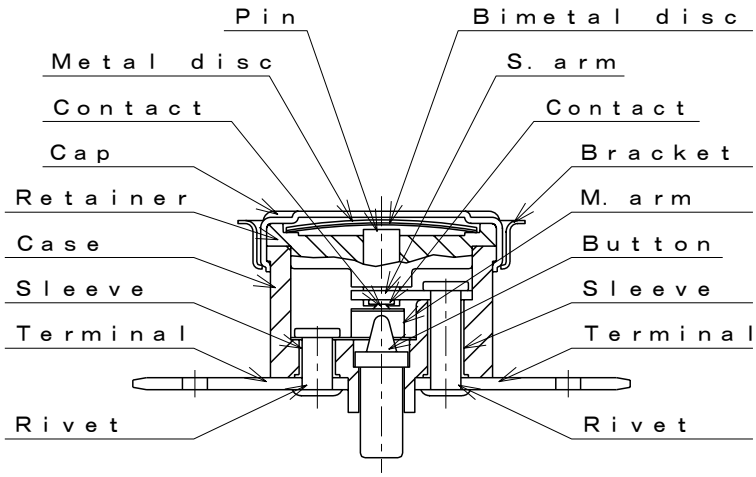
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	PGS-Crossbar
Button	Phenolic resin

Structure



Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	UL /CSA : AC250V/0.1A DC30V/0.1A VDE : AC250V/0.2A DC42V/0.2A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

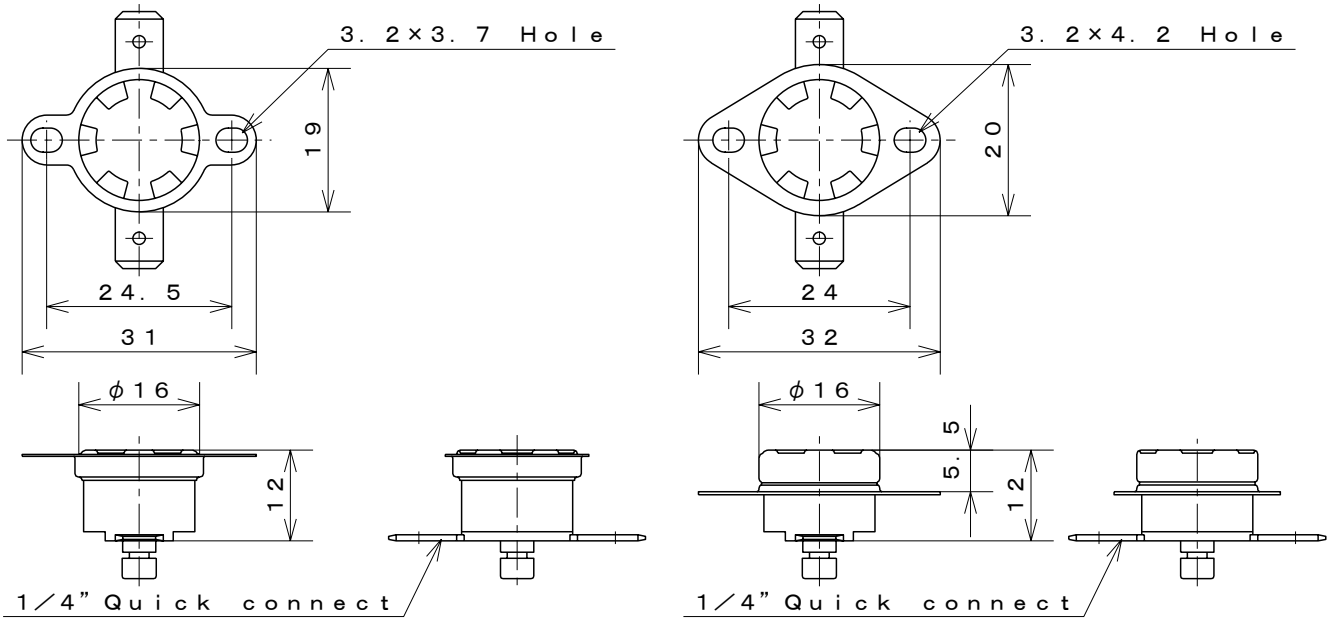
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 40012267

1/2" Disc Type Thermostat
High Temp. Manual Reset

Type 15N

UL·C-UR·VDE Recognized

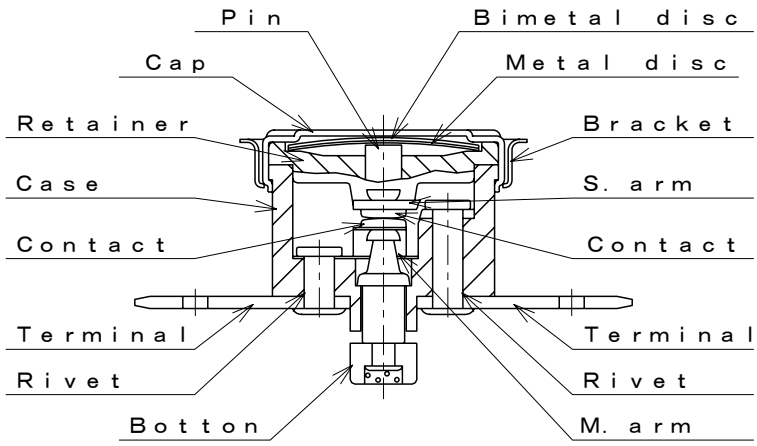
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy (N)

Structure



Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	AC250V/15A AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 230℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

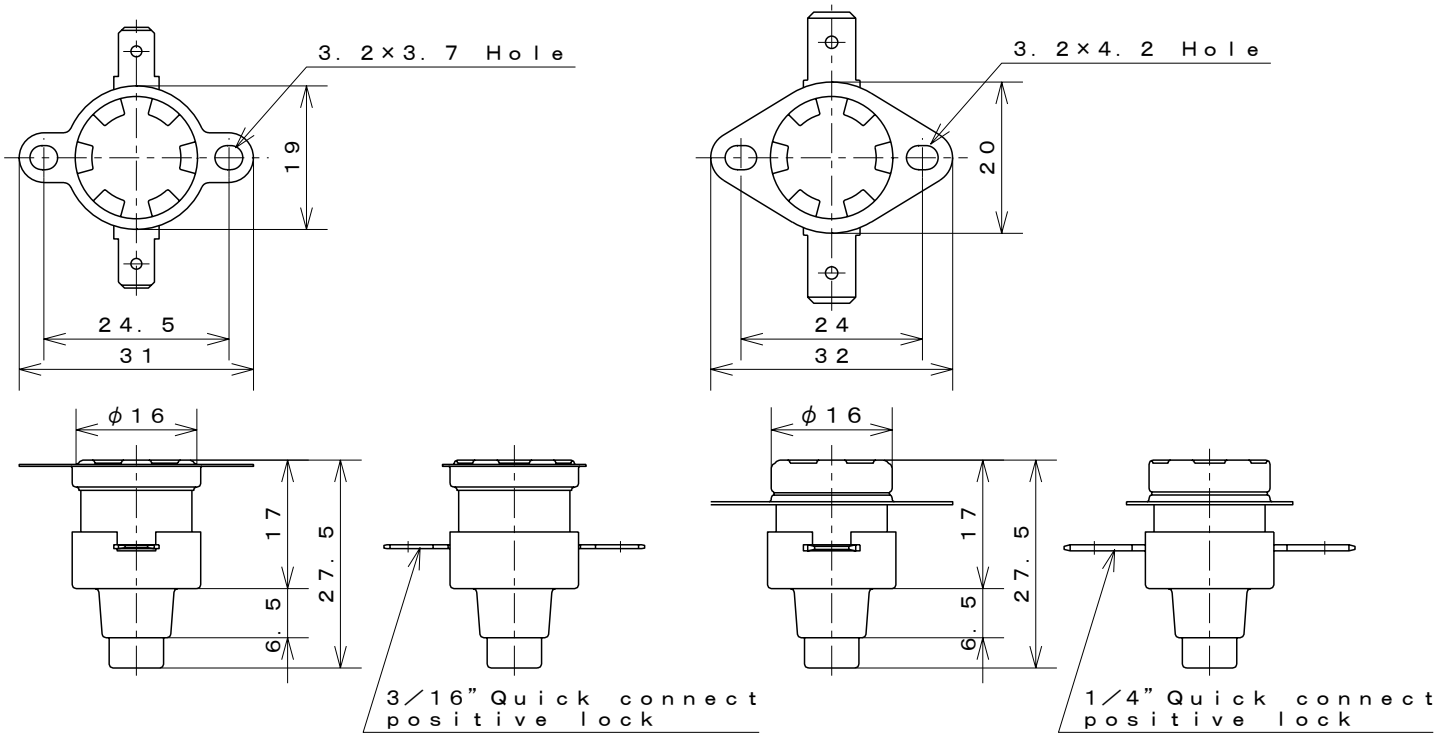
MITI (JET) J-58
UL 60730-1, -2-9 UL File No. E201152
DIN EN 60730-1, -2-9 VDE Licence No. 40019831

1/2" Disc Type Thermostat
Manual Reset

Type 23EN

UL·CSA·VDE
Recognized

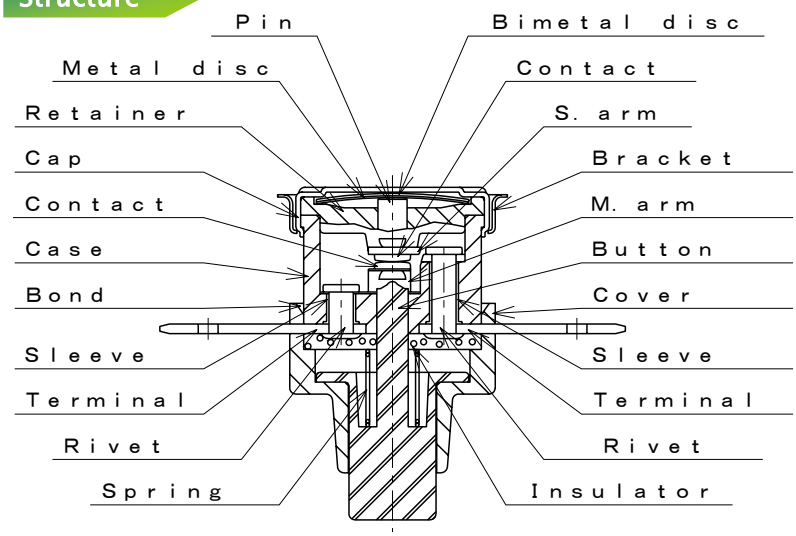
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy
Button	Phenolic resin

Structure



Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	UL, C-UR : AC120V/15A AC240V/10A 6,000 cycles VDE : AC250V/16A 3,000 cycles
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

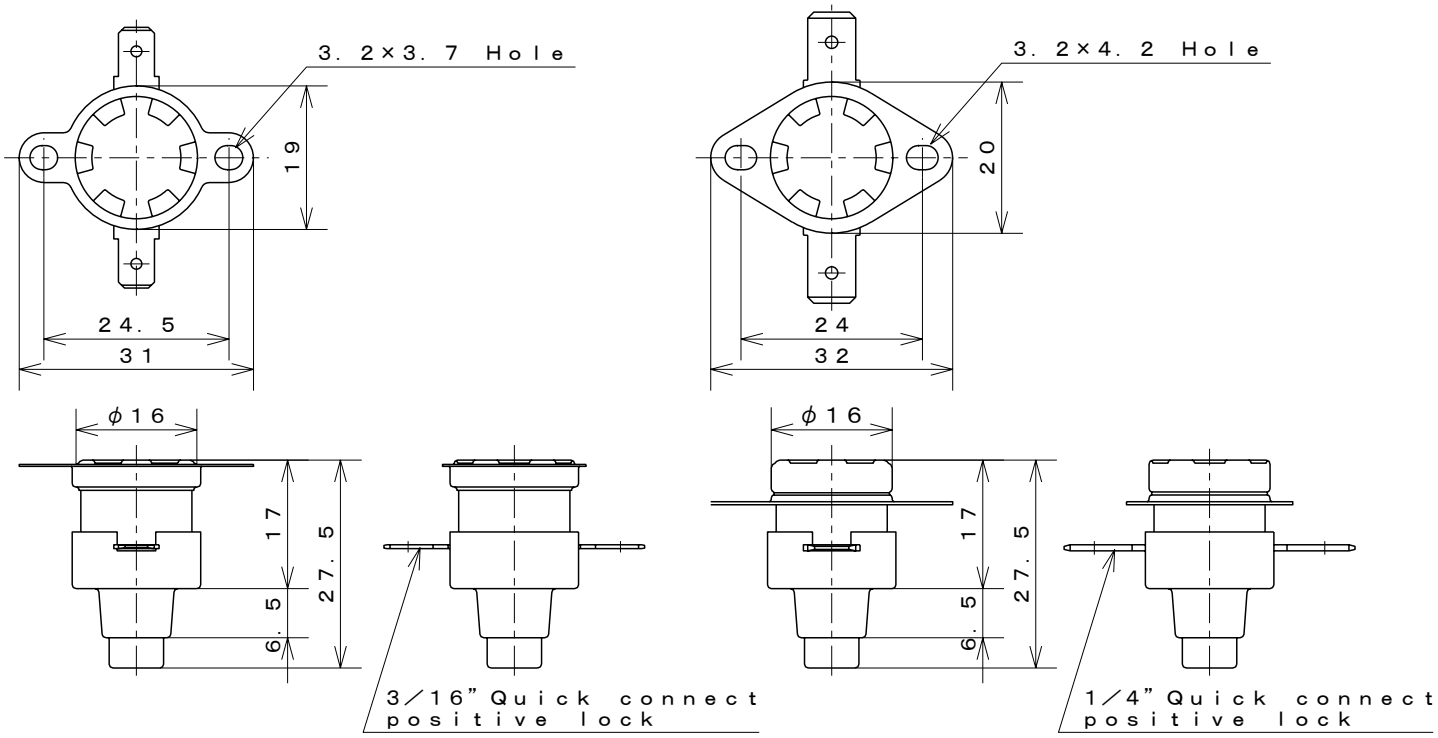
UL 873, C-UR UL File No. E43273
DIN EN 60730-1, -2-9 VDE Licence No. 40012267

1/2" Disc Type Thermostat
Manual Reset

Type 23EP

VDE
Recognized

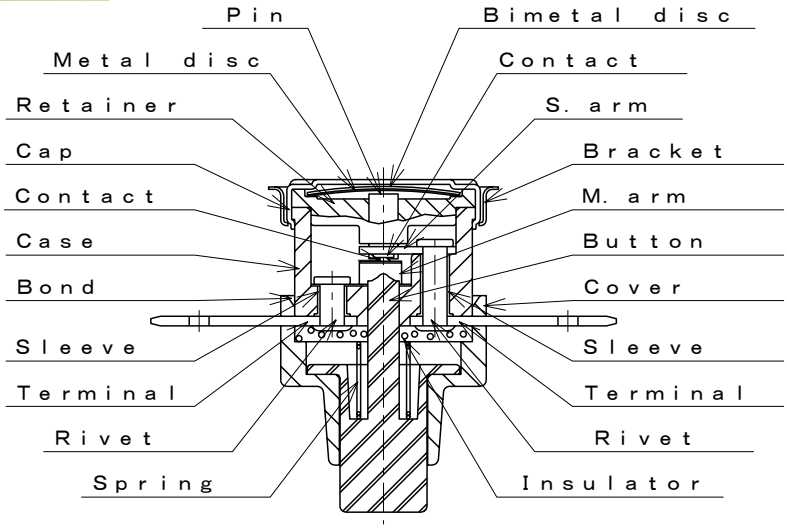
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	PGS-Crossbar
Button	Phenolic resin

Structure



Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	AC250V/0.2A DC42V/0.2A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

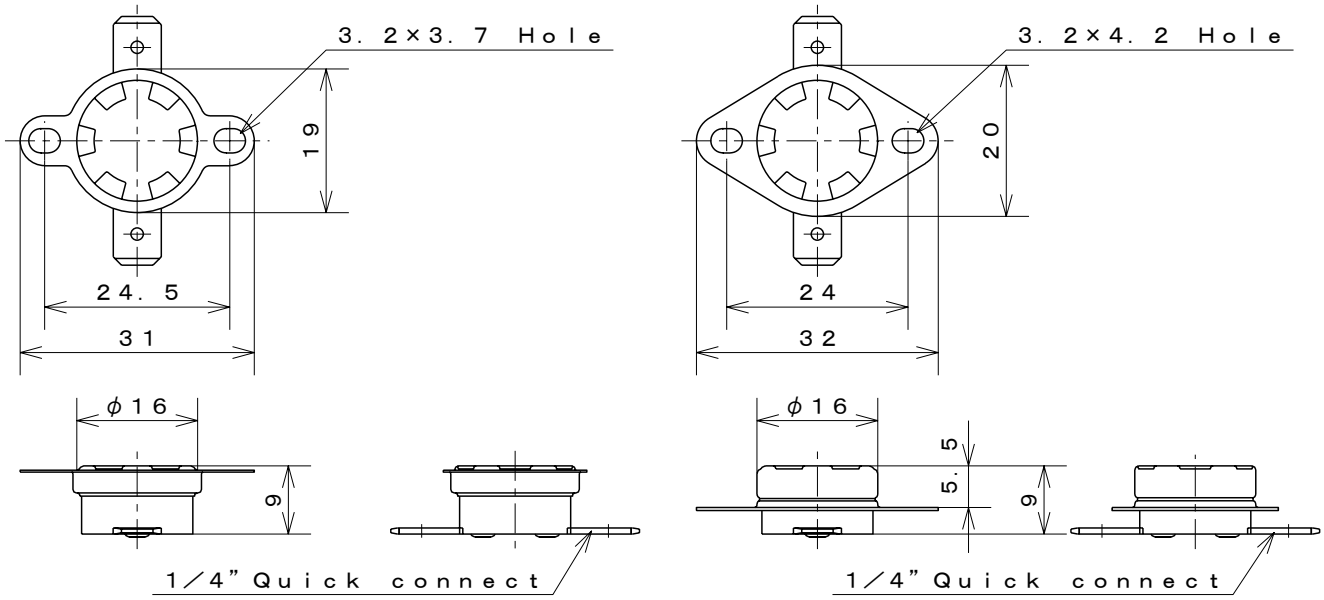
DIN EN 60730-1, -2-9 VDE Licence No. 40012267

1/2" Disc Type Thermostat
Thin Type

Type 10N

UL·CSA
Recognized

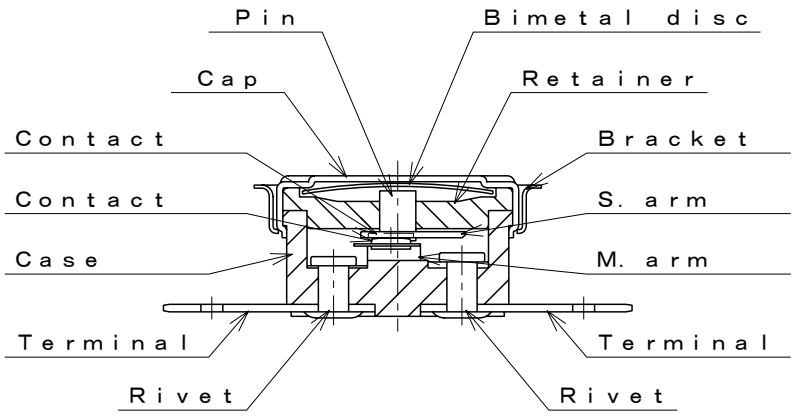
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Copper alloy
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/15A AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 200℃(UL:175℃ CSA:200℃)
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

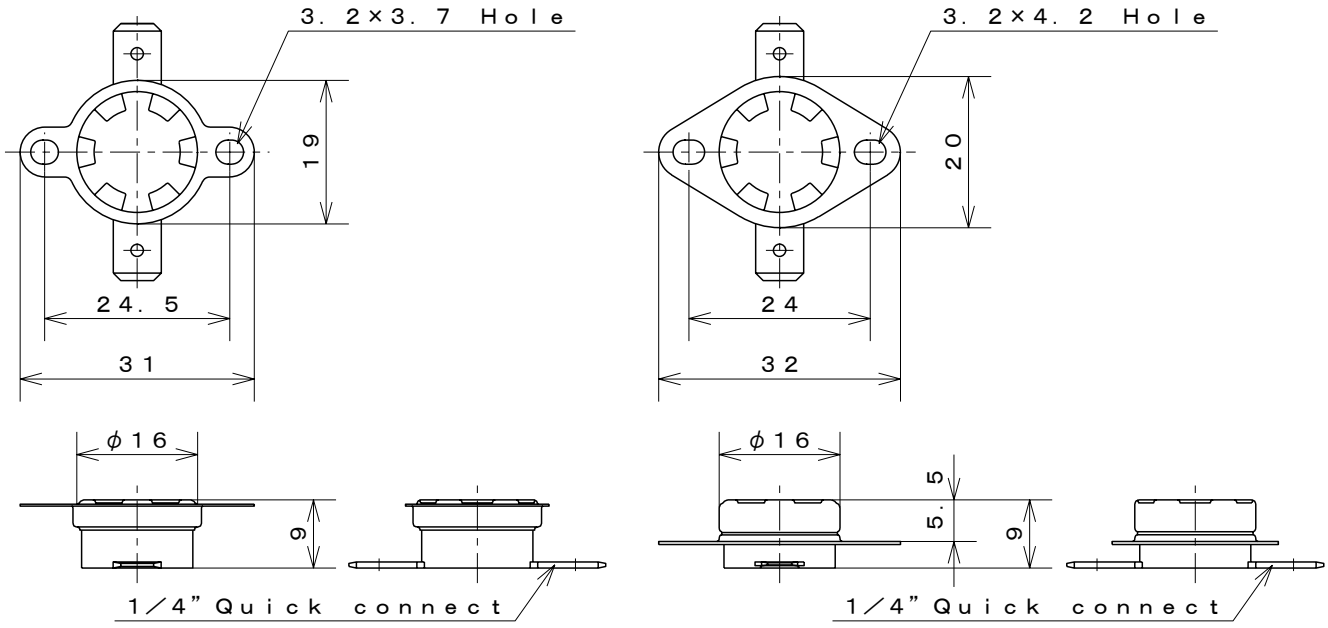
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166

1/2" Disc Type Thermostat
Thin Type

Type 11EN

UL·CSA·VDE
Recognized

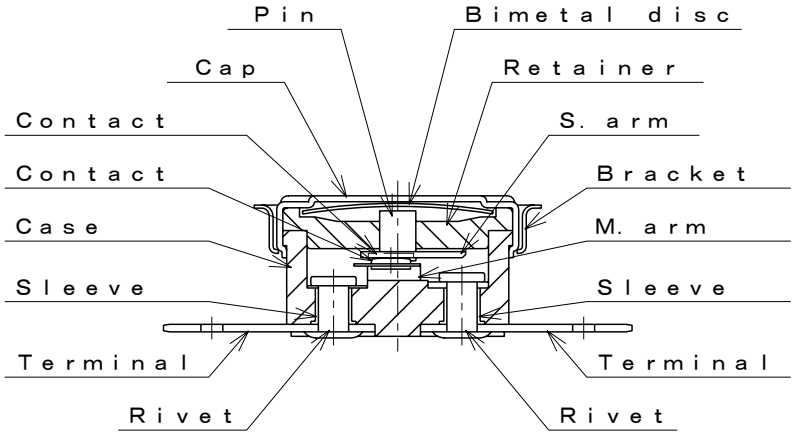
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/15A AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

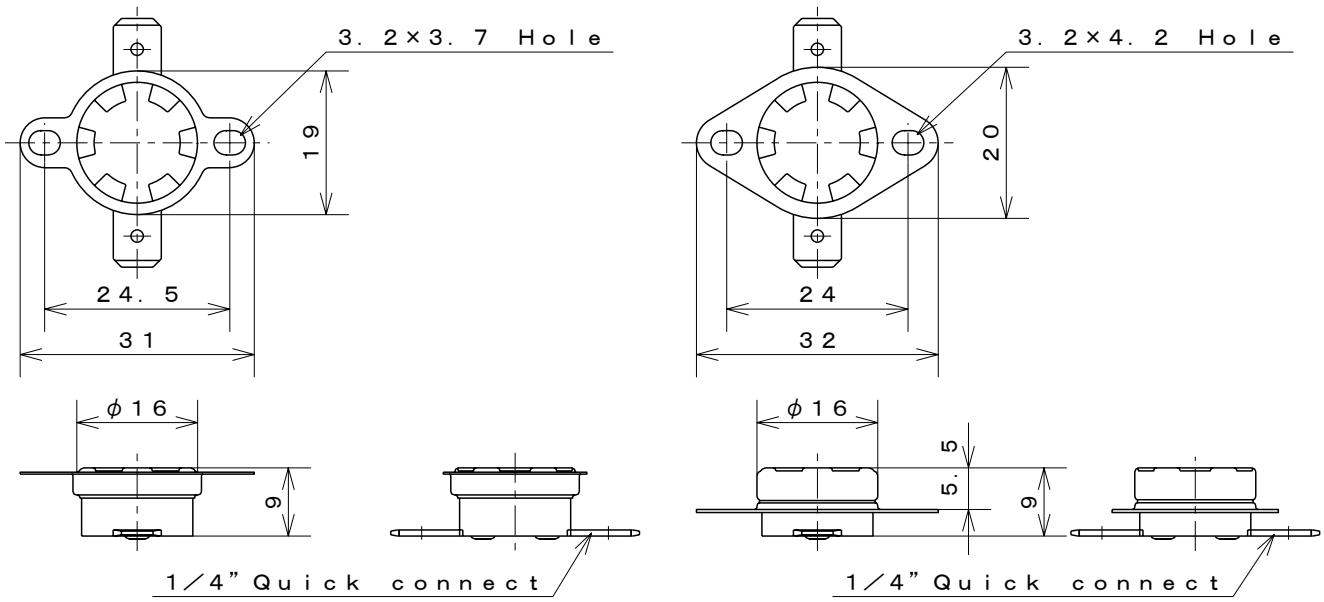
UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 104140, 40004286

1/2" Disc Type Thermostat
Thin Type

Type 11ES

UL·CSA·VDE
Recognized

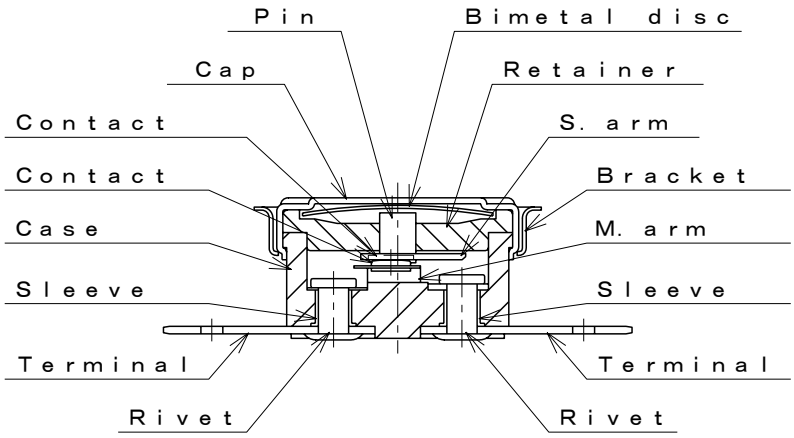
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/6A AC250V/3A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

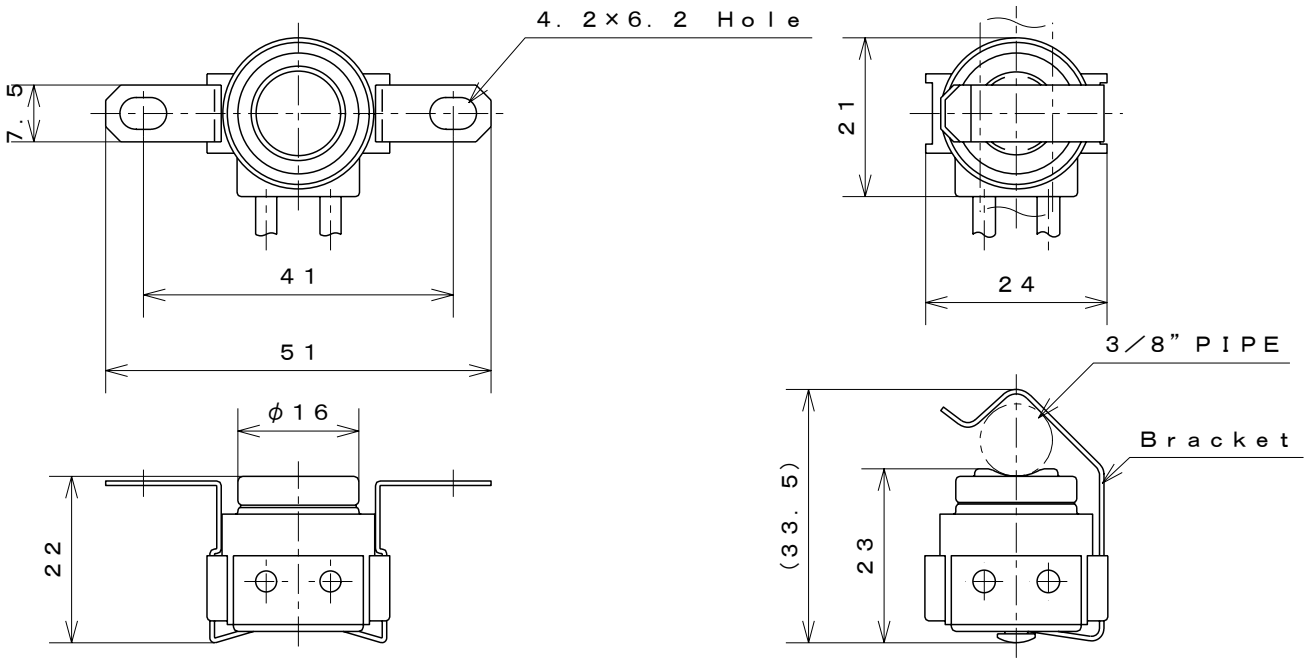
Standard

UL 873	UL File	No. E43273
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 104140, 40004286

1/2" Disc Type Thermostat
Water Proof Type

Type 12EN for Europe

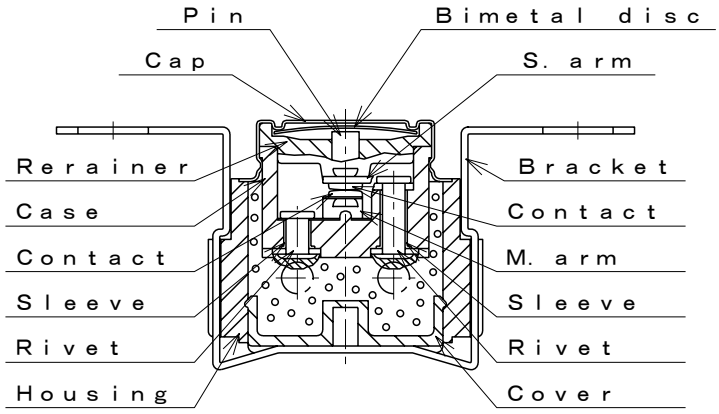
Dimensions



Materials of parts

Part	Material
Cap	Copper Stainless steel
Case	Phenolic resin
Husing	Polycarbonate
Bracket	Stainless steel
Fulling	Polyurethane
Leads	PVC 1.25mm^2
Contacts	Silver-Nickel alloy (N) Silver (C) PGS-Crossbar (X, P)

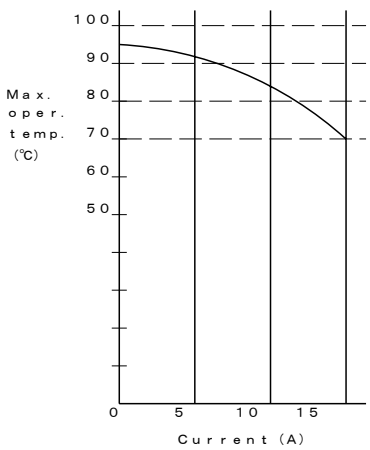
Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temp. rise F : Contacts close on temp. rise
3. Electrical rating by variation of contacts	N : AC125V/15A AC250V/ 8A C : AC125V/ 6A AC250V/ 3A X : AC125V/ 1A DC30V/ 1A P : AC125V/0.2A DC30V/0.2A
4. Calibration method	Hot & cold air or liquid circulation system
5. Insulation resistance	Not less than 1,000MΩ/DC500V
6. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.
7. Resistance batween Lead (at Lead is 1 meter)	N,C : Not more than 100mΩ X,P : Not more than 50mΩ

Relation of current & Max. operating temp.

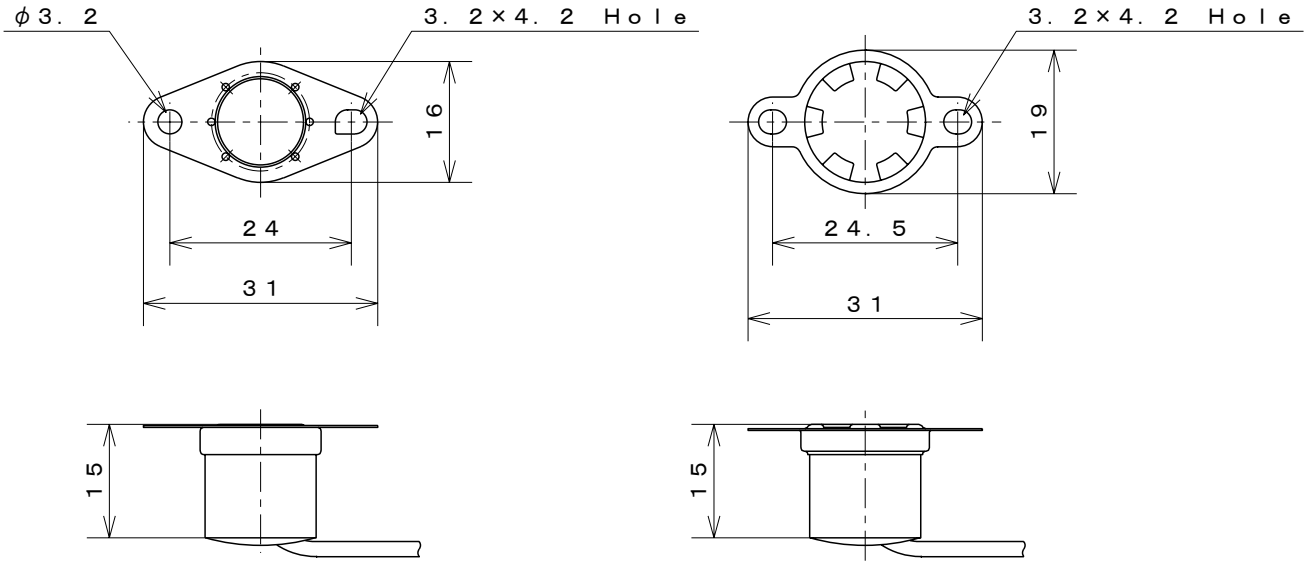


1/2" Disc Type Thermostat
Drip-proof Type. Automatic Reset

Type 20N

UL·C-UR Recognized

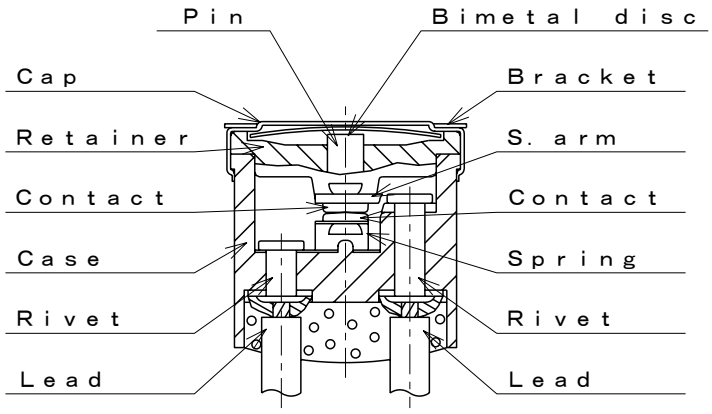
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Leads	UL1430 etc
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC120V/15A AC240V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 80℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

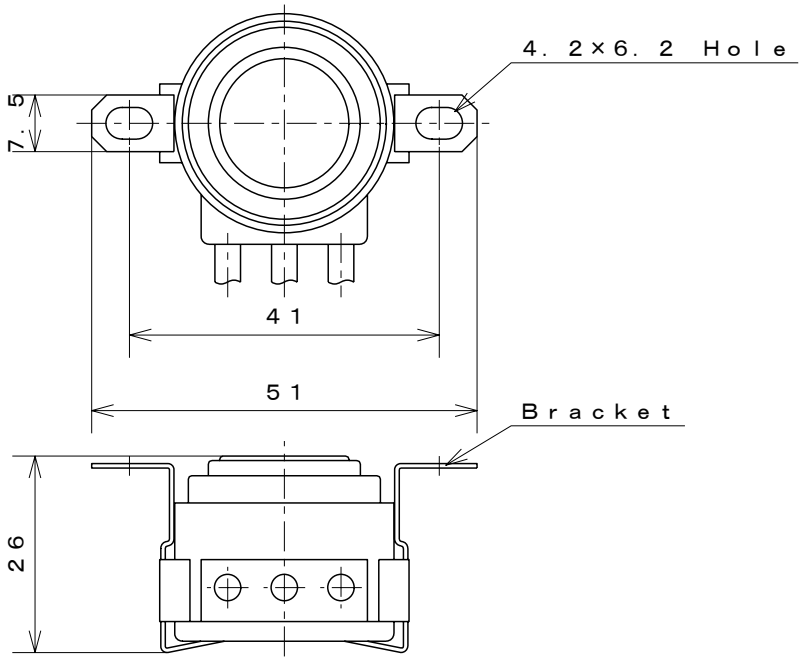
Standard

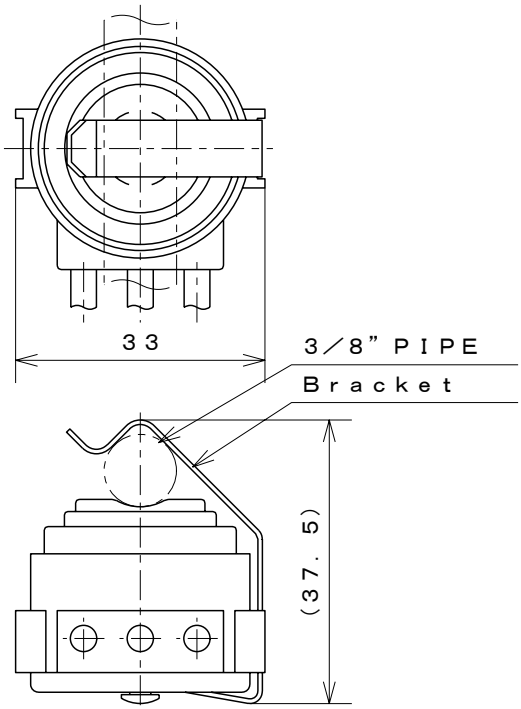
UL 873, C-UR UL File No. E43273

3/4" Disc Type Thermostat
Water-proof Type Automatic Reset

Type 30 Series

Dimensions

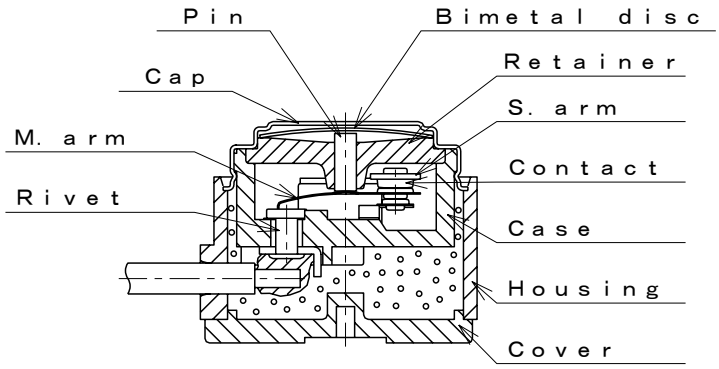




Materials of parts

Part	Material
Cap	Copper Stainless steel
Case	Phenolic resin
Housing	Polycarbonate
Bracket	Stainless steel
Fulling	Polyurethane
Leads	PVC
Contacts	Silver-Nickel alloy (36,37) Silver (38)

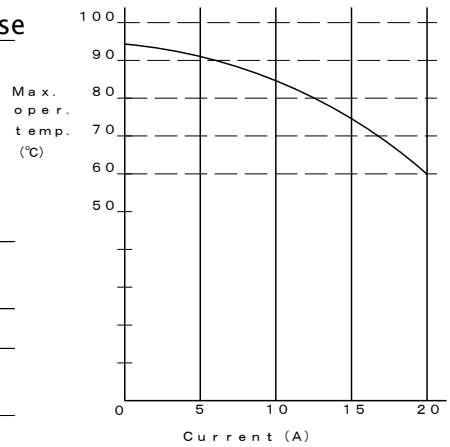
Structure



Relation of current & Max. operation temp.

Specification

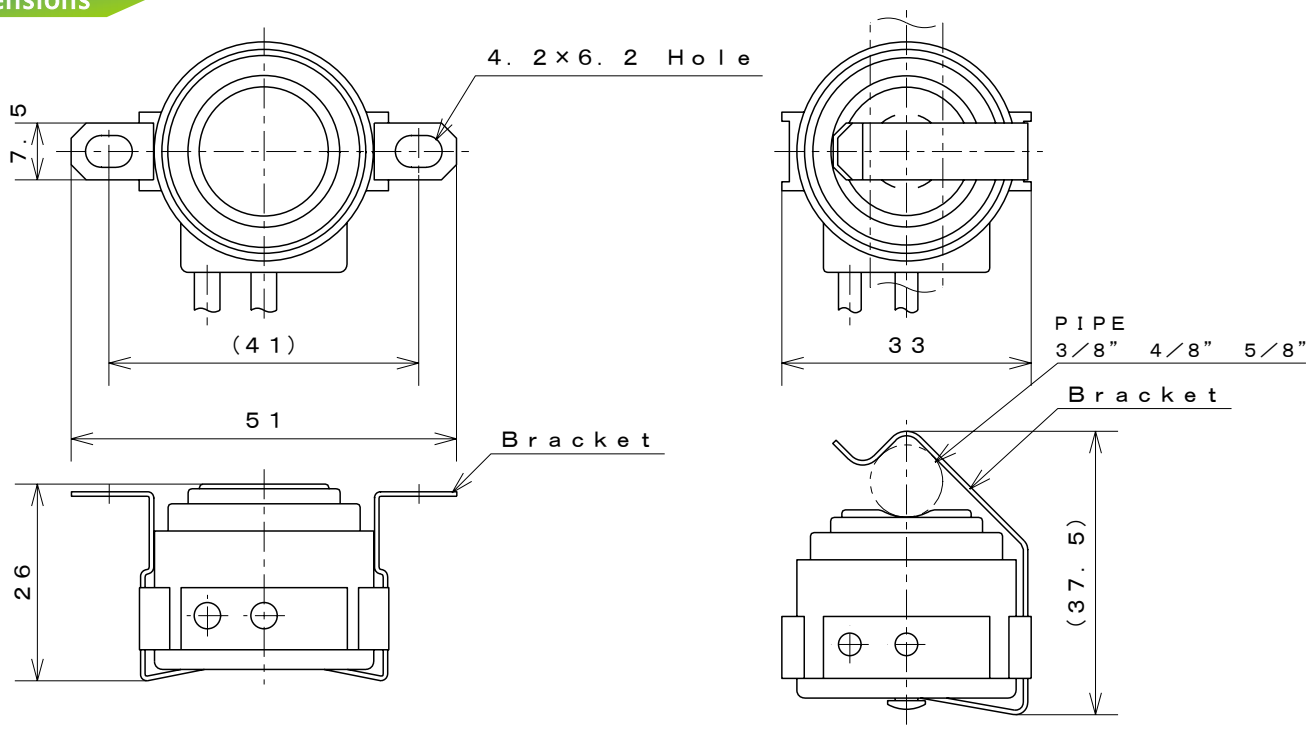
Item	Specification
1. Basic features	SPDT Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	36 :C-A AC125V/20A AC250V/15A :C-B AC125V/10A AC250V/ 8A 37 :C-A AC125V/20A AC250V/15A :C-B AC125V/ 3A AC250V/ 3A 38 :C-A AC125V/ 3A AC250V/ 3A :C-B AC125V/ 3A AC250V/ 3A
4. Calibration method	Hot & cold air or liquid circulation system
5. Insulation resistance	Not less than 1,000MΩ/DC500V
6. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.
7. Resistance between Lead (at lead is 1m)	Not more than 100mΩ



3/4" Disc Type Thermostat
Water-proof Type Automatic Reset

Type 46

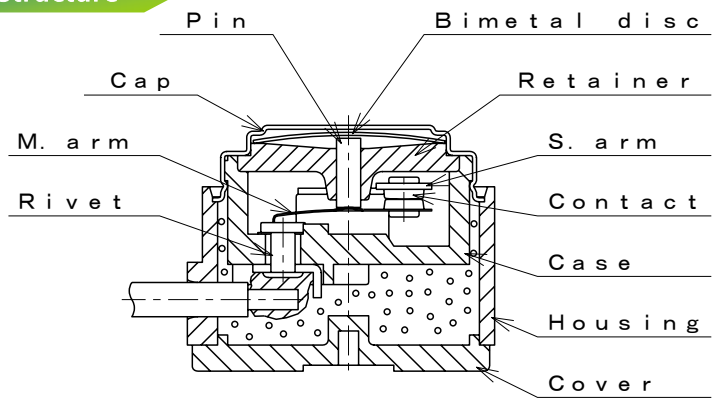
Dimensions



Materials of parts

Part	Material
Cap	Copper Stainless steel
Case	Phenolic resin
Housing	Polycarbonate
Bracket	Stainless steel
Fulling	Polyurethane
Leads	PVC
Contacts	Silver-Nickel alloy

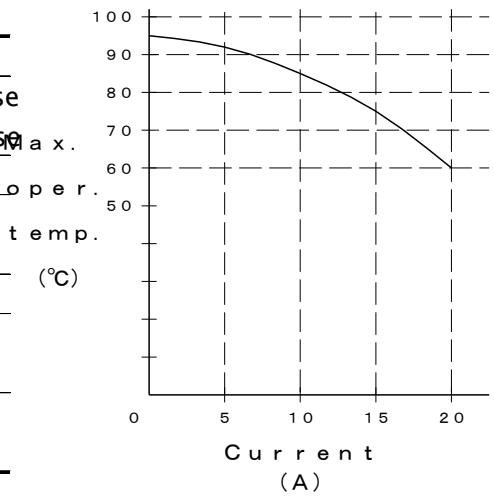
Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	AC125V/20A AC250V/15A
4. Calibration method	Hot & cold air or liquid circulation system
5. Insulation resistance	Not less than 1,000MΩ/DC500V
6. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.
7. Resistance between Lead (at lead is 1m)	Not more than 100mΩ

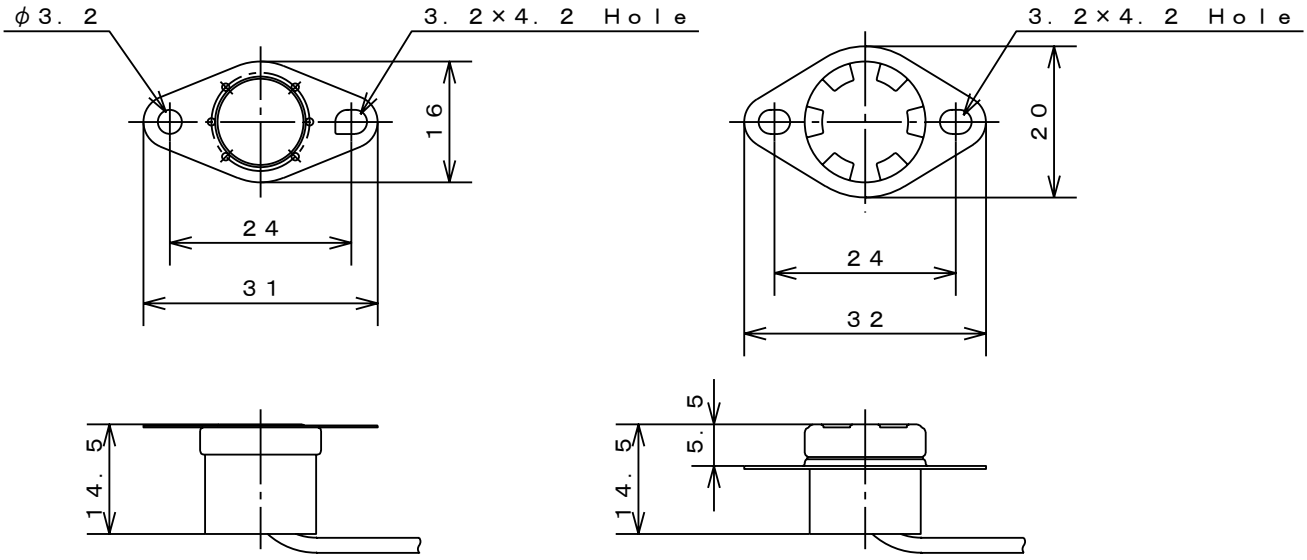
Relation of current & Max. operation temp.



1/2" Disc Type Thermostat
Drip-proof Type Automatic Reset

Type 60EN

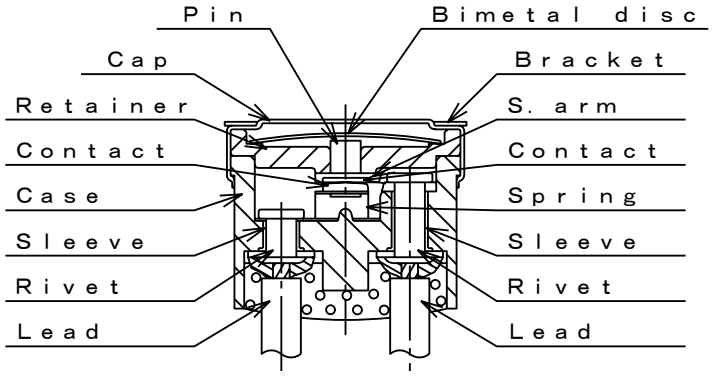
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
Spring	Beryllium Copper alloy
Leads	PVC etc
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	AC125V/15A AC250V/10A (at 1.25mm^2 lead wire) 1,000 cycles
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 80℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

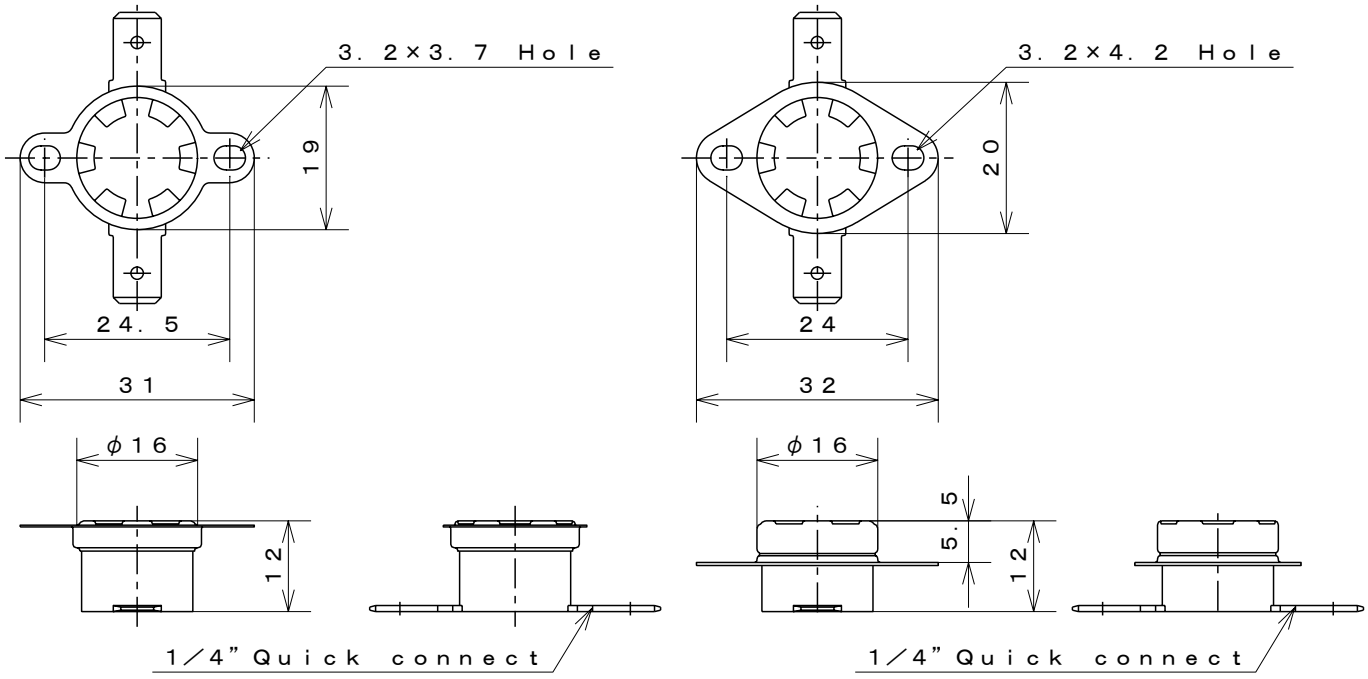
Standard

Single Operation Device
Very High Temp. Type

Type 51N

UL·C-UR·VDE
Recognized

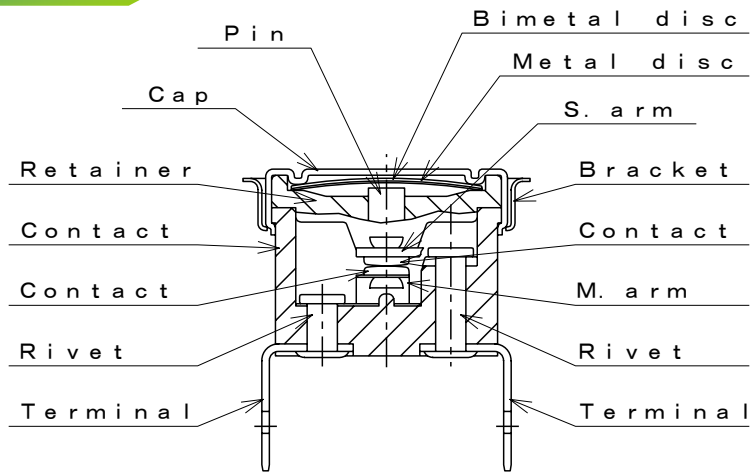
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 270℃ No Reseting
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

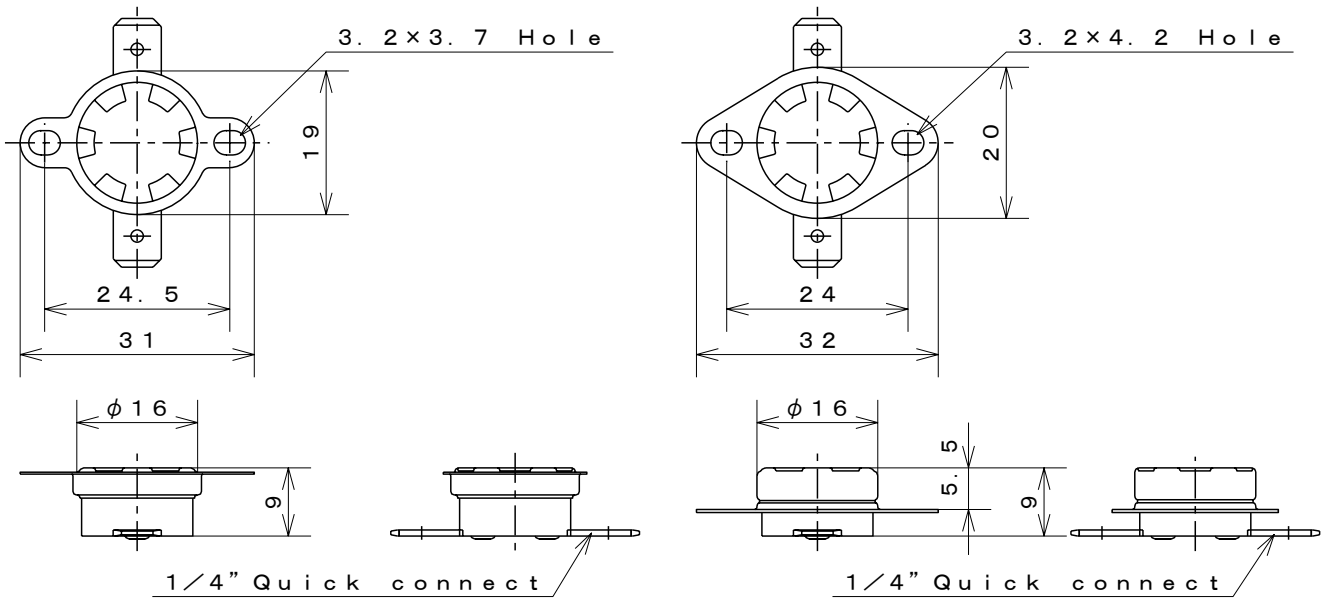
UL 873-1, -2-9 CAN/CSA-E730-1, -2-9 File No. E201152
DIN EN 60730-1, -2-9 VDE Licence No. 116321, 40004144

Single Operation Device
Low Profile

Type 80N

UL·CSA·VDE
Recognized

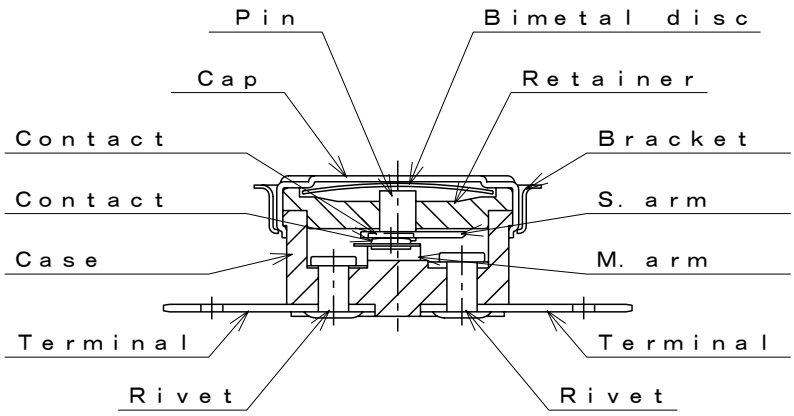
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 200℃ Resetting Temp. less than -35℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

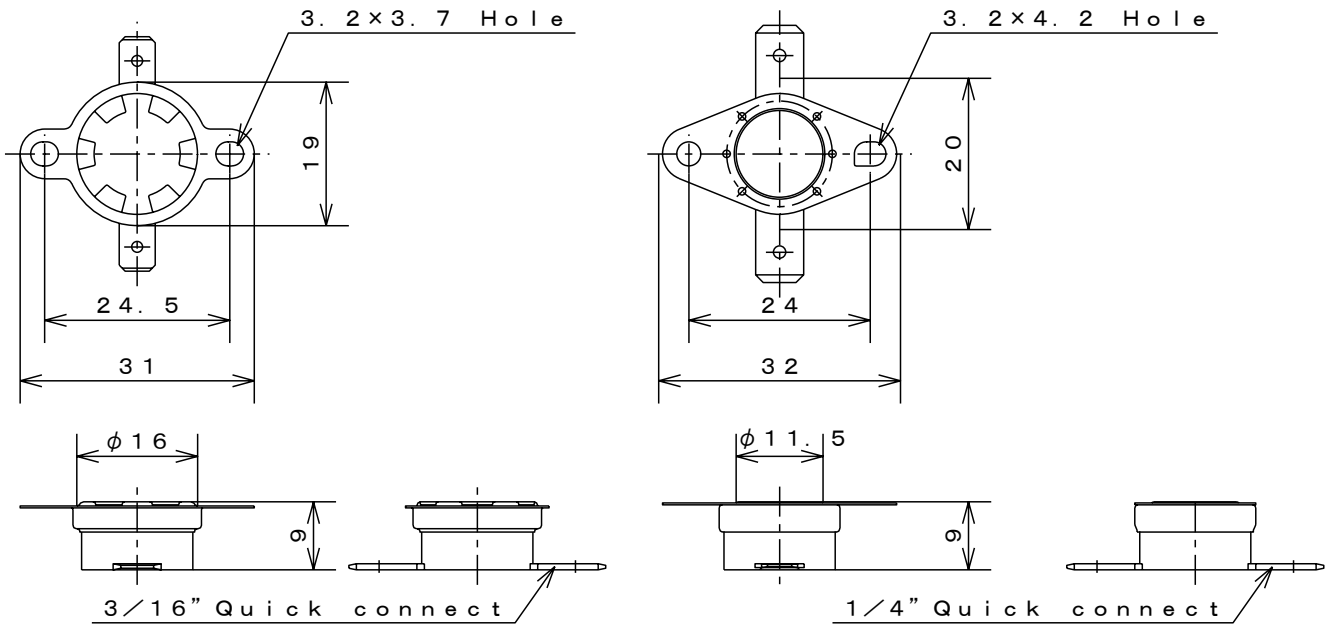
UL 873		UL File	No. E43273
CSA CAN/CSA-E730-1, -2-9		CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9		VDE Licence	No. 40012255, 40004144

Single Operation Device
Low Profile

Type 81ES

UL·CSA·VDE
Recognized

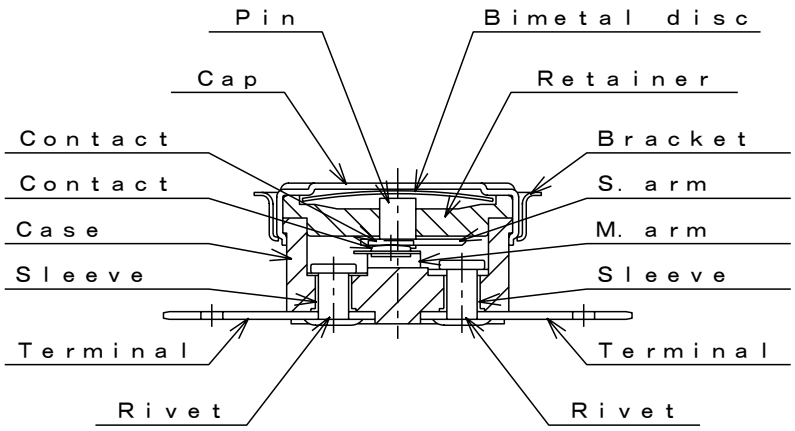
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃ Resetting Temp. less than −35℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

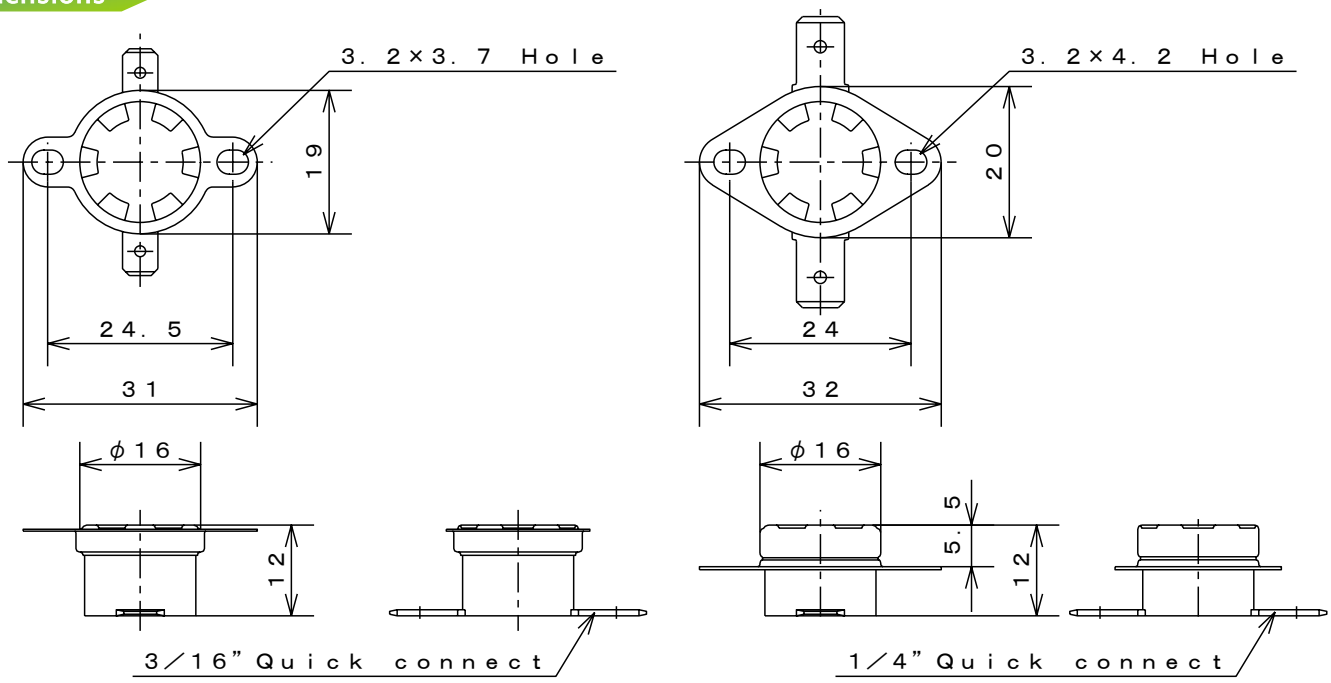
UL 8730-1, -2-9	UL File	No. E201152
CSA CAN/CSA-E730-1, -2-9	CSA Report	No. LR67165, LR67166
DIN EN 60730-1, -2-9	VDE Licence	No. 40012255, 40004144

Single Operation Device
High Temp. Type

Type 82N

UL·CSA·VDE
Recognized

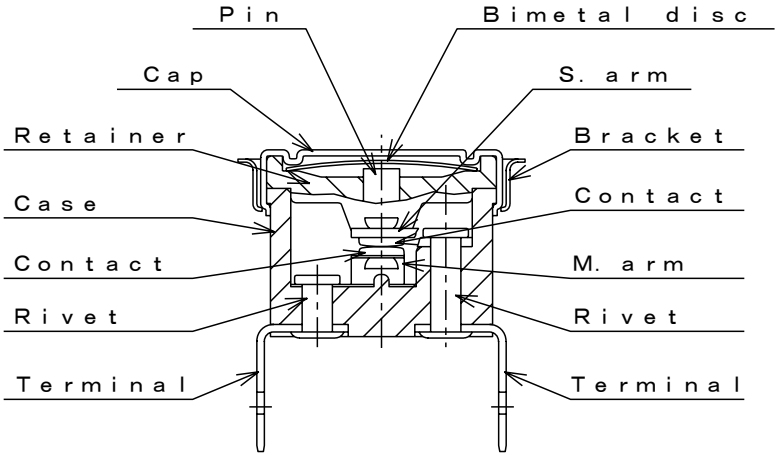
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 270℃ Resetting Temp. less than -35℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

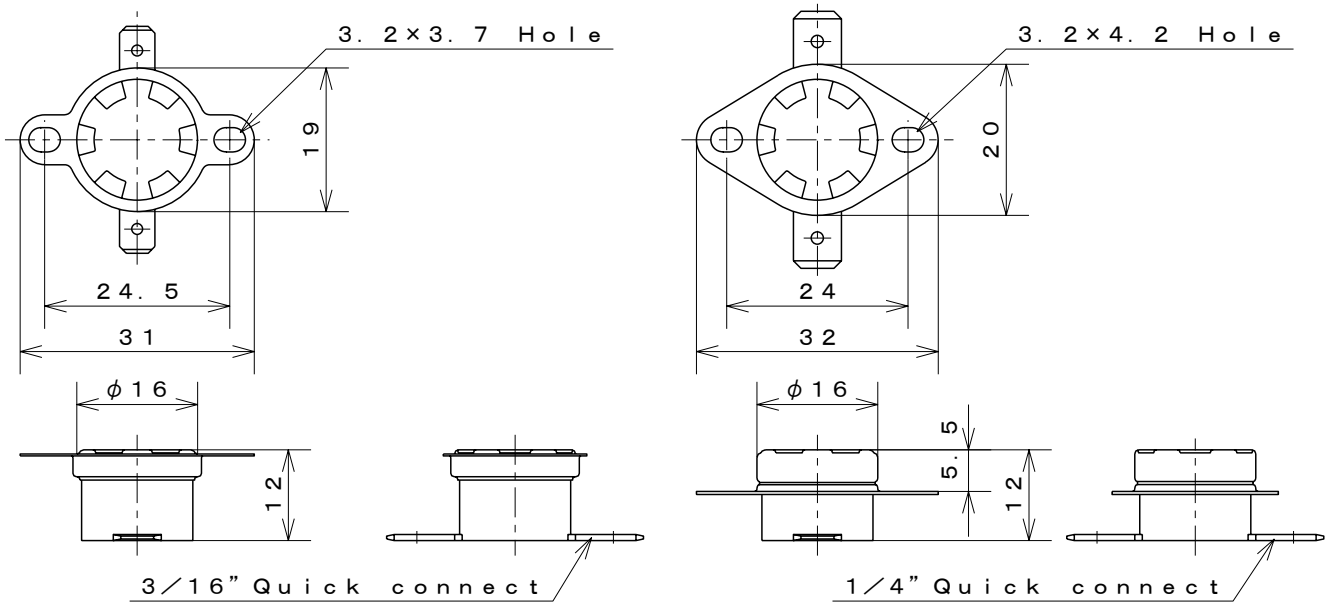
UL 60730-1, -2-9, C-UR — UL File No. E201152
CSA CAN/CSA-E730-1, -2-9 — CSA Report No. LR67165, LR67166
DIN EN 60730-1, -2-9 — VDE Licence No. 40012255, 40004144

Single Operation Device

Type 83EN

UL·CSA·VDE Recognized

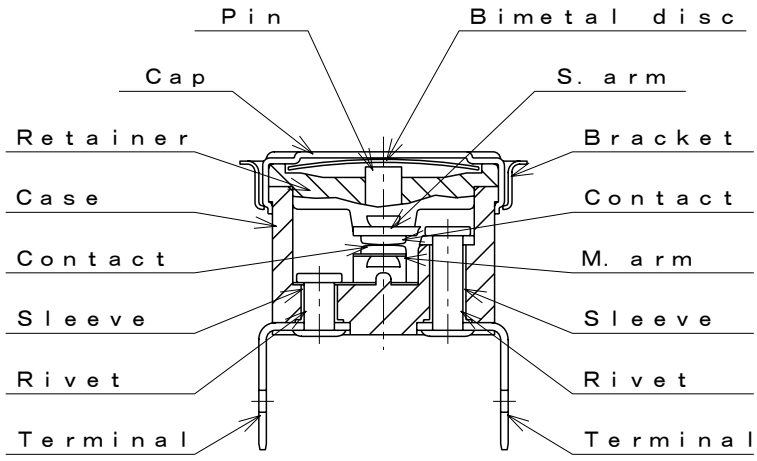
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃ Resetting Temp. less than -35℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

UL 8730-1,-2-9
CSA CAN/CSA-E730-1, -2-9
DIN EN 60730-1, -2-9

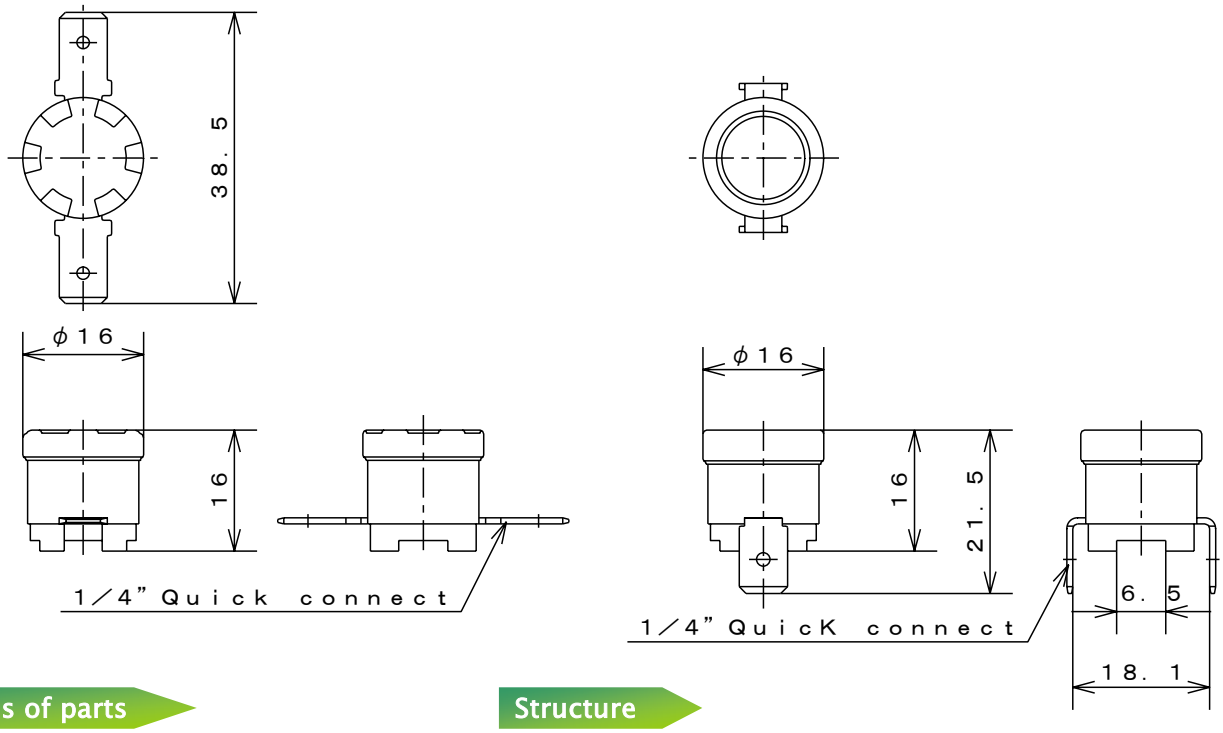
UL File No. E201152
CSA Report No. LR67165, LR67166
VDE Licence No. 40012255, 40004144

Single Operation Device
Very High Temp. Type

Type 87N

UL·CSA·VDE
Recognized

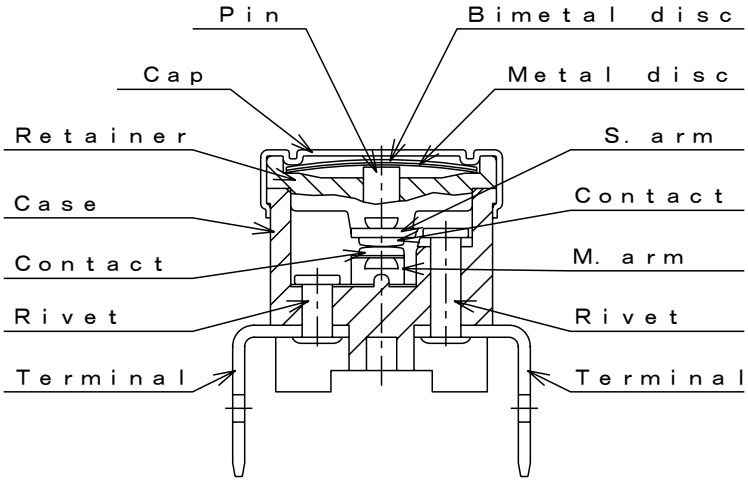
Dimensions



Materials of parts

Part	Material
Cap	Aluminum Copper Stainless steel
Case	Ceramic
M.arm	Beryllium Copper alloy
Terminals	Brass, Steel
Bracket	Stainless steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Single Operation Device
2. Operation	A : Contacts open on temperature rise
3. Electrical rating	AC250V/16A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 270℃ Non Resetting
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

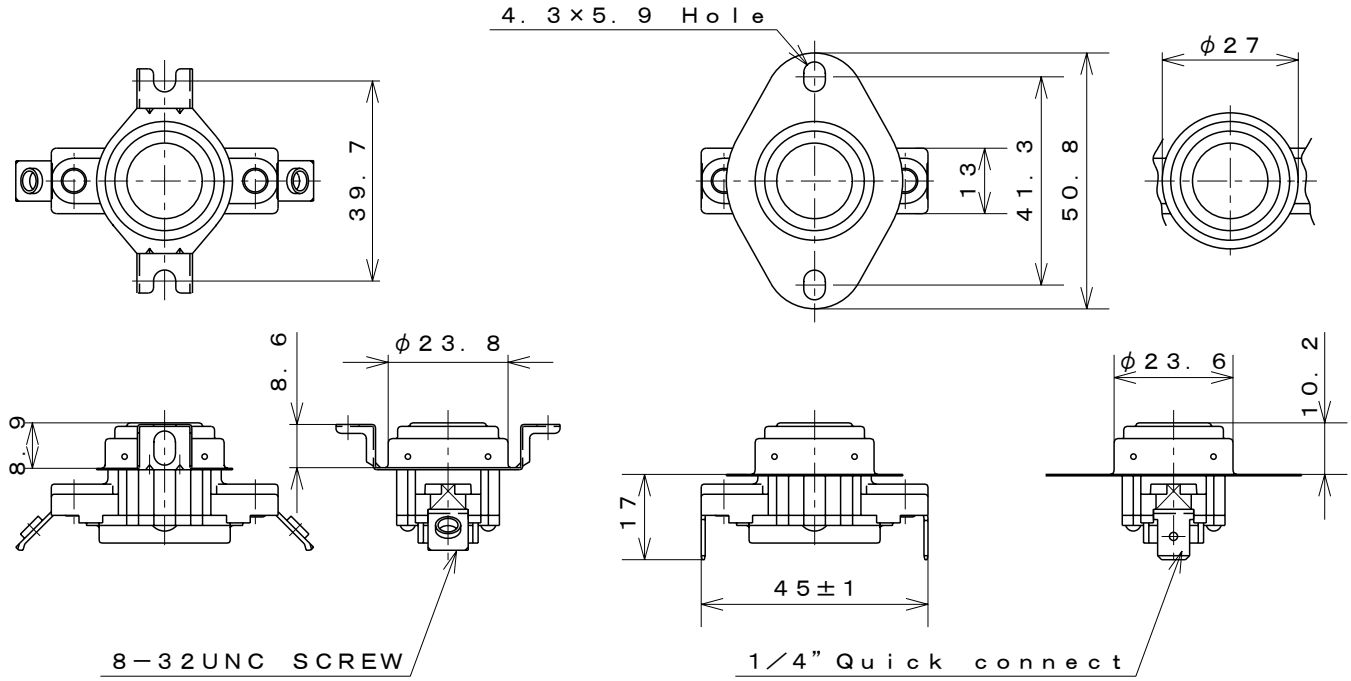
UL 8730-1, -2-9, C-UR
DIN EN 60730-1, -2-9

UL File No. E201152
VDE Licence No. 40012255, 40004144

3/4" Disc Type Thermostat
Automatic Reset

Type 43

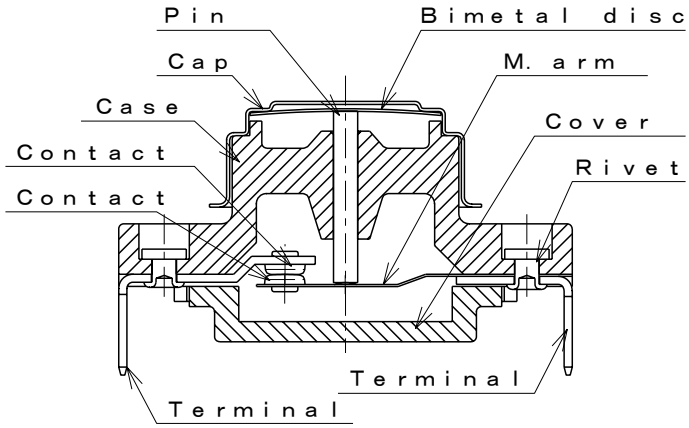
Dimensions



Materials of parts

Part	Material
Cap	Stainless steel
Case, Cover	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Rivets	Steel
Contacts	Silver-Nickel alloy

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	UL, C-UR : AC250V/25A, 45A AC480V/13A VDE : AC250V/25A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC2,000V/2sec. (AC250V) AC3,600V/2sec. (AC480V)

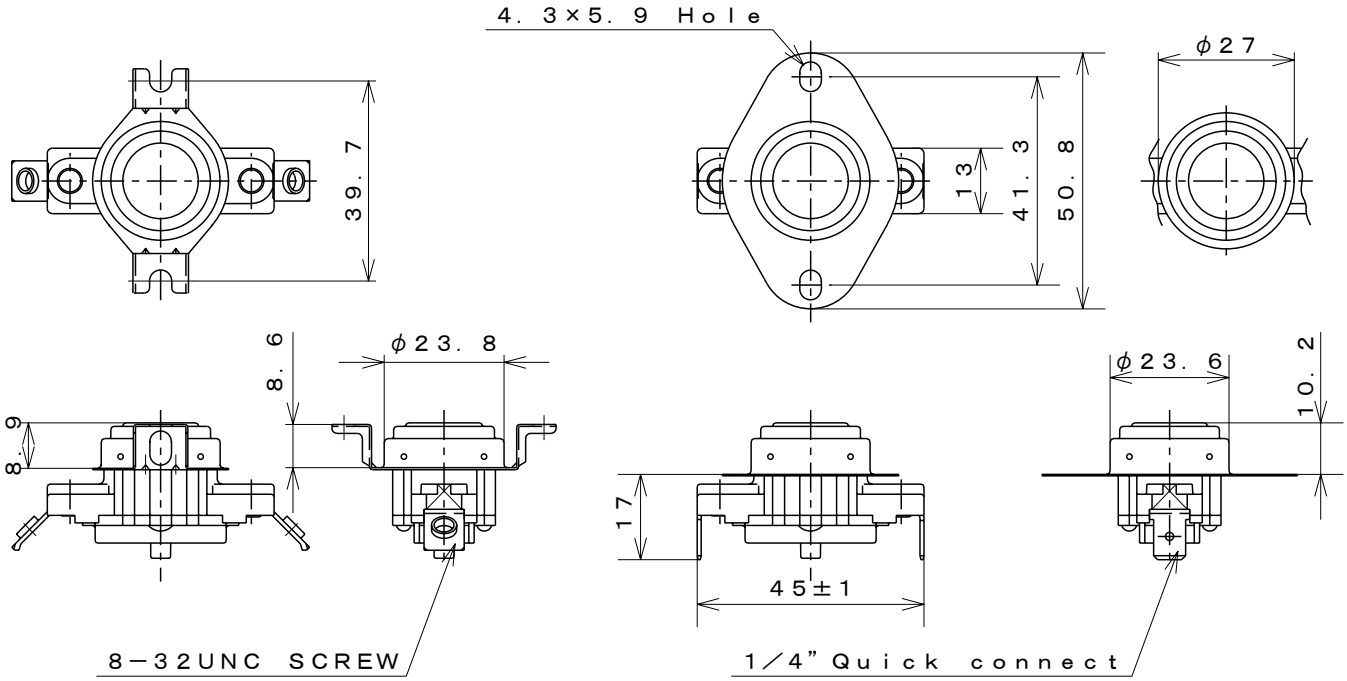
Standard

UL, C-UR 60730-1, -2-9 UL File No. E201152
DIN EN 60730-1, -2-9 VDE Licence No. 40016397

3/4" Disc Type Thermostat
Manual Reset

Type 43M

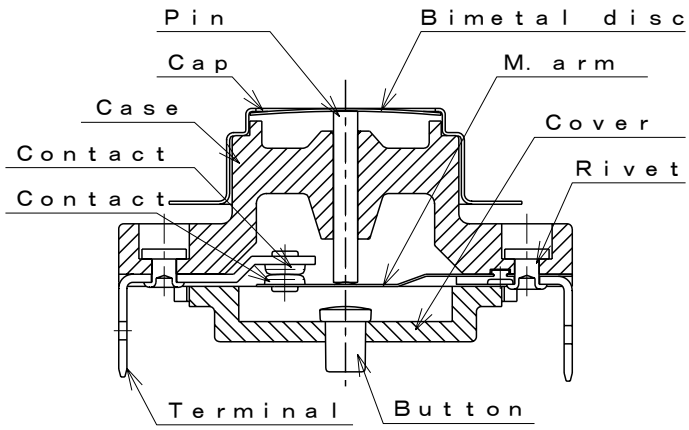
Dimensions



Materials of parts

Part	Material
Cap	Stainless steel
Case, Cover	Phenolic resin
M.arm	Beryllium Copper alloy
Terminals	Brass
Rivets	Steel
Contacts	Silver-Nickel alloy
Button	PPS

Structure



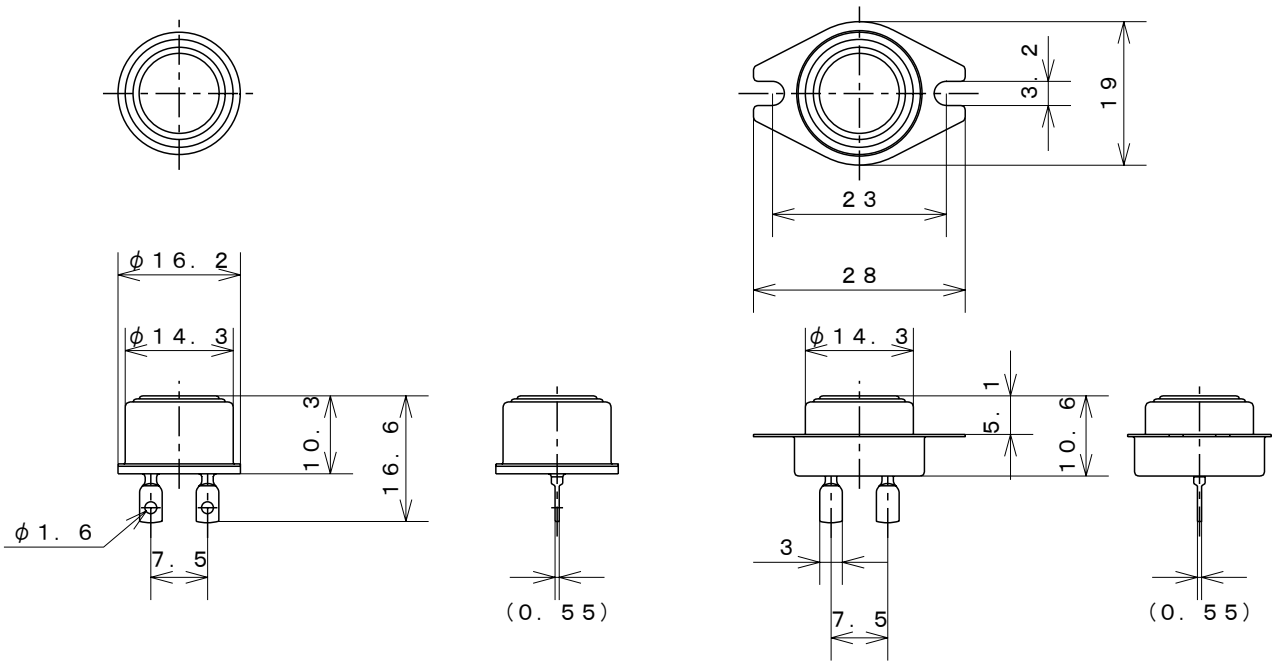
Specification

Item	Specification
1. Basic features	SPST Manual reset
2. Operation	L : Contacts open on temperature rise
3. Electrical rating	AC250V/25A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 150℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC2,000V/2sec.

Harmeticc Type Thermostat

Type 63

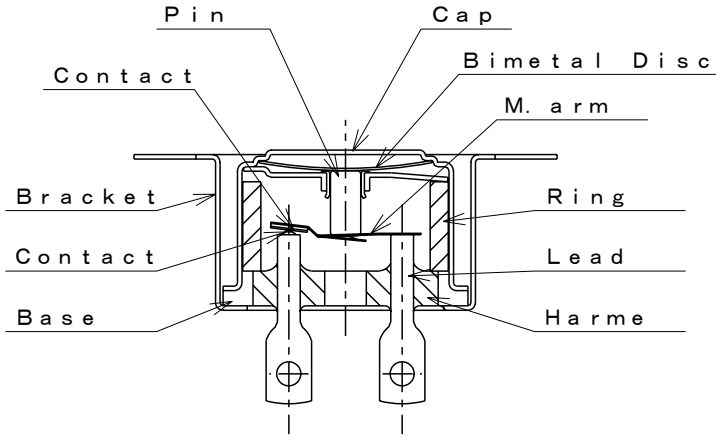
Dimensions



Materials of parts

Part	Material
Cap	Stainless steel
Base	Steel
M.arm	Nickel alloy (63HP) Copper alloy (63RP)
Leads	Steel / Copper
Bracket	Stainless steel

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	DC12V/500mA DC42V/200mA AC250V/200mA
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 200℃ (63HP) ・150℃ (63RP)
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.
8. Resistance between Leads	Not more than 30mΩ(63HP) ・ 10mΩ(63RP)

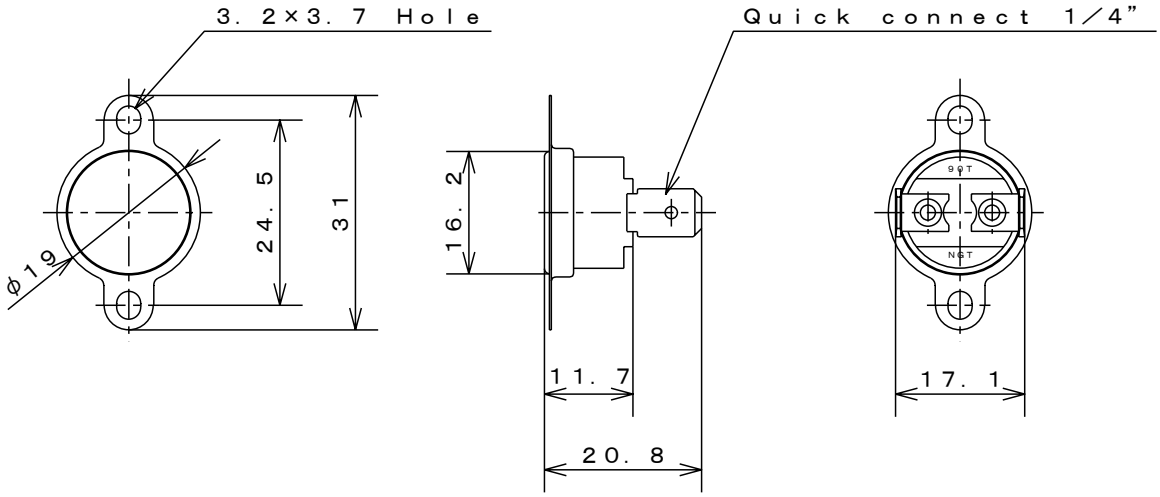
Standard

CMJ (JET) J-151

1/2" Thermistor Sensor

Type 90T

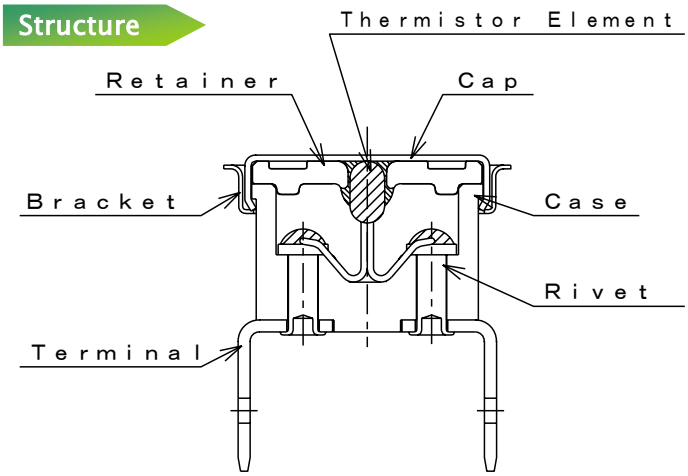
Dimensions



Materials of parts

Part	Material	Type
Sensing-cap	Aluminum	Surface-mounting
Bracket	Stainless steel	
Retainer	Aluminum	
Element	————	Hermetic type
Case	Polyester	
Rivet	Cu, Ni Alloy	
Terminals	Plated Brass	Quick-connect 1/4" 3/16"

Structure



Specification

Item	Specification
Temperature range	0～150℃（We can manage to be able to use it below 0℃ if you like to)
Time-constant (63.2%)	With 20 seconds (surface of the heated plate)
Insulating resistance	Over 1,000MΩ by 500V DC500V megger
Dielectric strength	AC1,200V × one second (leakage current 0.5mA)

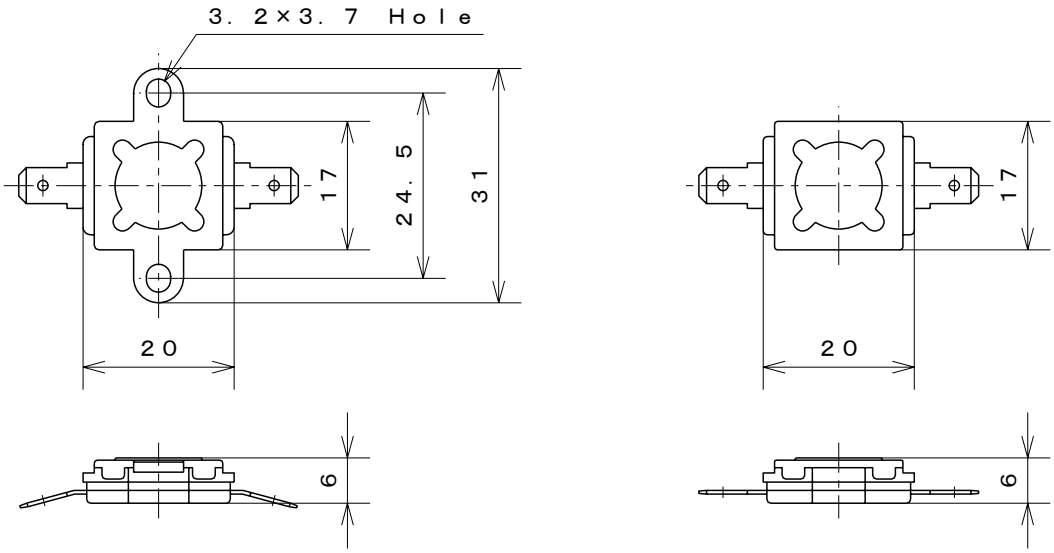
No.	PB-36	PB-41E	PT-43C	PT-51F
Nominal-resistance (at 25)	2.186 kΩ	5.369 kΩ	0.68 kΩ(at 100)	49.12 kΩ
B-value (25-85℃)	3420K±68K	3480K±69K	3950K±2% (0-100℃)	3992K±79K

Above are the standard specifications. Please contact us for further information.

1/2" Disc Type Thermostat
Thin Type

Type BT1

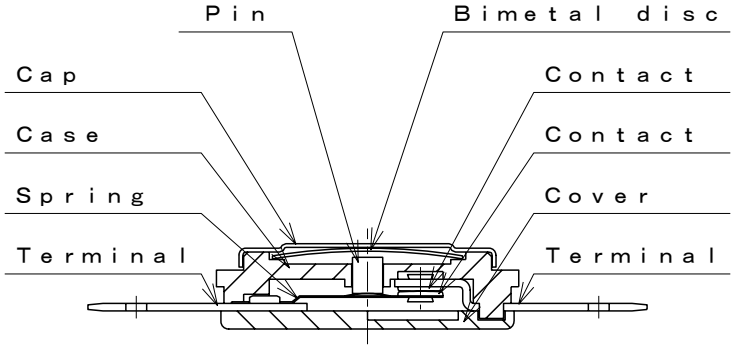
Dimensions



Materials of parts

Part	Material
Cap	Copper
Case, Cover	Phenolic resin
Spring	Beryllium Copper alloy
Contacts	Silver (BT1C) Silver-Nickel alloy (BT1,BT1N)

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	A : Contacts open on temperature rise B : Contacts close on temperature rise
3. Electrical rating	BT1 : AC250V/6A BT1C : AC250V/6A BT1N : AC250V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 120℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

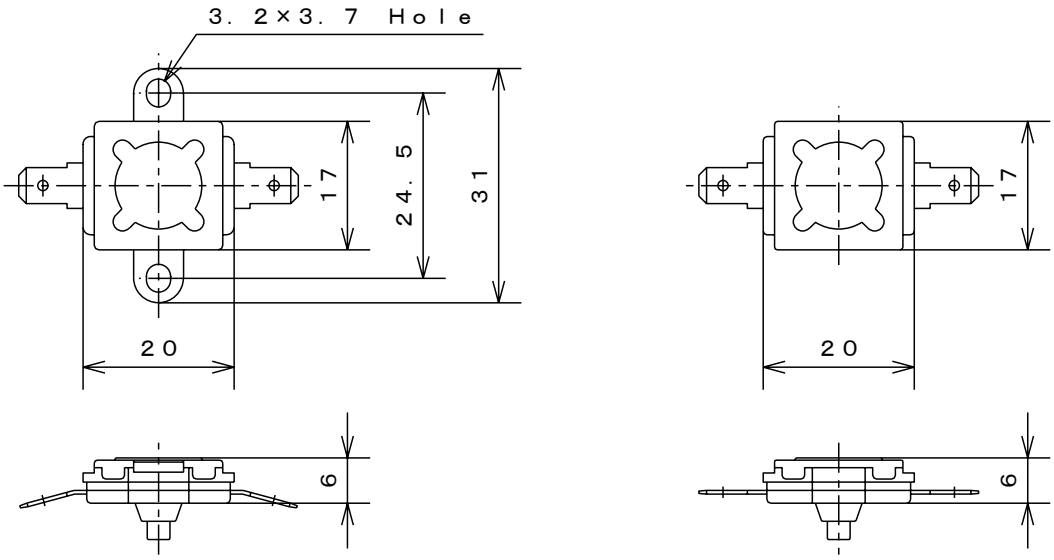
Standard

MITI (JET) BT1 :J-50
BT1N:J-51

1/2" Disc Type Thermostat
Thin Type　Manual Reset

Type BT2

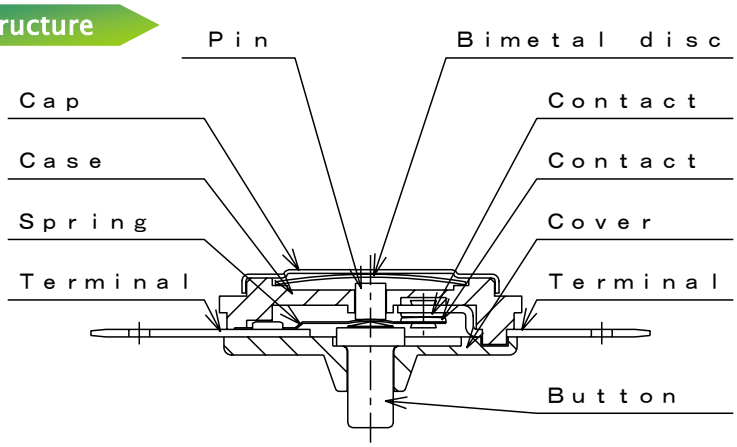
Dimensions



Materials of parts

Part	Material
Cap	Copper
Case, Cover	Phenolic resin
Spring	Beryllium Copper alloy
Contacts	Silver (BT2C) Silver-Nickel alloy (BT2,BT2N)

Structure



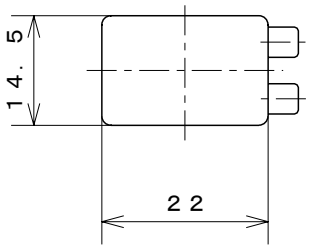
Specification

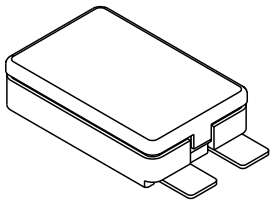
Item	Specification
1. Basic features	SPST Manual reset
2. Operation	A : Contacts open on temperature rise Not automatic reset
3. Electrical rating	BT2 : AC125V/6A　BT2C : AC125V/6A BT2N : AC125V/10A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 120℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

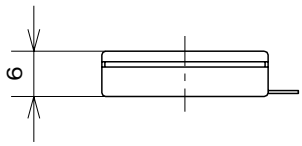
Thin Box Type

Type MH3

Dimensions



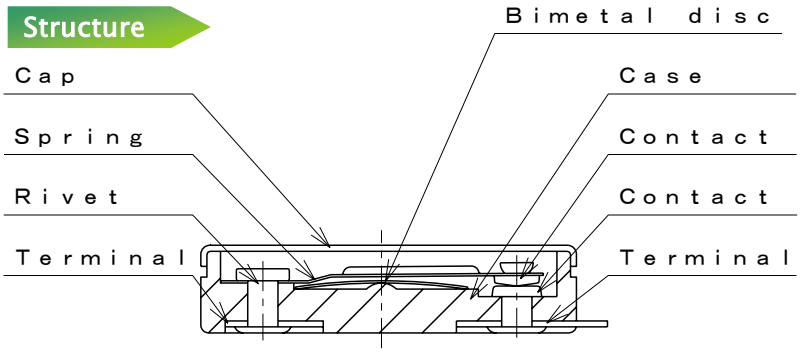




Materials of parts

Part	Material
Cap	Aluminum
Case	Phenolic resin
Spring	Beryllium Copper alloy
Rivet	Copper
Contacts	Silver

Structure



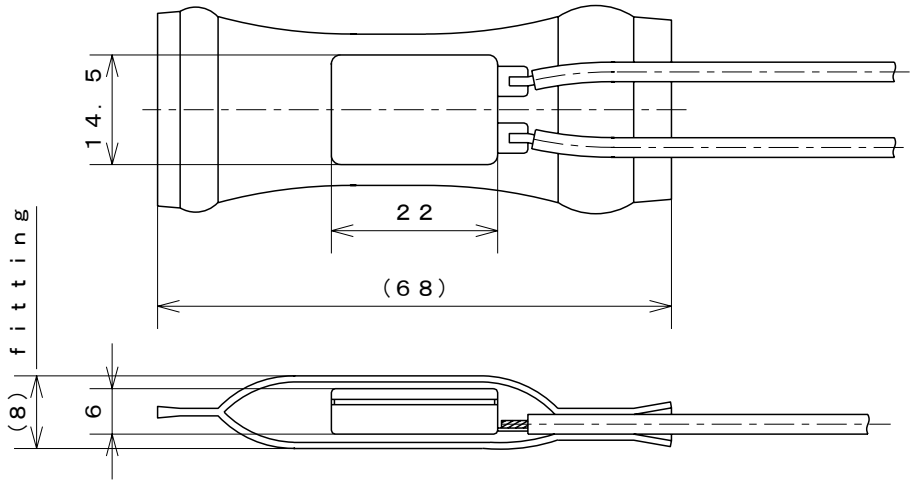
Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	AC125V/6A AC250V/3A (Separately, the insulation protection is necessary) DC12V/5A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 70℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V

Sealed by PVC tube
Water-proof Type

Type MH3U

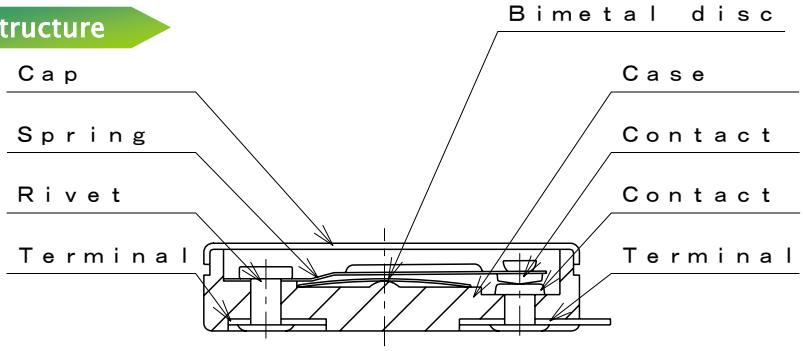
Dimensions



Materials of parts

Part	Material
Cap	Aluminum
Case	Phenolic resin
Spring	Beryllium Copper alloy
Leads	PVC AWG No.20
Contacts	Silver

Structure



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	AC125V/6A AC250V/3A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 70℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

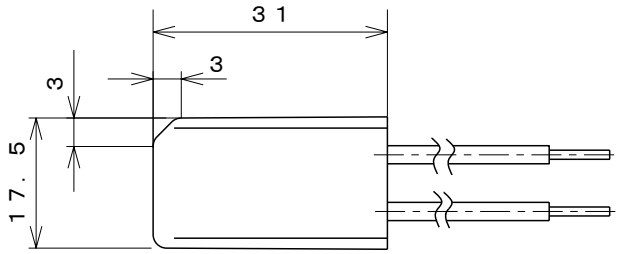
Standard

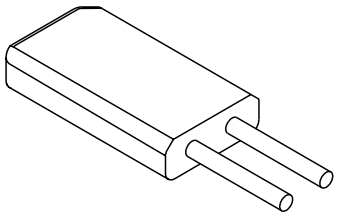
UL 873	UL File	No. E43273	AC125V/3A AC250V/2A
CSA C22.2 No. 24	CSA Report	No. LR67165, LR67166	AC125V/3A AC250V/2A

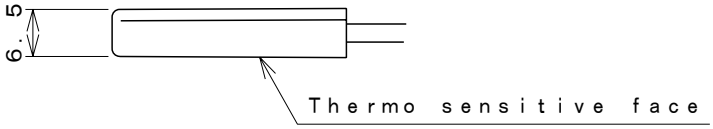
Thin Box
Water Proof Type

NEW
Type **MH4**

Dimensions



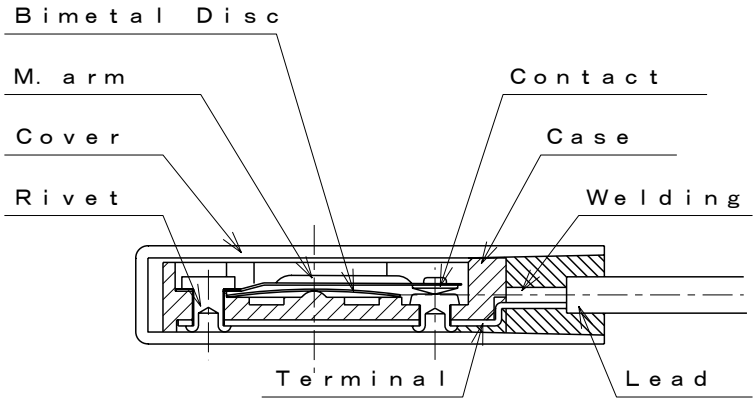




Materials of parts

Part	Material
Cap	PBT
Case	Phenolic resin
Spring	Beryllium Copper alloy
Rivet	Copper
Contacts	Silver
Leads	PVC

Structure



Specification

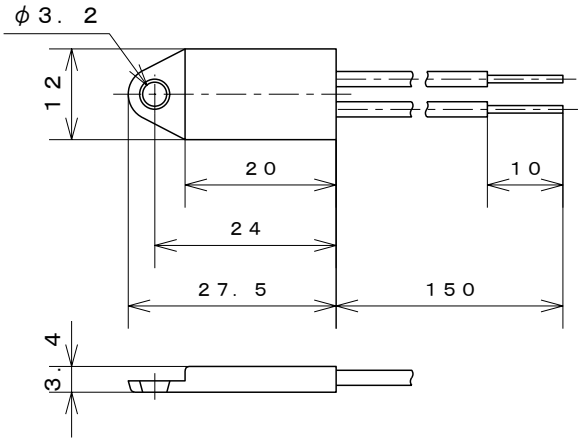
Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	DC13.5V/7A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 70℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V

Small & Thin

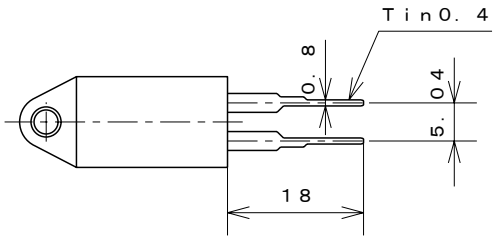
Drip-proof Type Automatic Reset
PCB on board Type

Type SS1

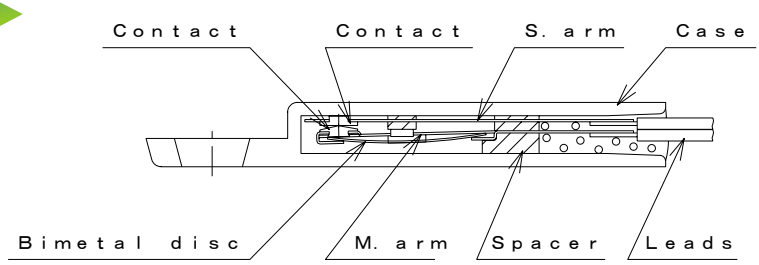
Dimensions



PCB on board type



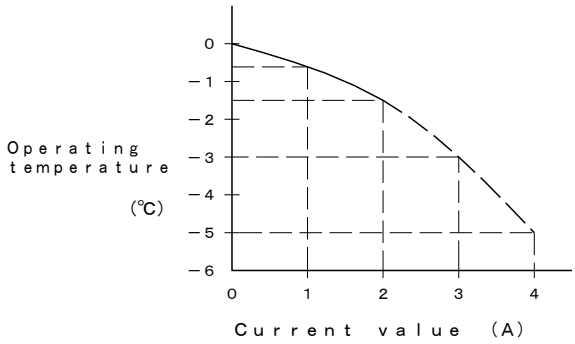
Structure



Materials of parts

Part	Material
Case	Polybutylene terephthalate
M. arm	Beryllium copper
Leads	PVC 0.3mm^2, tin plated Brass
Contacts	Silver-Nickel alloy

Drift of operating temperature by current value when contact close



Specification

Item	Specification
1. Basic features	SPST Automatic reset
2. Operation	L : Contacts open on temperature rise F : Contacts close on temperature rise
3. Electrical rating	AC250V/3A
4. Calibration method	Hot & cold air circulation system
5. Temperature rating	Operating temperature Max. 105℃
6. Insulation resistance	Not less than 1,000MΩ/DC500V
7. Dielectric strength	Not less than AC1,500V/1min. or AC1,800V/1sec.

Standard

UL 60730, C-UR UL File No. E201152 AC250V/3A