



PRODUCT MANUAL

Focus
on cabinet
environment
system

THERMOSTAT | HEATER | DEHUMIDIFIER | FAN FILTER

KTS 011/KTO 011



Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	approx. 3.2 oz. (90 g)
Mounting	clip for 35 mm DIN rail
Dimensions	60 x 33 x 43 mm
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

KTS 111/KTO 111



Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	approx. 3.2 oz. (90 g)
Mounting	clip for 35 mm DIN rail
Dimensions	65x 33 x 43 mm
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

KTS 012/KTO 012



Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	approx. 3.2 oz. (90 g)
Mounting	clip for 35 mm DIN rail
Dimensions	75 x 33 x 43 mm
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

KTS 013/KTO 013



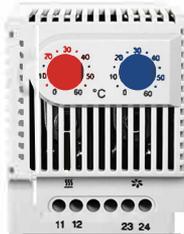
Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	40 g
Mounting	clip for 35 mm DIN rail
Dimensions	60 x 33 x 43 mm
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

KTS 021/KTO 021



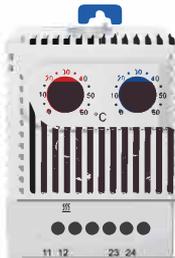
Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	80g
Mounting	clip for 35 mm DIN rail
Dimensions	50*67*46mm
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

ZR 011



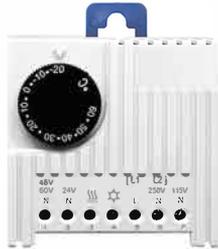
Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	approx. 3.2 oz. (90 g)
Mounting	clip for 35 mm DIN rail
Dimensions	2.6 x 2.0 x 1.8" (67 x 50 x 46 mm)
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

ZR 111



Switching difference	12.6 ° F ± 7 ° F tolerance (7 K ± 4 K)
Sensor element	thermostatic bimetal
Contact type	snap-action contact
Service life	> 100,000 cycles
Max. switching capacity	NC: 10 A resistive / 2 A inductive @ AC 250 V NO: 5 A resistive / 2 A inductive @ AC 250 V 15 A resistive / 2 A inductive @ AC 120 V DC 30 W (DC 24-72 V)
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Weight	approx. 3.2 oz. (90 g)
Mounting	clip for 35 mm DIN rail
Dimensions	74x 50 x 47 mm)
Operating/Storage temperature	-49 to +176 ° F (-45 to +80 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Protection type	IP20

SK 3110



Switching difference	1K±0.8K
Sensor element	NTC
Adjusting range	-20°C to +60°C
Voltage scope	24V-230V
Housing	PC
Dimensions	76.5*70*30mm
Weight	Approx.105g
Mounting	clip for 35 mm DIN rail
Fitting position	Vertical
Operating/Storage temperature	-49 to +176°F (-45 to +80°C)
Operating/Storage humidity	Max.90%RH(non-condensing)
Protection type	IP20

ETR 011



Switching difference	7 ° F (4 K) ±1.8 ° F (1 K) tolerance at +68 ° F (+20 ° C)
Sensor element	NTC
Reaction time	approx. 5 seconds
Contact type	SPDT / change-over contact (relay)
Service life	> 50,000 cycles
Max. switching capacity (relay output)	8 A resistive / 1.6 A inductive @ AC 120 V / AC 240 V 100 W @ DC 24 V
Max. inrush current	AC 16 A for 10 sec.
Housing	PC
Mounting	clip for 35 mm DIN rail
Operating/Storage temperature	-40 to +185 ° F (-40 to +85 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Dimensions	2.54 x 1.65 x 1.5" (64.5 x 42 x 38 mm)
Weight	approx. 2 oz. (60 g)
Protection type	IP20

ETF 012



ELECTRONIC HYGROTHERM

Switching difference (temperature)	2 K (±1 K tolerance) at +25 ° C (+77 ° F), 50 %RH
Switching difference (humidity)	4 %RH (± 1 % tolerance) at +25 ° C (+77 ° F), 50 %RH
Reaction time (humidity)	approx. 5 sec.
Contact type	change-over contact (relay)
Service life	> 30,000 cycles
Max. switching capacity (relay output)	10 A resistive / 1.6 A inductive @ AC 240 V 0.6 A @ DC 60 V
Max. inrush current	AC 30 A for 10 sec.
Housing	PC
Mounting	clip for 35 mm DIN rail
Operating/Storage temperature	-40 to +140 ° F (-40 to +60 ° C)
Operating/Storage humidity	max. 90 %RH (non-condensing)
Dimensions	3.0 x 2.4 x 1.7" (77 x 60 x 43 mm)
Weight	approx. 3.5 oz. (100 g)
Protection type	IP20

MFR 012



MECHANICAL HYGROSTAT

Switching difference	4 %RH (± 3 % tolerance) - at 50 %RH
Sensor element	SPDT / change-over contact
Service life	> 50,000 cycles
Min. Switching capacity	100 mA @ AC/DC 20 V
Max. Switching capacity	5 A resistive @ AC 250 V DC 20 W
Housing	PC
Weight	approx. 2 oz. (60 g)
Mounting	clip for 35 mm DIN rail
Dimensions	2.64 x 1.97 x 1.5" (67 x 50 x 38 mm)
Operating/Storage temperature	+32 to +140 ° F (0 to +60 ° C) / -40 to +140 ° F (-40 to +60 ° C)
Operating/Storage humidity	max. 95 %RH (non-condensing)
Protection type	IP20

ELECTRONIC HYGROSTAT

EFR 012



Switching difference	5 % RH (± 1 % tolerance) - at 77 ° F (25 ° C) and 50 % RH
Reaction time	approx. 5 sec.
Contact type	SPDT / change-over contact (relay)
Service life	> 50,000 cycles
Max. switching capacity (relay output)	8 A resistive / 1.6 A inductive @ AC 120 V / AC 240 V 100 W @ DC 24 V
Max. inrush current	AC 16 A for 10 sec.
Optical indicator	LED
Connection	5-pole terminal, clamping torque 0.5 Nm max.:solid/stranded1 wire - AWG 14 max. (2.5 m ²)
Housing	plastic, UL 94V-0
Mounting	clip for 35 mm DIN rail, EN 60715
Operating / Storage temperature	+32 to +140 ° F (0 to +60 ° C) / -4 to +158 ° F (-20 to +70 ° C)
Operating / Storage humidity	max. 95 %RH (non-condensing)
Dimensions	2.54 x 1.65 x 1.5" (64.5 x 42 x 38 mm)
Weight	approx. 2.3 oz. (65 g)
Protection type	IP20

SK 3118



Switching difference(ST)	±3%
Sensor element	1Z
Adjusting range	40~90% RH
Voltage scope	24V-250V
Housing	PC
Dimensions	76.5mm*30mm*70mm
Weight	90 g
Mounting	35MM DIN rail
Fitting position	Vertical
Operating/Storage temperature	0 to +60 ° C / -20 to +70 ° C (4 °C Frost protection)
Operating/Storage humidity	Max.90%RH(non-condensing)
Protection type	IP20

PTC Heater
HG 140



Model	HG 140
Operating voltage	AC/DC 120-240 V (min. 110 V, max. 265 V)
Heating element	PTC resistor, temperature limiting
Heater body	extruded aluminum profile, anodized
Connection	3 cage clamps for solid wire AWG 20-14 (0.5-2.5 m ²), and stranded wire (with wire end ferrule) - AWG 20-16 (0.5-1.5 m ²)
Connection casing	plastic, UL 94V-0
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Heating capacity	15W-150W customizable
Leangth (L)	65mm/140mm
Weight	300g/500g
Protection type	IP20

Aluminum alloy heating plate
DJR



Model	DJR
Heating element	Resistance wire
Operating voltage	AC 110-220
Connection	Terminal block
Service life	>50000h
Heater body	Aluminum alloy
Dimensions	156*100*23mm
Weight	235g
Heating capacity	50W-200W customizable
Protection type	IP20

Fan Heater
DJR-F



Model	DJR-F
Heating element	Resistance wire
Operating voltage	AC 110-220
Connection	Terminal block
Service life	>50000h
Heater body	Aluminum alloy
Dimensions	156*100*55mm
Weight	530g
Heating capacity	50W-200W customizable
Fan air volume	60 m ³ /h
Protection type	IP20

Cast aluminum heater
HV 031



Operating voltage	AC 120-240 V
Heating element	high performance cartridge
Heater body	die-cast aluminum, glass bead finish
Connection	3-pole terminal AWG 14 max. (2.5 mm ²), torque 0.8 Nm max.
Connection housing	plastic, UL 94V-0
Heating capacity	100W/150W/200W/300W/400W
Weight	350g/500g
Dimensions	22 x 80 x 112 mm / 22 x 119 x 151 mm
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Protection class / Protection type	I (grounded) / IP20

Cast aluminum fan heater HVL 031



Operating voltage	AC 120-240 V
Heating element	high performance cartridge
Heater body	die-cast aluminum, glass bead finish
Axial fan, ball bearing	service life 50,000 h at 77 ° F (25 ° C)
Axial fan connection	2-pole terminal AWG 14 max. (2.5 mm ²), terminals L2/N2
Connection	3-pole terminal AWG 14 max. (2.5 mm ²), torque 0.8 Nm max.
Connection housing	plastic, UL 94V-0
Heating capacity	100W/150W/200W/300W/400W
Weight	600g/900g
Dimensions	2.1 x 3.15 x 4.41" (53 x 80 x 112 mm)/2.2 x 4.68 x 5.94" (57 x 119 x 151 mm)
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Protection class / Protection type	I (grounded) / IP20

PTC fan heater CZ 6090



Operating voltage	220-240VAC
Heating element	PTC
Heater body	anodized aluminum
Power	100W-500W
Connection	AWG 20 - 14 (0.5 - 2.5mm ²)
Fan air volume	30 m ³ /hr
Dimensions	63*93*90mm
Weight	367g
Mounting	clip for 35 mm DIN rail
Mounting position	vertical airflow
Operating temperature	-40 ~ 70 ° C
Ingress Protection	IP20

PTC fan heater HGL 046



Operating voltage	120-230VAC (customizable)
Heating element	PTC
Heater body	extruded aluminum, anodized
Air flow, free blowing	26 cfm (45 m ³ /h)
Connection	3-pole terminal AWG 16 max. (1.5 mm ²)
Overheat protection	built-in temperature limiter
Heating capacity	150W-500W
Weight	600g/1000g
Housing	plastic, UL 94V-0
Dimensions	110*80*190mm/110*80*225mm
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Ingress Protection	I (grounded) / IP20

PTC fan heater HGM 050



Operating voltage	120-230VAC (customizable)
Heating element	PTC
Heater body	extruded aluminum, anodized
Air flow, free blowing	45-54 m ³ /h
Connection	5P terminal block
Overheat protection	built-in temperature limiter
Heating capacity	300W-1500W
Weight	990g/1600g
Housing	plastic, UL 94V-0
Dimensions	108*124*122mm/132*165*122mm
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Ingress Protection	IP20

PTC fan heater
CS 130



Operating voltage	120-230VAC
Heating element	PTC
Axial fan, ball bearing	service life 50,000 h at 77 ° F (25 ° C)
Air flow, free blowing	94 cfm (160 m³/h)
Connection	2-pole terminal AWG 16 max. (1.5 mm²)
Overheat protection	built-in temperature limiter
Heating capacity	800W-1200W
Weight	approx. 2.6 lbs. (1.2 kg)
Housing	plastic, UL 94V-0
Dimensions	4.7" x 6.6" x 7.2" (120 x 168 x 182 mm)
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Ingress Protection	IP20

PTC fan heater
CS 028



Operating voltage	120-230VAC (customizable)
Heating element	PTC
Axial fan, ball bearing	service life 40,000 h at 104 ° F (40 ° C)
Air flow, free blowing	CS 028: 8 cfm (13.8 m³/h) / CSL 028: 26 - 32 cfm (45 - 54 m³/h)
Connection	2-pole terminal AWG 14 max. (2.5 mm²)
Overheat protection	built-in temperature limiter
Heating capacity	250W-600W
Weight	300g /500g
Housing	plastic, UL 94V-0
Dimensions	65*92*75mm/85*113*90mm
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Ingress Protection	II (double insulated) / IP20

PTC heater
CS 060



Operating voltage	AC/DC 120-240 V (min. 110 V, max. 265 V)
Heating element	PTC resistor, temperature limiting
Surface temperature	< 176 ° F (80 ° C), except upper protective grill
Connection	4-pole terminal AWG 14 max (2.5 mm²), torque 0.8 Nm max.
Housing	plastic, UL 94V-0, black
Power	50W-150W
Length (L)	150mm
Weight	440g
Installation method	35mm DIN rail
Mounting position	vertical airflow (air outlet up, connection on bottom)
Operating / Storage temperature	-49 to +158 ° F (-45 to +70 ° C)
Operating / Storage humidity	max. 90 %RH (non-condensing)
Protection class / Protection type	II (double insulated) / IP20

Intelligent fan heater
SGS 001



Operating voltage	100V-265V
Heating element	PTC
Service life of fan	70000h
Air flow, free blowing	43m³/h
Fault alarm function	Fan fault and heater fault alarm indicators flash
Protection function	Six fold protection
Heating capacity	400W /600W
Weight	1400g
Housing	sheet metal
Dimensions	178*36*192mm
Mounting	clip for 35 mm DIN rail
Operating / Storage temperature	-45 to +70 ° C

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DC fan heater CZ 4040



Operating voltage	DC12V-24V
Heating element	PTC
Housing	PC
Power	50W--200W (Customizable)
Fan air volume	11.2 m ³ /hr (6.7 CFM) Customizable
Dimensions	44*68*68mm(Regardless of rope length)
Weight	105g
Mounting position	35 mm DIN rail
Mounting	vertical
Fan Operating Temperature Range	-10 ~70°C
Ingress Protection	IP20

DC fan heater CZ 4060



Operating voltage	DC12V-48V
Heating element	PTC
Heater body	anodized aluminum
Power	50W--200W
Fan air volume	11.2 m ³ /hr (6.7 CFM)
Dimensions	40*47*84.5mm/40*47*114mm
Weight	116g/230g
Mounting	clip for 35 mm DIN rail
Fan Operating Temperature Range	-10 ~70°C
Ingress Protection	IP20

TB98 series



TB 9803



TB 9804



TB 9805



TB 9806

Product number	TB 9803.230		TB 9803.115	
Axial Fan	ZF-120S-230	ZF-120B-230	ZF-120S-115	ZF-120B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	105/120m ³ /h			
Air flow, with outlet filter	1xTB9803: 71/82m ³ /h		2xTB9803: 85/98m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.12/0.10		0.24/0.23	
Power (W)	19/14		18/15	
Noise level (dB)	43/50			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			

Product number	TB 9804.230		TB 9804.115	
Axial Fan	ZF-120(150)S-230	ZF-120(150)B-230	ZF-120(150)S-115	ZF-120(150)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	120/128m ³ /h			
Air flow, with outlet filter	1xTB9804: 71/82m ³ /h		2xTB9804: 85/98m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.12/0.10	0.25	0.24/0.23	0.5
Power (W)	10/14	36	19/15	36
Noise level (dB)	43/50	58	43/50	58
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			

Product number	TB 9805.230		TB 9805.115	
Axial Fan	ZF-150S-230	ZF-150(220)B-230	ZF-150S-115	ZF-150(220)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	190/220m ³ /h			
Air flow, with outlet filter	1xTB9805: 170/205m ³ /h		2xTB9805: 210/235m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.25	0.25/0.45	0.5	0.5/0.9
Power (W)	36	36/65	36	36/65
Noise level (dB)	58/65			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			

Product number	TB 9806.230		TB 9806.115	
Axial Fan	ZF-150S-230	ZF-150(250)B-230	ZF-150S-115	ZF-150(250)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	960/1020m ³ /h			
Air flow, with outlet filter	1xTB9806: 738/784m ³ /h		2xTB9806: 856/909m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.25/0.23	0.25/0.23/0.25	0.48/0.55	0.48/0.55/0.5
Power (W)	35/38	35/38/60	41/38	41/38/60
Noise level (dB)	59/68			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			



TB 9807

Product number	TB 9807.230	TB 9807.300
Effective air volume	100m ³ /min	
maximum wind speed	2m/sec.	
Dust removal rate	80%	
Pressure loss range	6.7-20 INCH-H2O	
Operating temperature	-10°C~+85°C	
Power (W)	19/14	
Material	ABS	
Flammability rating	UL94-V0	
Protection class	IP 54	

TB99 series



TB 9903

Product number	TB 9903.230		TB 9903.115	
Axial Fan	ZF-120S-230	ZF-120B-230	ZF-120S-115	ZF-120B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	105/120m ³ /h			
Air flow, with outlet filter	1xTB9903: 71/82m ³ /h		2xTB9903: 85/98m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.12/0.10		0.24/0.23	
Power (W)	19/14		18/15	
Noise level (dB)	36/40			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			



TB 9904

Product number	TB 9904.230		TB 9904.115	
Axial Fan	ZF-120(150)S-230	ZF-120(150)B-230	ZF-120(150)S-115	ZF-120(150)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	120/128m ³ /h			
Air flow, with outlet filter	1xTB9904: 71/82m ³ /h		2xTB9904: 85/98m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.12/0.10	0.25	0.24/0.23	0.5
Power (W)	10/14	36	19/15	36
Noise level (dB)	43/50	58	43/50	58
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			



TB 9905

Product number	TB 9905.230		TB 9905.115	
Axial Fan	ZF-150S-230	ZF-150(220)B-230	ZF-150S-115	ZF-150(220)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	190/220m ³ /h			
Air flow, with outlet filter	1xTB9905: 170/205m ³ /h		2xTB9905: 210/235m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.25	0.25/0.45	0.5	0.5/0.9
Power (W)	36	36/65	36	36/65
Noise level (dB)	58/65			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			



TB 9906

Product number	TB 9906.230		TB 9906.115	
Axial Fan	ZF-150S-230	ZF-150(250)B-230	ZF-150S-115	ZF-150(250)B-115
Operating Voltage (V/Hz)	230/50/60		115/50/60	
Air flow, free blowing	960/1020m ³ /h			
Air flow, with outlet filter	1xTB9906: 738/784m ³ /h		2xTB9906: 856/909m ³ /h	
Axial fan	Automatic shielded pole motor			
Rated current (A)	0.25/0.23	0.25/0.23/0.25	0.48/0.55	0.48/0.55/0.5
Power (W)	35/38	35/38/60	41/38	41/38/60
Noise level (dB)	59/68			
working temperature	-10°C~+55°C			
Material	ABS			
Flammability rating	UL94-V0			
Protection class	IP 54			

TK88 series



TK 8821

Product number	TK 8821.230	TK 8821.115	TK 8821.024
Axial Fan	ZF-92S-230	ZF-92S-115	ZF-92B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	20/25m ³ /h		20m ³ /h
Air flow, with outlet filter	1x TK 8821.300: 15/18m ³ /h		
Axial fan	Axial auto start shaded pole motor		
Rated current (A)	0.07/0.06	0.12/0.10	0.18
Power (W)	11/13	11/13	
Noise level (dB)	38/43		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 8822

Product number	TK 8822.230	TK 8822.115	TK 8822.024
Axial Fan	ZF-120S-230	ZF-120S-115	ZF-120B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/56m ³ /h		
Air flow, with outlet filter	1x TK 8822.300: 43/50m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.12/0.10	0.24/0.20	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	50/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		



TK 8823

Product number	TK 8823.230	TK 8823.115	TK 8823.024
Axial Fan	ZF-120S-230	ZF-120S-115	ZF-120B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	105/120m ³ /h		
Air flow, with outlet filter	1x TK 8823.300: 71/82m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.12/0.10	0.24/0.20	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	50/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 8825

Product number	TK 8825.230	TK 8825.115	TK 8825.024
Axial Fan	ZF-162S-230	ZF-162S-115	ZF-150B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	230/265m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.26/0.20	0.51/0.42	0.46
Power (W)	37/33	40/35	14
Noise level (dB)	48/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		



TK 8826

Product number	TK 8826.230	TK 8826.115
Axial Fan	ZF-260S-230	ZF-260S-115
Operating Voltage (V/Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m ³ /h	
Air flow, with outlet filter	1xTK 8826.300:360/390m ³ /h	
Axial fan	capacitor motor	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
working temperature	-10°C~+55°C	
Material	ABS	
Flammability rating	UL94-V0	



TK 8826D

Product number	TK 8826.230-D	TK 8826.115-D
Axial Fan	ZF-320B-230	ZF-320B-115
Operating Voltage (V/Hz)	230/50/60	115/50/60
Air flow, free blowing	1200/1350m ³ /h	
Air flow, with outlet filter	1xTK 8826.300:769/890m ³ /h	2xTK 8826.300:910/1000m ³ /h
Axial fan	capacitor motor	
Rated current (A)	0.47/0.59	1.10/1.20
Power (W)	65/77	61/71
Noise level (dB)	68/70	
working temperature	-10°C~+55°C	
Material	ABS	
Flammability rating	UL94-V0	

TK33 series



TK 3321

Product number	TK 3321.230	TK3321.115	TK3321.024
Axial Fan	ZF-92S-230	ZF-92S-115	ZF-92B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	20/25m ³ /h		
Air flow, with outlet filter	1xTK 3321.300: 15/18m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.07/0.06	0.12/0.10	0.18
Power (W)	11/13	11/13	24
Noise level (dB)	36/38		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 3322

Product number	TK 3322.230	TK3322.115	TK3322.024
Axial Fan	ZF-120S-230	ZF-120S-115	ZF-120B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/56m ³ /h		
Air flow, with outlet filter	1xTK 3322.300: 43/50m ³ /h 2xTK 3322.300: 48/58m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.12/0.10	0.24/0.20	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	50/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 3323

Product number	TK 3323.230	TK3323.115	TK3323.024
Axial Fan	ZF-120S-230	ZF-120S-115	ZF-120B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/56m ³ /h		
Air flow, with outlet filter	1xTK 3323.300: 71/82m ³ /h 2xTK 3323.300: 85/98m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.12/0.10	0.24/0.20	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	50/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 3325

Product number	TK 3325.230	TK3325.115	TK3325.024
Axial Fan	ZF-160S-230	ZF-160S-115	ZF-150B-024
Operating Voltage (V/Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	230/265m ³ /h		
Air flow, with outlet filter	1xTK 3325.300: 170/205m ³ /h 2xTK 3325.300: 200/230m ³ /h		
Axial fan	Automatic shielded pole motor		DC motor
Rated current (A)	0.26/0.20	0.51/0.42	0.42
Power (W)	37/33	40/35	14
Noise level (dB)	48/52		
working temperature	-10°C~+55°C		
Material	ABS		
Flammability rating	UL94-V0		
Protection class	IP 54		



TK 3326

Product number	TK 3326.230	TK3326.115
Axial Fan	ZF-260B-230	ZF-260B-115
Operating Voltage (V/Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m ³ /h	
Air flow, with outlet filter	1xTK 3326.300: 360/390m ³ /h 2xTK 3326.300: 440/495m ³ /h	
Axial fan	Capacitive Electric	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/77
Noise level (dB)	62/64	
working temperature	-10°C~+55°C	
Material	ABS	
Flammability rating	UL94-V0	
Protection class	IP 54	



TK 3326D

Product number	TK 3326.230-D	TK3326.115-D
Axial Fan	ZF-320B-230	ZF-320B-115
Operating Voltage (V/Hz)	230/50/60	115/50/60
Air flow, free blowing	1200/1350m ³ /h	1282.5m ³ /h
Axial fan	Capacitive Electric	
Rated current (A)	0.47/0.59	1.10/1.20
Power (W)	104/135	110/136
Noise level (dB)	68/70	
working temperature	-10°C~+55°C	
Material	ABS	
Flammability rating	UL94-V0	
Protection class	IP 54	



CZCS 860

Input specification	One temperature and humidity sensor
Humidity measurement range	0%RH~99%RH
Temperature measurement range	0~100°C
Basic error (humidity)	±3%RH
Basic error (Temperature)	±1°C
Resolution (humidity)	0.1%RH
Resolution (Temperature)	0.1°C
Operating Voltage	AC/DC 100V~250V
Power	40W: 280±10%ml/DAY (Temperature 30°C, humidity 90%RH environment) 60W: 350±10%ml/DAY (Temperature 30°C, humidity 90%RH environment)
Working environment	0~50°C, ≤90%RH (Non-corrosive occasions)
Dehumidifying space	≤1.5m ³

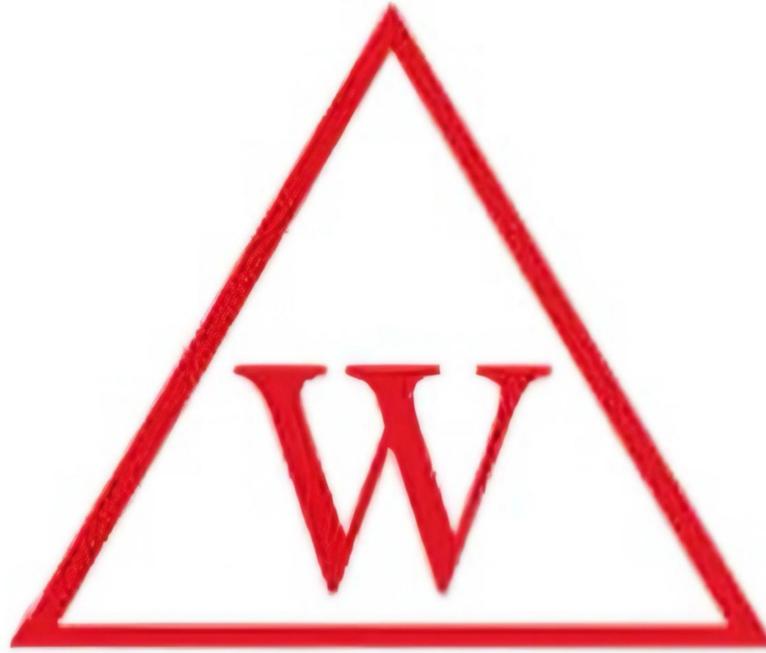
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