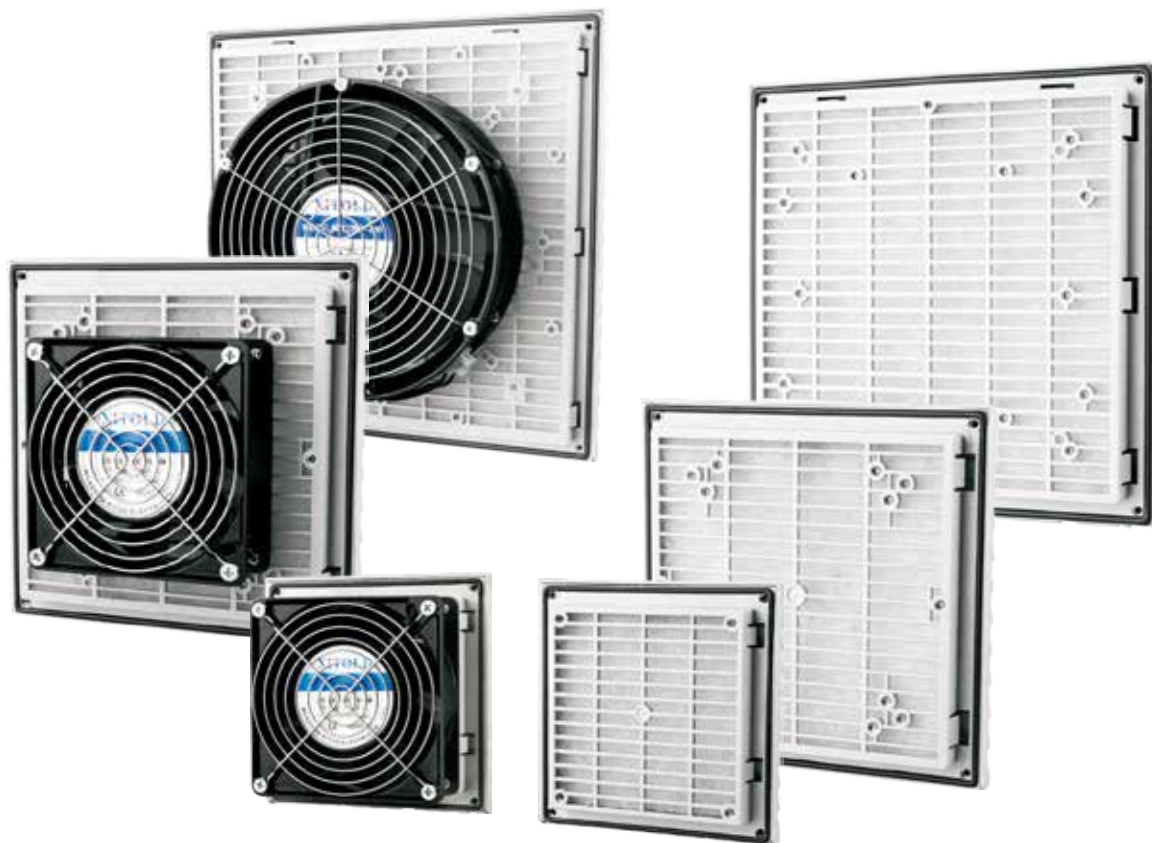




Innovation makes work more efficient
Good Quality And Nice Service Create Your Happiness



TB99 SERIES FAN AND FILTER



Product Features

Snap-pull swivel open type makes filter shuttle open and filter pad replacement easier and faster without any tool. The filter back set with multi-hole nuts in order customers can choose different sizes of fans for combination. More internal mounting holes are optional, which are all stainless steel nuts for effectively prevent rust.



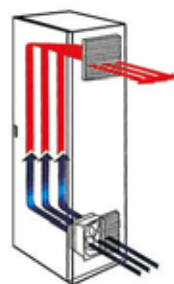
LJK6622

FAN AND FILTER

Filter material: ABS

Flame retardant grade: UL94-V0

IP grade: IP54



Temperature Control



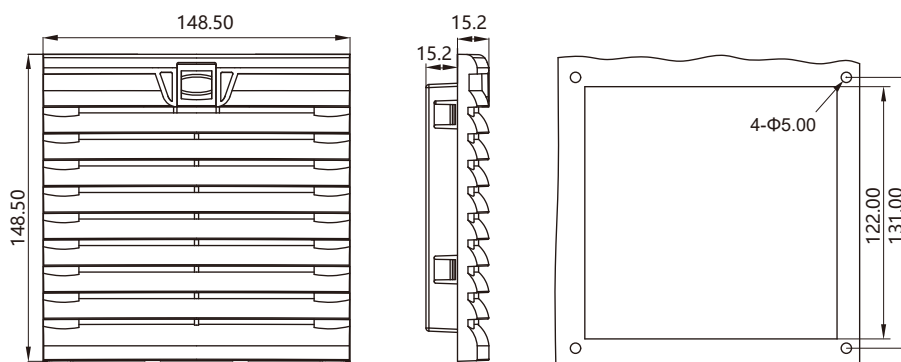
LJK6622.230



LJK6622.300

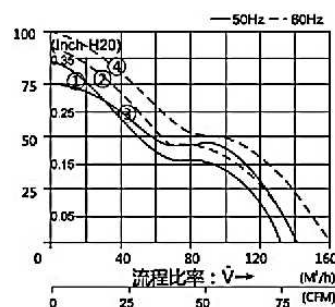


Size



Diagram

TB9903....



Parameters

Type 产品型号	Fan Model 风扇型号	Rated Voltage 额定电压 V	Speed 电压范围 V	Frequency 周波数 Hz	current 电流 (A)	Power 功率 (W)	Max Air Flow 最大风量 m³/h	Static Pressure 最大静压 (Pa)	Noise 噪音 (dB)	Curve 曲线	external dimensions 外形尺寸 (mm)
LJK6622PB115	CC2S120PB00	115 AC	75...125	50	0.24	18	92	32	31	①	148.5x148.5x68.5
				60	0.20	15	107	39	34	①	148.5x148.5x68.5
LJK6622PB230	CL2S120PB00	230 AC	150...250	50	0.12	19	92	32	31	①	148.5x148.5x68.5
				60	0.10	14	107	39	34	①	148.5x148.5x68.5
LJK6622PB12	CF2S120PB00	12 DC	6...13.8		0.55	6.60	113	38	35	②	148.5x148.5x68.5
LJK6622PB24	CD2S120PB00	24 DC	10...27.5		0.31	7.44	113	38	35	②	148.5x148.5x68.5

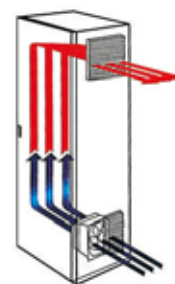
LJK6623

FAN AND FILTER

Filter material: ABS

Flame retardant grade: UL94-V0

IP grade: IP54



Temperature Control



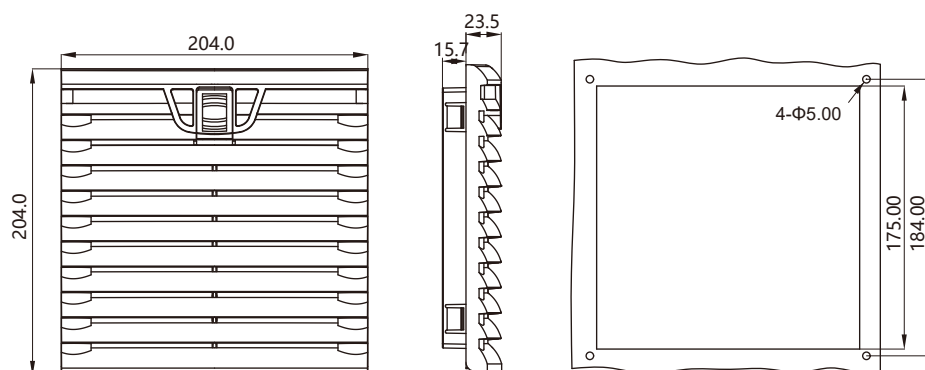
LJK6623.230



LJK6623.300

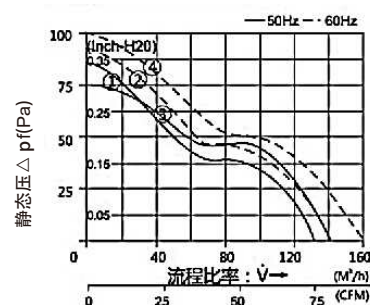


Size



Diagram

TB9904....



Parameters

Type 产品型号	Fan Model 风扇型号	Rated Voltage 额定电压 V	Speed 电压范围 V	Frequency 周波数 Hz	current 电流 (A)	Power 功率 (W) $\pm 10\%$ -20%	Max Air Flow 最大风量 m³/h	Static Pressure 最大静压 (Pa)	Noise 噪音 (dB)	Curve 曲线	external dimensions 外形尺寸 (mm)
LJK6623/120.115	CC2S120PB00	115 AC	75...125	50	0.24	18	102	35	32	①	204x204x105
				60	0.20	15	119	44	35		
LJK6623/120.230	CL2S120PB00	230 AC	150...250	50	0.12	19	102	35	32	①	204x204x105
				60	0.10	14	119	44	35		
LJK6623/150.115	CC2S150PB00	115 AC	75...125	50	0.48	41	280	120	48	①	204x204x105
				60	0.46	38	320	135	50		
LJK6623/150.230	CL2S150PB00	230 AC	150...250	50	0.26	41	280	120	48	①	204x204x105
				60	0.24	38	320	135	50		

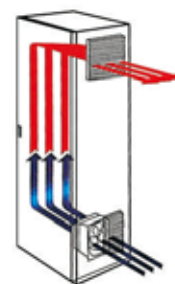
LJK6625

FAN AND FILTER

Filter material: ABS

Flame retardant grade: UL94-V0

IP grade: IP54



Temperature Control



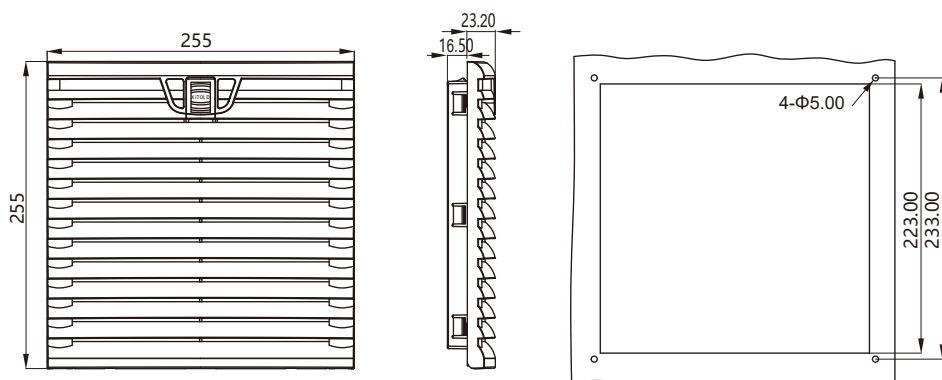
LJK6625.230



LJK6625.300

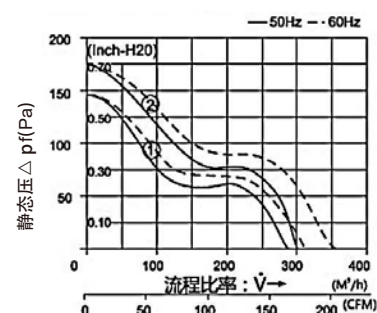


Size



Diagram

TB9905....



Parameters

Type 产品型号	Fan Model 风扇型号	Rated Voltage 额定电压 V	Speed 电压范围 V	Frequency 周波数 Hz	current 电流 (A)	Power 功率 (W) +10% -20%	Max Air Flow 最大风量 m³/h	Static Pressure 最大静压 (Pa)	Noise 噪音 (dB)	Curve 曲线	external dimensions 外形尺寸 (mm)
LJK6625/150.115	CC2S150PB00	115 AC	75...125	50	0.48	41	280	120	48	①	255x255x117
LJK6625/150.230	CL2S150PB00	230 AC	150...250	50	0.26	41	280	120	48	①	255x255x117
LJK6625/150.230	CL2S150PB00	230 AC	150...250	60	0.24	38	320	135	50	①	255x255x117
LJK6625/160.115	CC2E160SB00	115 AC	75...125	50	0.52	37	224	60	46	①	255x255x117
LJK6625/160.115	CC2E160SB00	115 AC	75...125	60	0.43	34	266	85	50	①	255x255x117
LJK6625/160.230	CL2E160SB00	230 AC	150...250	50	0.25	37	224	60	46	①	255x255x117
LJK6625/160.230	CL2E160SB00	230 AC	150...250	60	0.20	33	266	85	50	①	255x255x117
LJK6625/220.115	CC2E220SB00	115 AC	75...125	50	0.60	65	637	78	55	①	255x255x117
LJK6625/220.115	CC2E220SB00	115 AC	75...125	60	0.64	75	707	90	57	①	255x255x117
LJK6626/220.230	CL2E220SB00	230 AC	150...250	50	0.30	65	637	78	55	①	255x255x117
LJK6626/220.230	CL2E220SB00	230 AC	150...250	60	0.34	77	707	90	57	①	255x255x117

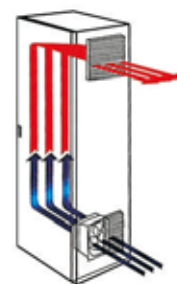
LJK6626

FAN AND FILTER

Filter material: ABS

Flame retardant grade: UL94-V0

IP grade: IP54



Temperature Control



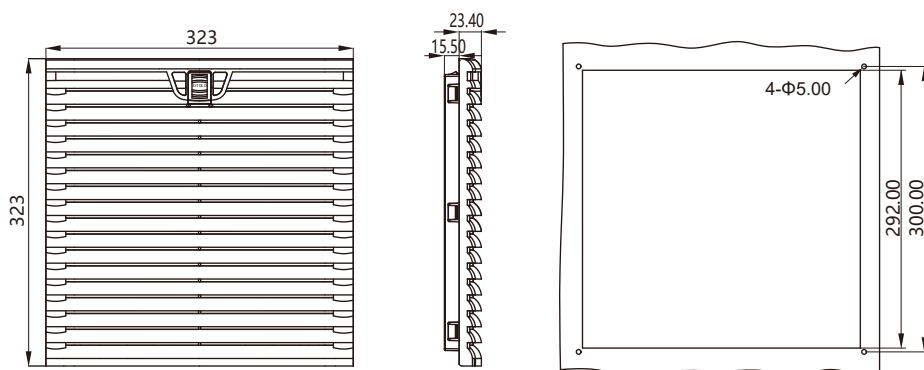
LJK6626.230



LJK6626.300

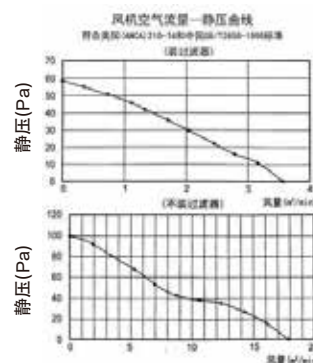


Size



Diagram

TB9906....



Parameters

Type 产品型号	Fan Model 风扇型号	Rated Voltage 额定电压 V	Speed 电压范围 V	Frequency 周波数 Hz	current 电流 (A)	Power 功率 (W) +10% -20%	Max Air Flow 最大风量 m³/h	Static Pressure 最大静压 (Pa)	Noise 噪音 (dB)	Curve 曲线	external dimensions 外形尺寸 (mm)
LJK6625/160.115	CC2E160SB00	115 AC	75...125	50	0.52	37	224	60	46	①	255x255x121
				60	0.43	34	266	85	50	①	255x255x121
LJK6625/160.230	CL2E160SB00	230 AC	150...250	50	0.25	37	224	60	46	①	255x255x121
				60	0.20	33	266	85	50	①	255x255x121
LJK6625/220.115	CC2E160SB00	115 AC	75...125	50	0.60	65	637	78	55	①	255x255x121
				60	0.64	75	707	90	57	①	255x255x121
LJK6626/220.230	CL2E160SB00	230 AC	150...250	50	0.30	65	637	78	55	①	255x255x121
				60	0.34	77	707	90	57	①	255x255x121
LJK6625/220.115	CC2E160SB00	115 AC	75...125	50	0.60	65	637	78	55	①	255x255x121
				60	0.64	75	707	90	57	①	255x255x121
LJK6626/220.230	CL2E160SB00	230 AC	150...250	50	0.30	65	637	78	55	①	255x255x121
				60	0.34	77	707	90	57	①	255x255x121

F2E190-230.DP

Cabinet top exhaust fan

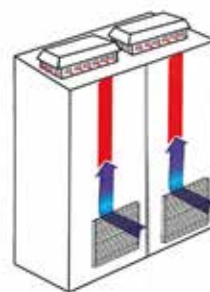
Internal:

The premise of using the top exhaust fan is that the ambient temperature should be lower than the temperature required in the cabinet.

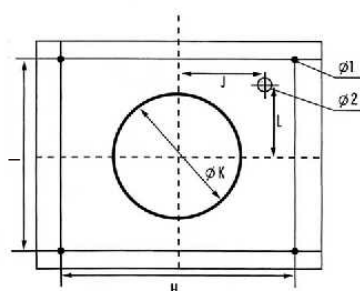
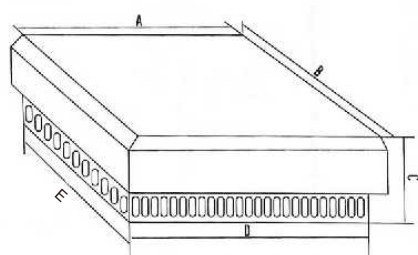
Function:

The high-power centrifugal top row inner machine can discharge high heat load with maximum efficiency. The centrifugal fan can avoid the vortex formed by the ordinary shielded magnetic pole fan. It can also reduce the noise caused by air friction. The air inlet adopts TK series ventilation canopy, It can prevent moisture and dust from entering.

The centrifugal top exhaust fan is different from others, with beautiful appearance, good function, more reasonable structure, and does not occupy internal space. Through its unique design, it can best meet the requirements of today's market.

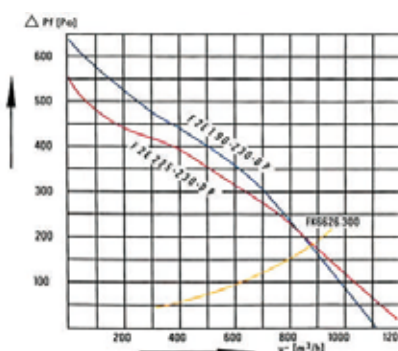


Size



Hole drawing

Diagram



Model	A/B	C	D/E	H/I	J	ΦK	Φ1	Φ2	L
F2E190-230-DP	270	130	267	227	98	195	8	15	98
F2E220-230-DP	270	130	267	227	98	195	8	15	98
F2E225-230-DP	270	130	267	227	98	195	8	15	98

Model	F2E 190-230-DP		F2E 220-230-DP		F2E 225-230-DP	
colour	RAL7035	RAL7032	RAL7035	RAL7032	RAL7035	RAL7032
Material code	1019001	1019002	1019003	1019004	1019005	1019006
Motor model	M2E09201-AF		M2E09202-AF		M2E09203-AF	
Rated working voltage (V/Hz)	230/50/60		230/50/60		230/50/60	
Air flow, free blowing	570/620m³/h		860/900m³/h		1200/1340m³/h	
Air flow and outlet filter	1xTK3326.300 456/496m³/h		1xTK3326.300 688/540m³/h		1xTK3326.300 960/1072m³/h	
Axial fan			Capacitor electromotion			
Rated current (A)	0.26/0.34		0.38/0.40		0.60/0.88	
Power (W)	58/75		85/90		135/200	
Noise level (dB)	62/64		73/74		69/71	
Operating temperature range	-10°Cto +55°C					

F2E190-230.DSP

Cabinet top exhaust fan

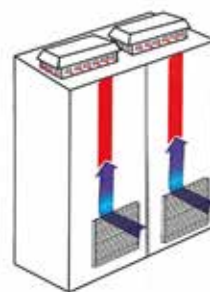
Internal:

The premise of using the top exhaust fan is that the ambient temperature should be lower than the temperature required in the cabinet.

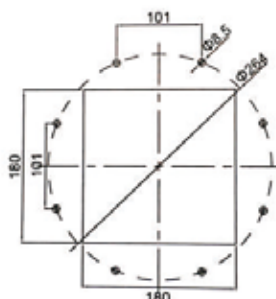
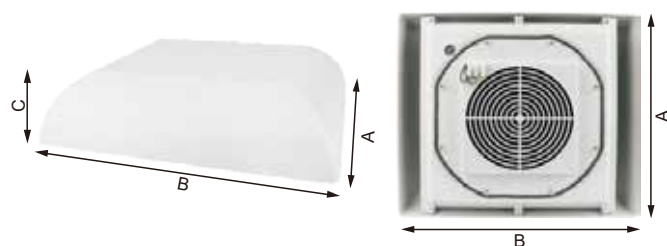
Function:

The high-power centrifugal top row inner machine can discharge high heat load with maximum efficiency. The centrifugal fan can avoid the vortex formed by the ordinary shielded magnetic pole fan. It can also reduce the noise caused by air friction. The air inlet adopts TK series ventilation canopy, It can prevent moisture and dust from entering.

The centrifugal top exhaust fan is different from others, with beautiful appearance, good function, more reasonable structure, and does not occupy internal space. Through its unique design, it can best meet the requirements of today's market.

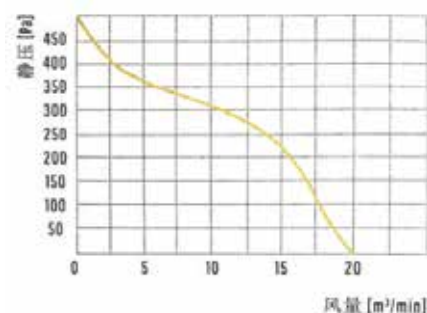


Size



Hole drawing

Diagram



Model	A	B	C	G
F2E190-230-DSP	400	350	103	Φ7
F2E220-230-DSP	400	350	103	Φ7
F2E225-230-DSP	400	350	103	Φ7

Model	F2E190-230-DSP	F2E220-230-DSP	F2E225-230-DSP
colour	RAL7035	RAL7035	RAL7035
Material code	1019007	1019008	1019009
Motor model	M2E09201-AF	M2E09202-AF	M2E09203-AF
Rated working voltage (V/Hz)	230/50/60	230/50/60	230/50/60
Air flow, free blowing	570/620m³/h	860/900m³/h	1200/1340m³/h
Air flow and outlet filter	1xTK3326.300 456/496m³/h	1xTK3326.300 688/540m³/h	1xTK3326.300 960/1072m³/h
Axial fan		Capacitor electromotion	
Rated current (A)	0.26/0.34	0.38/0.40	0.60/0.88
Power (W)	58/75	85/90	135/200
Noise level (dB)	62/64	73/74	69/71
Operating temperature range	-10°C to +55°C		

F2E190-230.DGP

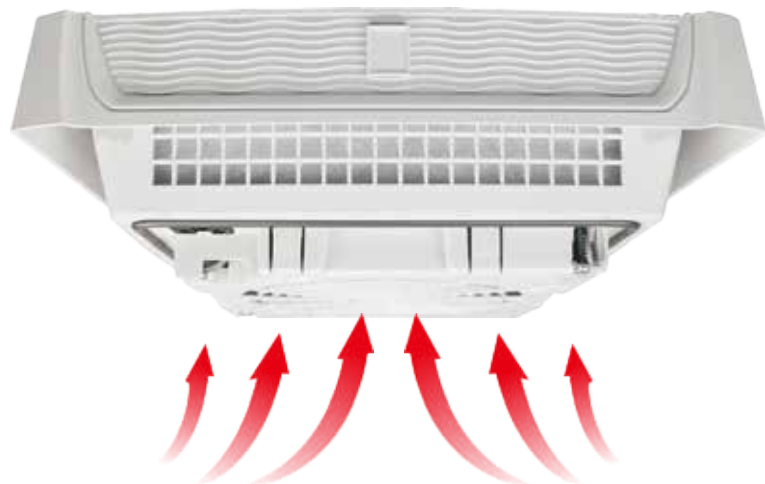
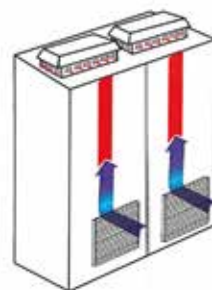
Cabinet top exhaust fan

IP level:

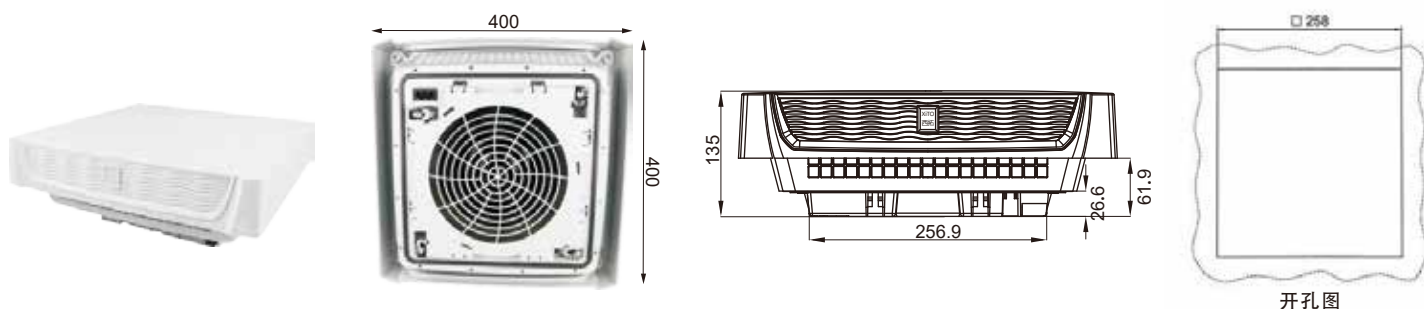
IP22, without filter pad

IP55, with filter pad

The newly designed buckle can lock the fan from the inside of the machine, and the fan can be electrically connected through the standard plug, which is easy to repair, and the protection grade of the filter cotton can be changed quickly, which conforms to IEC60529 standard.



Size



Model	F2E190-230-DGP		F2E220-230-D GP		F2E225-1 15-DGP		F2E225-230-D GP		F2E225-380-D GP	
colour	RAL7035	RAL7032	RAL7035	RAL7032	RAL7035	RAL7032	RAL7035	RAL7032	RAL7035	RAL7035
Material code	1019010	1019011	1019012	1019013	1019014	1019015	1019016	1019017	1019018	1019019
Rated working voltage (v/hz)	230/50/60		230/50/60		115/50/60		230/50/60		380/50/60	
Voltage range (V)	200-240		200-240		100-120		200-240		350-400	
Output air volume and free blowing IP22	570/620m³/h		860/900m³/h		1200/1340m³/h					
Output air volume and free blowing IP22	430/465m³/h		675/702m³/h		870/960m³/h					
Air flow and outlet filter	1xTK3326.300 456/496m³/h		1xTK3326.300 688/540m³/h		1xTK3326.300 960/1072m³/h					
Axial fan	Centrifugal electric capacitor									
Rated current (a)	0.28/0.31		0.46/0.51		1.30/1.45		0.60/0.74		0.34/0.45	
Power (W)	60/71		98/118		130/171		130/171		130/171	
Noise level (DB)	71		74		71					
Operating temperature range	-20°Cto +55°C									
Storage temperature	-25°Cto +70°C									
size	400x135x400									
Opening size (mm)	258x258									
Equipped with outlet filter	TK3326.300									



Distribution cabinet heating Temperature and humidity control system

Why use electric cabinet heater?

The heat generated by electrical equipment under load can prevent the accumulation of condensate. However, when the equipment stops working and cools down, it will gradually adapt to the ambient temperature, so that the temperature in the cabinet drops below the dew point. Therefore, this will trigger the demand for radiant heat. The heater will prevent the formation of condensate by raising the temperature of the electrical cabinet several degrees higher than the ambient temperature outside the cabinet.

- . Electric R series heaters cover the range from 10W to 1200.
- . Abundant heater supporting devices: temperature controller, temperature controller, pressure release compensation device, etc.

Type selection of heater

Calculation prerequisites:

1. Size of electrical control cabinet (length, width, height)
2. According to the Convention, it is necessary to know the location of the electrical control cabinet (such as single cabinet, row cabinet) and the effective surface area of the electrical cabinet
3. Heat exchange coefficient (w/m2k) of electric cabinet material (e.g. metal, plastic)
4. The set temperature T_i (°C) in the electric cabinet and the temperature T_u (°C) outside the cabinet (for example: day night, summer winter, temperature difference of climate change Δt (k))
5. The heat emitted by the electrical equipment inside the electric cabinet (such as transformer, relay, frequency converter, etc.) during operation

Select parameters for calculation:

1. Calculate the surface area of the electric cabinet according to its size
 2. Placement position of electric cabinet (as shown in the figure below)
- Single four week open
Single wall
Other empty cabinets in the front or last unit of the cabinet
The front or last unit in the middle is against the wall
The middle unit of the cabinet is open at the back
Row three openings and room unit, close to the wall
The middle unit of the cabinet is covered against the wall

Calculation formula of surface area of electric cabinet a (㎡) (H height, w width, D depth)

$$A = 1.8 \times H \times (W + D) + 1.4 \times W \times D$$

$$A = 1.4 \times W \times (H + D) + 1.8 \times D \times H$$

$$A = 1.4 \times D \times (H + W) + 1.8 \times W \times H$$

$$A = 1.4 \times H \times (W + D) + 1.4 \times W \times D$$

$$A = 1.8 \times W \times H + 1.4 \times W \times D + D \times H$$

$$A = 1.4 \times W \times (H + D) + D \times H$$

$$A = 1.4 \times W \times H + 0.7 \times W \times D + D \times H$$

For example: if the electric cabinet is open around, 2000mm high /800mm wide /600mm deep, then $a=1.8 \times \text{two} \times (0.8+0.6) + 1.4 \times \text{zero point eight} \times 0.6=5.712 \text{ m}^2$

3. Material of electric cabinet and its thermal coefficient K (w/ m² K)

Painted steel plate	5.5K(W/ m ² K)
Stainless steel plate	4.5K(W/ m ² K)
Aluminum plate	12K(W/ m ² K)
Aluminum plate with double-layer structure	4.5K(W/ m ² K)
Plastic board	3.5K(W/ m ² K)

4. Temperature difference inside and outside the cabinet ΔT (K)

$$\Delta T = T_i - T_u$$

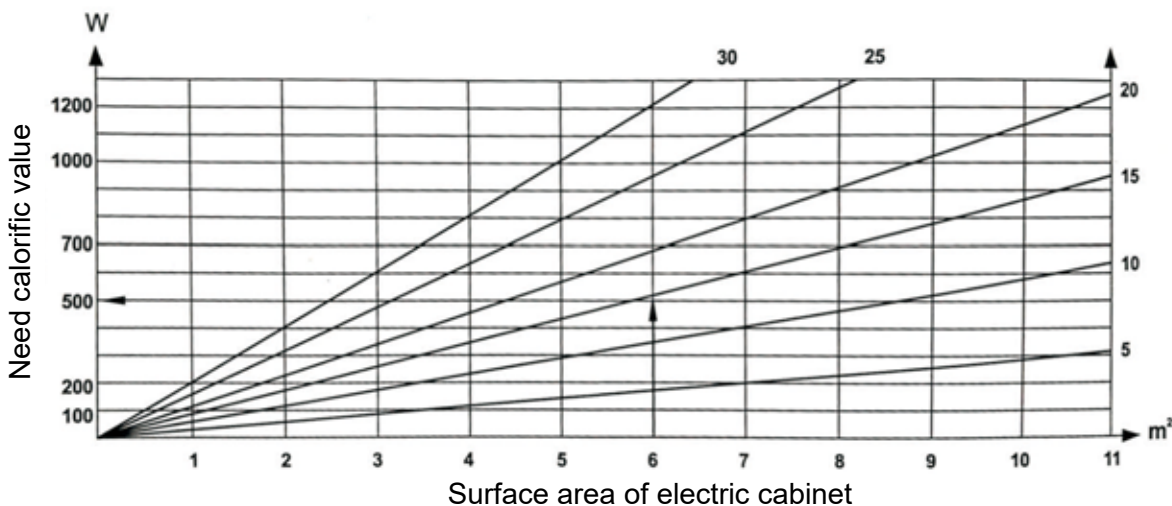
Calculation formula of required calorific value (heater)

Required heating capacity P (W) = surface area of electrical cabinet a (m²) × Heat exchange coefficient K of cabinet material (w/ m²) × Temperature difference ΔT (K)

Example: $w=5.712 \text{ m}^2 \times 5.5\text{W/ m}^2\text{K} \times 15\text{K}=471.24\text{w}$

Results: a heater with a heating capacity of 500W is required to meet the requirements. If the electric cabinet is located outdoors, the heating capacity of the heater required should be doubled

Model selection through the following experience chart



5. If the electrical equipment in the electrical cabinet is heated during operation, the calorific value of the electrical equipment must be subtracted when calculating the calorific value of the heater.

Selection of filter fan:

Select the appropriate cooling equipment according to the following experience chart:

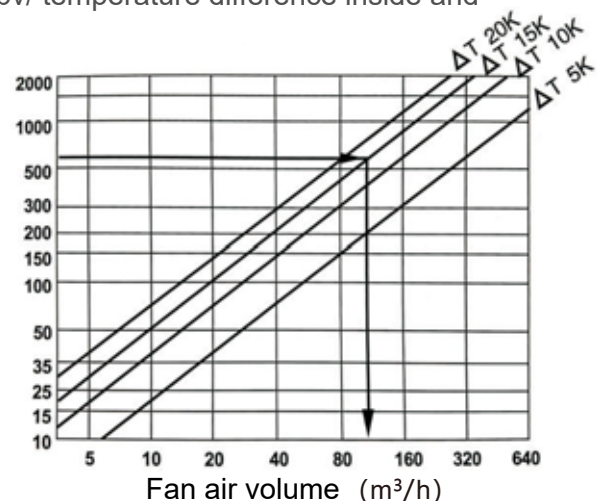
Select cooling equipment (filter fan) through calculation formula

Required air flow V (m³/h) = [heating capacity to be treated pv/ temperature difference inside and outside the cabinet ΔT (K) × Air constant [3.3m³ k/Wh]

Example: $v=[600\text{w}/15\text{k}] \times 3.3\text{m}^3 \text{ k/Wh}=132\text{m}^3/\text{h}$

Value range of air constant:

PV(0-100)=3.1m ³ k/Wh
PV(100-250)=3.3m ³ k/Wh
PV(250-500)=3.3m ³ k/Wh
PV(500-750)=3.4m ³ k/Wh
PV(750-1000)=3.5m ³ k/Wh



TRQ 15

HEATER

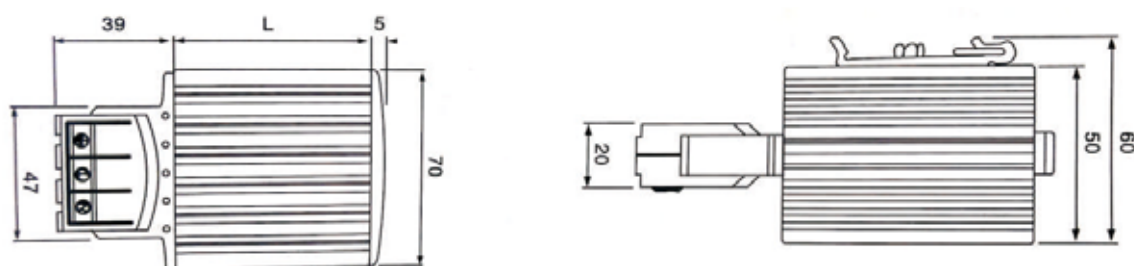
Shell material: stretched aluminum
Protection grade: IP20

The heater is used for applications where the electrical cabinet needs protection when it is wet, or where the temperature cannot be lower than the specified minimum value. The chimney effect formed by the aluminum fuselage design can release heat more smoothly. Pressure terminal connection saves time and makes installation easier.



Temperature Control

Dimension drawing



Model	Logistics code	Heat output (W) ambient temperature of 20 ° C	Maximum allowable current (A)	L (m)	Weight(kg)
TRQ15	1017001	15-20	1.5	65	0.2
TRQ30	1017002	30-35	2.5	65	0.2
TRQ45	1017003	45-50	3	65	0.2
TRQ60	1017004	60-65	3.5	140	0.2
TRQ75	1017005	75-80	4	140	0.2
TRQ100	1017006	100-110	4.5	140	0.38
TRQ150	1017007	150-160	9	220	0.38

Note: working voltage lower than 140V AC/DC will reduce heat output by about 10%

Operating voltage	230VAC 50/60Hz
Thermal element	PTC Temperature Limit
Electrical connection	3-position crimping terminal standard wire 0.5-2.5mm ²
Connection terminal	UL94V0
Installation requirements	Vertical
Operating / storage temperature	-45° C to +70° C

TRQ 250

HEATER

Shell material: stretched aluminum

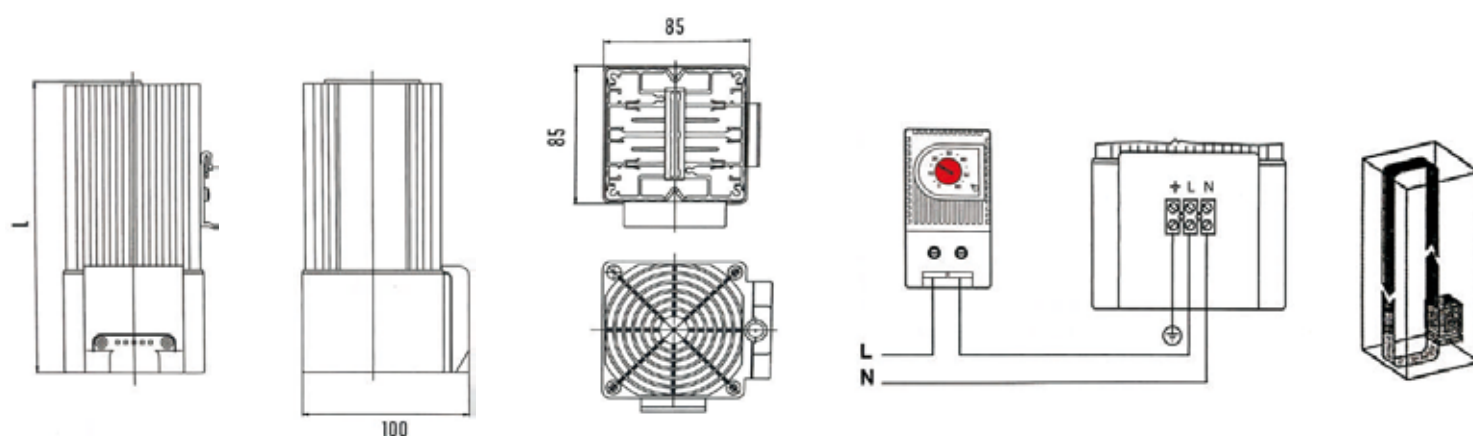
Protection grade: IP20

The compact heater protects the electrical cabinet from moisture erosion. The high-performance integrated axial fan provides strong air circulation, ensuring a balanced temperature environment for the control cabinet, and the built-in terminal connector is more secure.



Temperature Control

Dimension drawing



Model	Logistics code	Heat output(W)	W×H×D(mm)	Weight(kg)
TRQ250	1017008	230-270	85×180×85	1.1
TRQ350	1017009	320-380	85×220×85	1.4

Operating voltage	230VAC 50/60Hz
Thermal element	Nickel chromium wire
Temperature installation protection	Overheat protection in case of fan failure
Ball axial fan	AC:45m³/h(50Hz) 54m³/h(60Hz)
Electrical connection	R200:3X0.75mm² Cable standard wurd 0.5-2.5mm²
Connection terminal	UL94V0
Installation requirements	Vertical
Operating / storage temperature	-45° C to +70° C

TRQFM 100BA

FAN HEATER

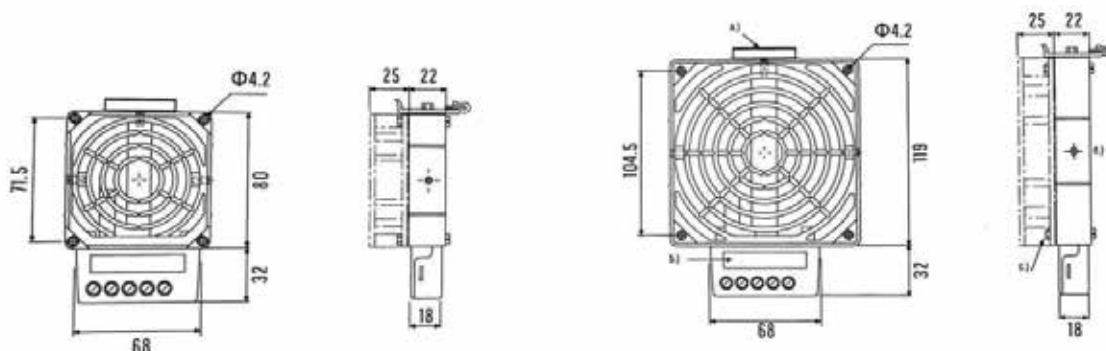
Shell material: stretched aluminum
Protection grade: IP20

High performance fan heater can prevent the formation of condensation and provide uniform air temperature for electronic / electrical components in the distribution cabinet. This product has two types: with fan and without fan.



Temperature Control

Dimension drawing



Model	Logistics code	Heat	Pre fuse t (time delay)	Size	Weight(kg)
TRQFM100BA	1017010	100W	1A/1.4A	80×112×22mm	0.4
TRQFM150BA	1017011	150W	1.25A/2A	80×112×22mm	0.4
TRQFM200BA	1017012	200W	1.4A/2.5A	119×151×22mm	0.5
TRQFM300BA	1017013	300W	2A/4A	119×151×22mm	0.5
TRQFM400BA	1017014	400W	4A/5A	119×151×22mm	0.5

Heating element	High performance cylinder
Temperature safety protection	Protect the fan from overheating and restart automatically
Heater body	Cast aluminum
connect	3-pole, screw connection 2.5mm ² , The maximum clamping torque is 0.8nm
Junction box	Black plastic, UL94V-0
install	35mm guide rail installation, en60715
Installation method	Vertical air flow (upward)
Operating / storage temperature	-45 °C to +7 °C (-49 °C to +158 °C)
Operating / storage temperature	Max. 90% RH
Degree of protection	IP20 (grounding)
Axial flow fan, ball	twenty-five °C (77 °C) Service life at °C) 50000 hours
Axial flow fan, wiring	2-pole, screw connection 2.5mm ² (L2/N2)

TRQFS 650BA

FAN HEATER

Shell material: Plastic

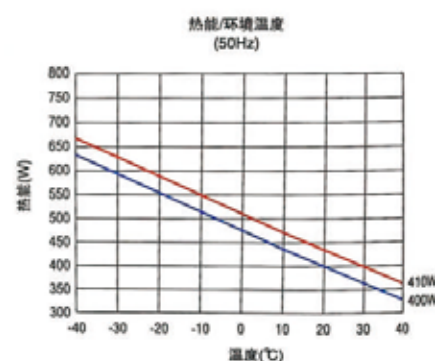
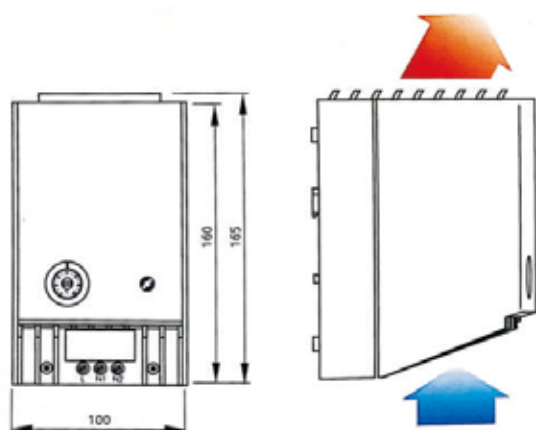
Protection grade: IP20

The semiconductor fan heater is mainly used in the distribution cabinet to prevent dripping. The integrated regulator is used to adjust the temperature change and provide uniform air temperature to the electronic / electrical components in the distribution cabinet.



Temperature Control

Dimension drawing



Model	Logistics code	Voltage	Hot easy 50Hz	Max current	Pre fuse t (time delay)	Air volume	humidity	Weight(kg)
TRQFS650BA	1017015	220-240VAC	400-410W	13.0A	8A	45m³/h	0~+60°C	1.1

Heating element	PTC resistor - temperature limit
Temperature safety protection	Protect the fan from overheating and restart automatically
Axial flow fan, ball bearing	The air volume is shown in the table below, and the service life is 50000 hours at 25 °C (77 °F)
connect	2 poles, 2.55mm ² , The maximum clamping torque is 0.8nm
Shell material	Light grey plastic, UL94V-0
Signal index	Thermostatic control lamp
install	35mm DIN rail, en60715
Installation method	Vertical air flow (in the wind direction), or other ways of installation
Operating / storage temperature	-45 °C to +70 °C (-49 °f to +158 °f)
Operating / storage temperature	Maximum 90% RH (non condensing)
Degree of protection	IP20 (double insulation)

TRQFS 800BAT

FAN HEATER

Shell material: Plastic

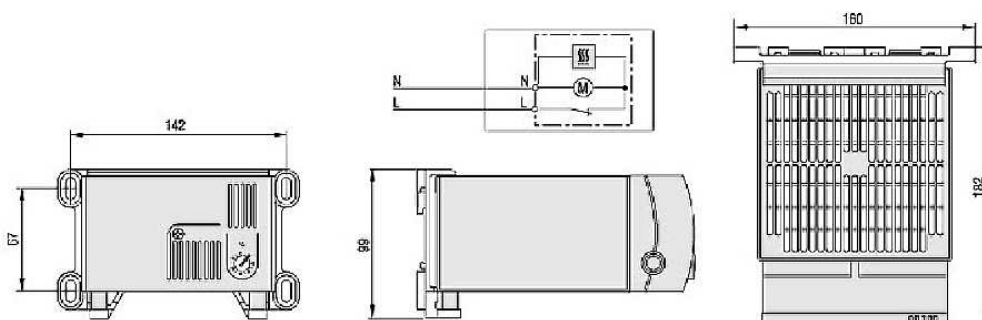
Protection grade: IP20

Compact high-performance fan heater can prevent the formation of condensation and provide uniform air temperature for electronic / electrical components in the distribution cabinet. The plastic housing provides double insulation protection. This product effectively uses the optional integrated thermostat to control the temperature. It is designed as a wall mounted fixed type and is recommended to be installed at the bottom of the cabinet.



Temperature Control

Dimension drawing



Model	Logistics code	Voltage	Heating capacity	Max current	Pre fuse t (time delay)	Set temperature	Weight(kg)
TRQFS800BAT	1017016	230VAC,50/60Hz	760-840W	13A	8A	0~+60°C	1.3
TRQFS1000BAT	1017017	230VAC,50/60Hz	950-1050W	13A	8A	0~+60°C	1.3

Exothermic body	PTC
Temperature safety protection	Protect the fan from overheating and restart automatically
Axial flow fan, ball bearing	See the following table for air volume 160m ³ /h. 50000 hours at 25 °C (77 °F)
Connection mode	2 poles, max. 2.5mm ² , Clamping screw Maximum torque 0.8nm
Shell material	Black plastic, UL94V-0
install	35mm DIN rail, en60715
Installation position	Vertical air flow (in the wind direction), or other ways of installation
size	one hundred and eighty-two × one hundred and sixty × 120mm
Operating / storage temperature	-45 °C to +70 °C (-49 °F to +158 °F)
Operating / storage temperature	Maximum 90% RH (non condensing)
Degree of protection	IP20 (double insulation)

TSK 3110

AUTO TEMPERATURE CONTROLLER

Shell material: ABB
Protection grade: IP20

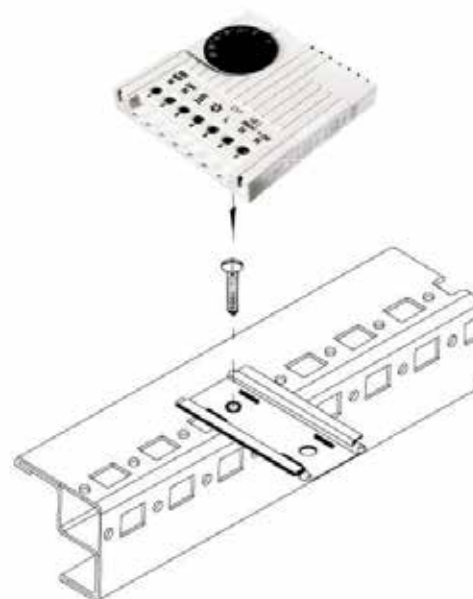
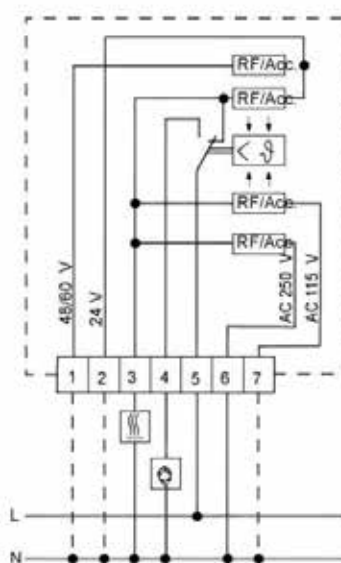
It is especially suitable for controlling filter fans, heaters and heat exchangers, as well as monitoring the internal temperature of the control cabinet.



Temperature Control

Dimension drawing

48V 60V N	24V N	⋈	⬡	(L1*) L	(L2*) 250V N	115V N
1	2	3	4	5	6	7



Model	TSK 3 110
Material code	1018001
Inductive element	Bimetallic sheet
Electric shock configuration	Single machine switching electric shock as instantaneous switching element
Allowable electric shock load	K1.5-3 (heating) AC 10 (4) a, DC =300w; K1.5-4 (cooling) AC 5 (4) a, DC =30w
Temperature regulation range	+5 °C to +60 °C
Rated working voltage	230/115/60/48/24 (AC) 60/48/24v DC (DC)
weight	105g
Size	seventy-one × seventy-one × 33.5mm
Switching difference	About 1K plus or minus 0.8k

TKS 011

AUTO TEMPERATURE CONTROLLER

Shell material: ABB
Protection grade: IP20

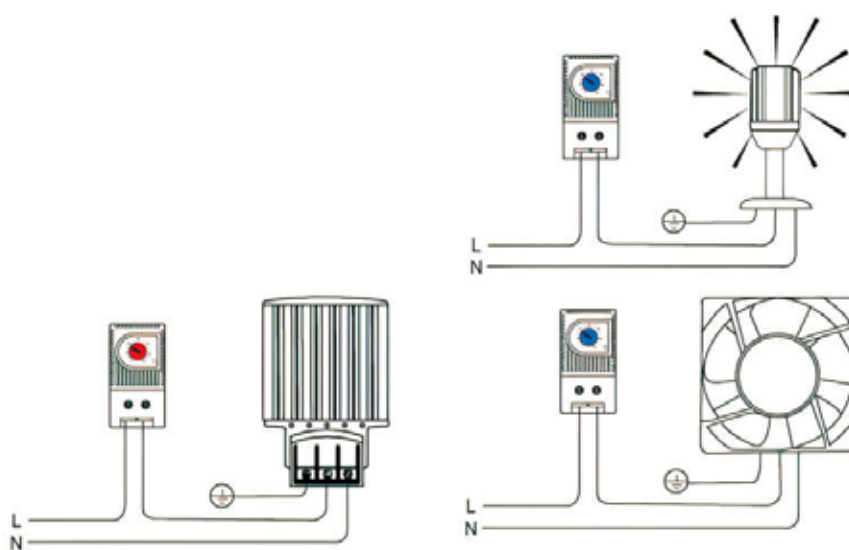
It is often used to monitor filter fans, heat exchangers or close the circuit to output signals when the temperature exceeds the set value. Tks011 thermostat (normally open): it is often used to monitor filter fans, heat exchangers or close the circuit to output signals when the temperature exceeds the set value.

Tko011 thermostat (normally closed): it is usually used to connect the heater and disconnect the line when the temperature reaches the set value.



Temperature Control

Dimension drawing



Model	TKS 011	TKO 011
Material code	1018002	1018003
Temperature range	0-60 °C	
state	Tks011 (normally open) tko011 normally closed (red)	
Switch temperature tolerance	7K (plus or minus 4K)	
Inductive element	Bimetallic sheet	
Maximum switching capacity	250VAC,10(2)A/120VAC,15(2)A DC 30W	
Electrical connection	2-pole 2.5mm,0.8Nm	
install	35mm DIN rail installation	
Terminal connection	UL94V0	
size	sixty × thirty-three × 43mm	
Operating / stored value range	-5 °C to +80 °C	

TZR 011

AUTO TEMPERATURE CONTROLLER

Shell material: ABB
Protection grade: IP20

One thermostat contains two temperature settings

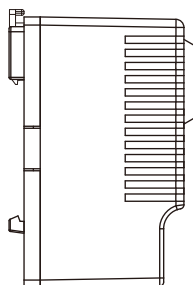
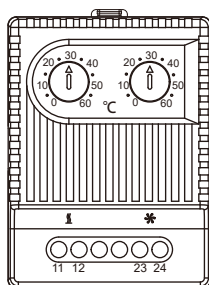
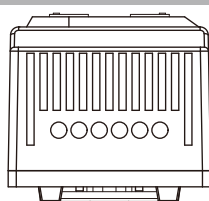
Normally open contacts are often used to monitor filter fans, heat exchangers or close the circuit to output signals when the temperature exceeds the set value.

Normally closed contact: usually used to connect the heater and disconnect the circuit when the temperature reaches the set value

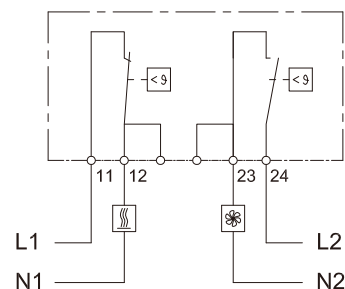


Temperature Control

Dimension drawing



电路原理图如下:



Model	TZR 011
Material code	1018004
Temperature range	0-60°C
Switch temperature tolerance	7K (±4K)
Inductive element	Bimetallic sheet
Maximum switching capacity	250VAC, 10(2)A/120VAC, 15(2)A DC 30W
Electrical connection	4-pole 2.5mm, 0.8Nm
install	35mm DIN DIN-Rail Mounting
Terminal connection	UL94V0
weight	90g
size	69×50×46mm
Operating / stored value range	-5°C to +80°C

TZK 011

AUTO TEMPERATURE CONTROLLER

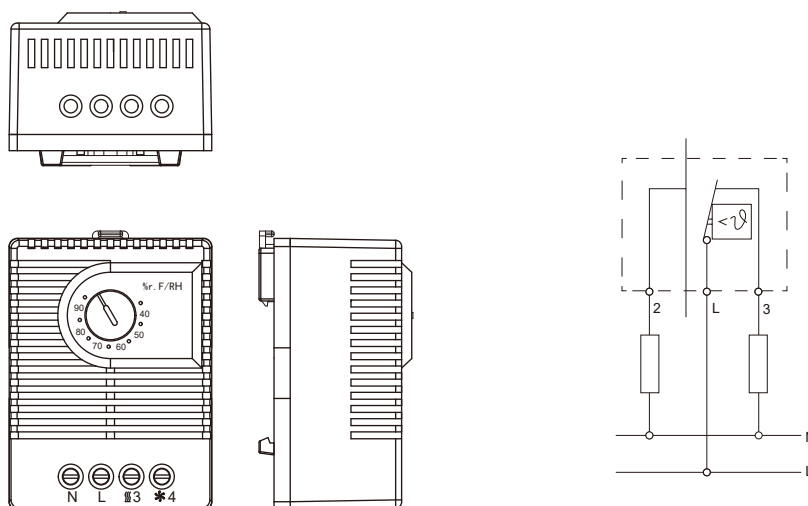
Shell material: ABB
Protection grade: IP20

The electromechanical temperature controller is used to increase the ambient temperature in the cabinet by controlling the heater when the relative humidity exceeds 65%, so as to avoid the occurrence of humidity and corrosion.



Temperature Control

Dimension drawing



Model	TZK 0 11
Material code	1018005
Switch temperature tolerance	4%RH ($\pm 3\%$)
Allowable air rate	15m/s
Maximum switching capacity	250VAC, 5(0.2)A/DC 30W
Electrical connection	3-pole 2.5mm, 0.8Nm
install	35mm DIN DIN-Rail Mounting
Terminal block	UL94V0
size	67×50×38mm
Operating / stored value range	0°C to +80°C



TAPE-MOUNTED END SLEEVES

End Sleeves tape-mounted DIN 46228 T4

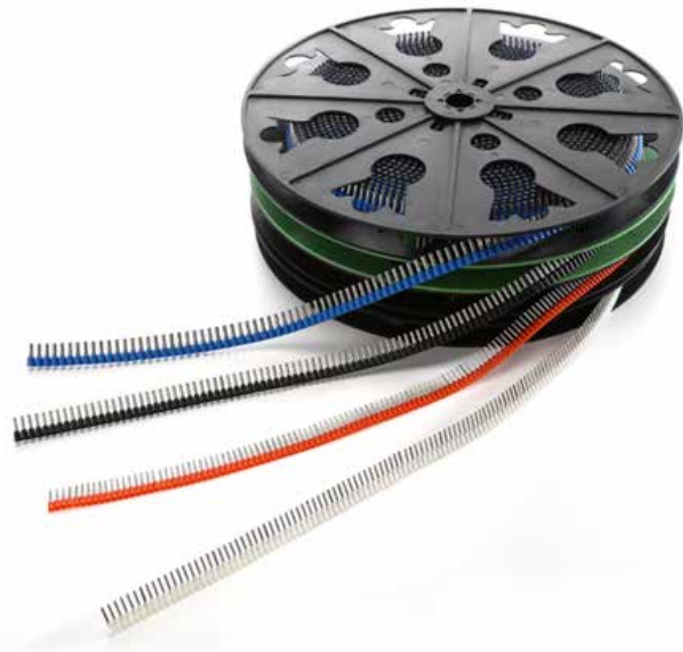
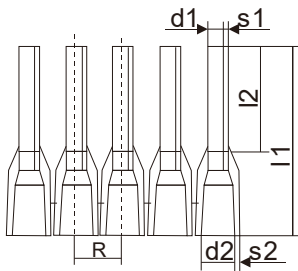
Spender/Dispenser

Material: Copper/Plastic

Surface: Tin plated



150×150×18mm



mm ²	-mm	AWG	DIN COLOR	FRENCH COLOR	GEEAN COLOR	PCS.	l1	l2	d1	d2	s1	s2	R
0.5	-8	20	WH	WH	OG	6000	14.5	8	1.1	2.6	0.15	0.3	3.5
0.5	-10	20	WH	WH	OG	6000	16.5	10	1.1	2.6	0.15	0.3	3.5
0.5	-12	20	WH	WH	OG	6000	18.5	12	1.1	2.6	0.15	0.3	3.5
0.75	-8	20	GY	BU	WH	5500	14.5	8	1.3	2.8	0.15	0.3	3.6
0.75	-8	20	GY	BU	WH	5500	16.5	10	1.3	2.8	0.15	0.3	3.6
0.75	-12	20	GY	BU	WH	5500	18.5	12	1.3	2.8	0.15	0.3	3.6
1.0	-8	18	RD	RD	YE	5000	14.5	8	1.5	3.0	0.15	0.3	3.9
1.0	-10	18	RD	RD	YE	5000	16.5	10	1.5	3.0	0.15	0.3	3.9
1.0	-12	18	RD	RD	YE	5000	18.5	12	1.5	3.0	0.15	0.3	3.9
1.5	-8	16	BK	BK	RD	4000	14.5	8	1.8	3.4	0.15	0.3	4.2
1.5	-10	16	BK	BK	RD	4000	16.5	10	1.8	3.4	0.15	0.3	4.2
1.5	-12	16	BK	BK	RD	4000	18.5	12	1.8	3.4	0.15	0.3	4.2
2.5	-8	14	BU	GY	BU	3500	14.5	8	2.3	4.2	0.15	0.3	5.0
2.5	-10	14	BU	GY	BU	3500	16.5	10	2.3	4.2	0.15	0.3	5.0
2.5	-12	14	BU	GY	BU	3500	18.5	12	2.3	4.2	0.15	0.3	5.0

End Sleeves tape-mounted DIN 46228 T4

SIZE -LENGTH		AWG	PART NO. DIN		PART NO. DIN		PART NO. DIN		PCS.	DIMENSIONS				
mm ²	-mm									l1	l2	d1	d2	R
0.5	-8	20	A00555K	WH	A00555K	WH	A00555K	WH	10*1000	14.5	8	1.1	2.6	3.5
0.75	-8	20	A00555K	GY	A00555K	GY	A00555K	GY	10*1000	14.5	8	1.3	2.8	3.6
1	-8	18	A00555K	RD	A00555K	RD	A00555K	RD	10*1000	14.5	8	1.5	3.0	3.9
1.5	-8	16	A00555K	BK	A00555K	BK	A00555K	BK	10*1000	14.5	8	1.8	3.4	4.2
2.5	-8	14	A00555K	BU	A00555K	BU	A00555K	BU	10*1000	14.5	8	2.3	4.2	5.0

