

Thermal Solution & Panel Accessories



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SOUTHERN ASIA COMMERCIAL JSC

Cabinet Ventilation

Heater/Thermostat/Hygrostat

Busbar System

Din rail/Wiring duct

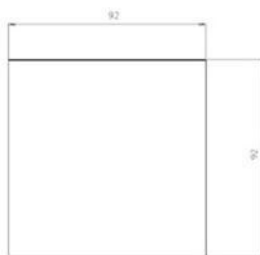
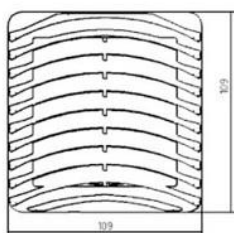
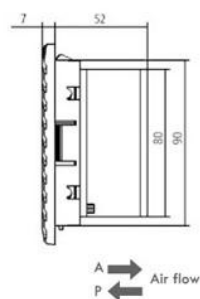
Cabinet Accessories



Cabinet Ventilation



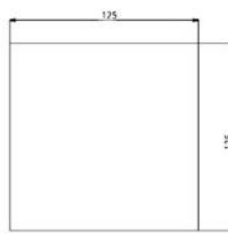
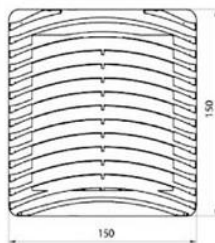
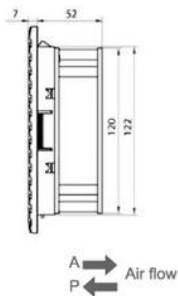
Fan and filter	Fan and filter	Exit filter	Installing section
FK 5521 ...	FK 5521.230	FK 5521.300	FK 5521 ...



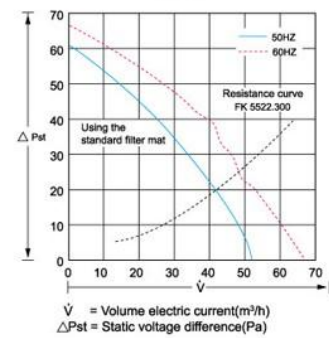
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TYPE	M.U	FK5521.300	FK5521.230	FK5521.115	FK5521.024
Voltage/phase/frequency	V-ph-Hz		220-240/1/50-60	110-120/1/50-60	24DC
Height/Width/Depth	mm	109×109×21	109×109×59	109×109×59	109×109×59
Power/Current	W/A		13/0.07-0.08	15/0.13-0.15	9.6/0.4
Temperature limits	°C		-10/+70	-10/+70	-10/+70
Protection degree	IP	55	55	55	55
Noise level	dB(A)		35	30	30
Air flow	m ³ /h		35	35	100
Air flow (+FK5521.300)	m ³ /h		24/27	24/27	70/70
Air flow direction			A/P	A/P	A/P



Fan and filter	Fan and filter	Exit filter	Installing section
FK 5522 ...	FK 5522.230	FK 5522.300	FK 5522...

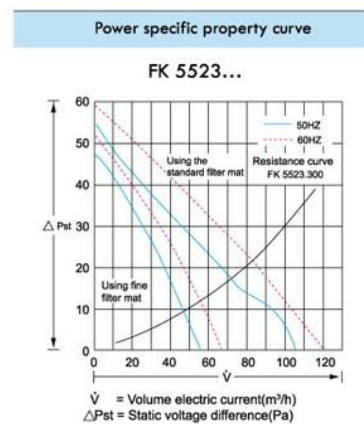
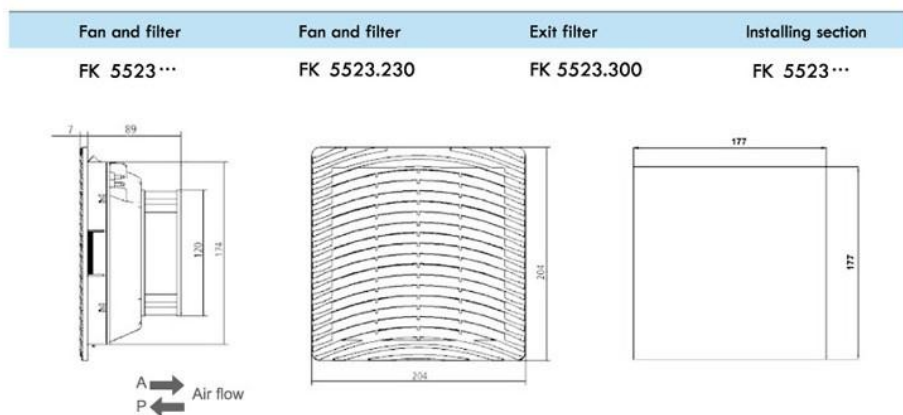


Power specific property curve
FK 5522...

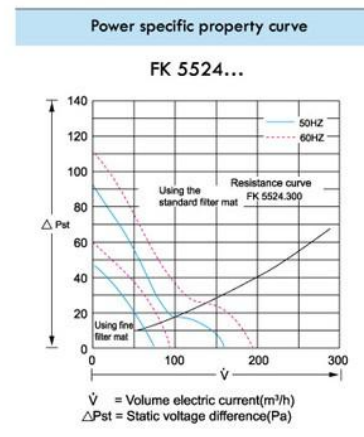
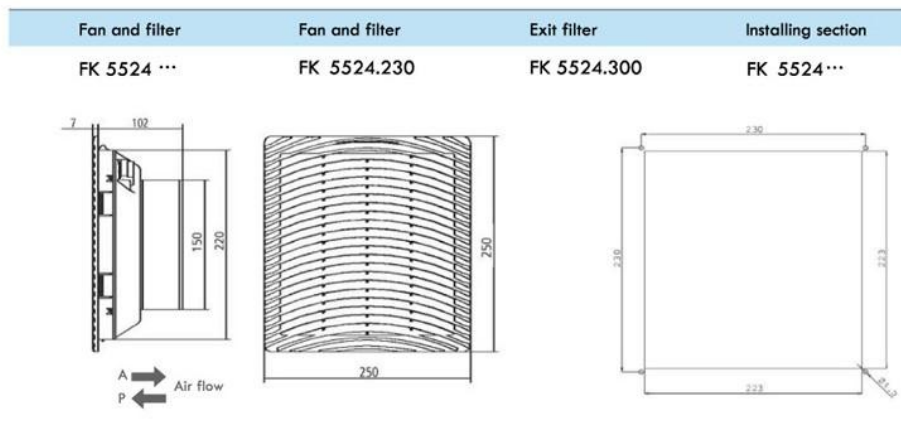


CODE		Exit filter	Fan and filter	Fan and filter	Fan and filter
TYPE	M.U	FK5522.300	FK5522.230	FK5522.115	FK5522.024
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/60	115/1/50-60	24DC
Height/Width/Depth	mm	150×150×21	150×150×59	150×150×59	150×150×59
Power/Current	W/A		22-30/0.1-0.14	22-26/0.21-0.24	7.2/0.43
Temperature limits	°C		-10/+70	-10/+70	-10/+70
Protection degree	IP	55	55	55	55
Noise level	dB(A)		45	45	45
Air flow	m³/h		67	67	67
Air flow (+FK5522.300)	m³/h		50/58	50/58	50/58
Air flow direction			A/P	A/P	A/P

IP55 FK55 series fan and filter

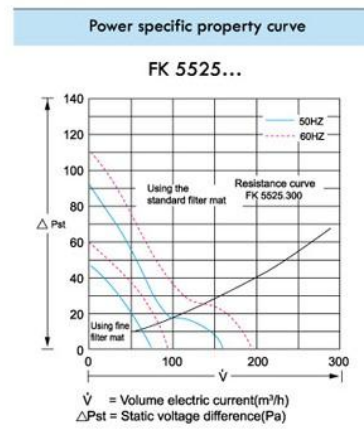
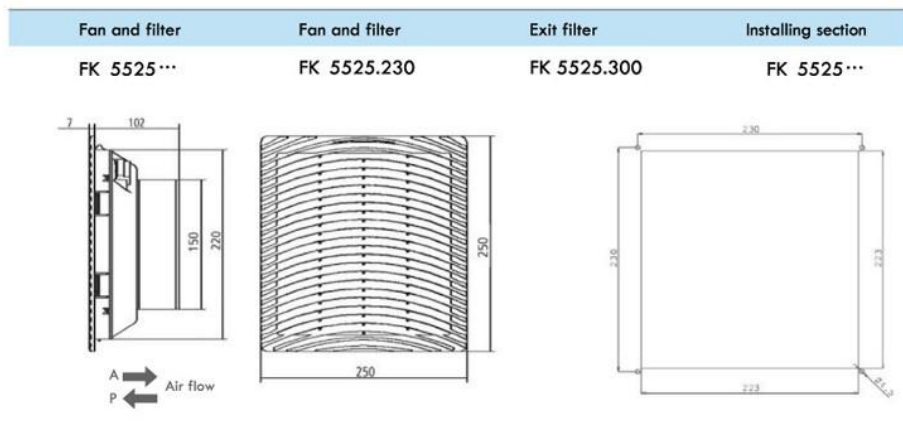


CODE		Exit filter	Fan and filter	Fan and filter	Fan and filter
TYPE	M.U	FK5523.300	FK5523.230	FK5523.115	FK5523.024
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/1/60	115/1/50-60	24DC
Height/Width/Depth	mm	204×204×25	204×204×96	204×204×96	204×204×96
Power/Current	W/A		22-30/0.1-0.14	22-26/0.21-0.24	7.2/0.43
Temperature limits	°C		-10/+70	-10/+70	-10/+70
Protection degree	IP	55	55	55	55
Noise level	dB(A)		45	45	45
Air flow	m³/h		105/120	105/120	105/120
Air flow (+FK5523.300)	m³/h		85/100	85/100	85/100
Air flow direction			A/P	A/P	A/P



CODE		Exit filter	Fan and filter	Fan and filter	Fan and filter
TYPE	M.U	FK5524.300	FK5524.230	FK5524.115	FK5524.024
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/60	115-1-50/60	24DC
Height/Width/Depth	mm	250×250×25	250×250×109	250×250×103	250×250×109
Power/Current	W/A		41-47/0.21-0.24	40-45/0.39-0.41	14/0.40
Temperature limits	°C		-10/+70	-10/+70	-20/+70
Protection degree	IP	55	55	55	55
Noise level	dB(A)		50	50	50
Air flow	m ³ /h		160/180	160/180	160/180
Air flow (+FK5524.300)	m ³ /h		120/150	120/150	120/150
Air flow direction			A/P	A/P	A/P

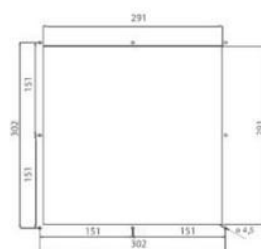
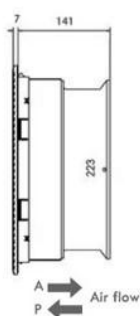
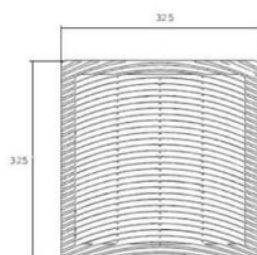
IP55 FK55 series fan and filter



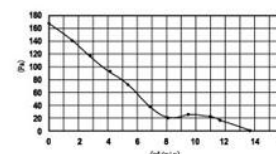
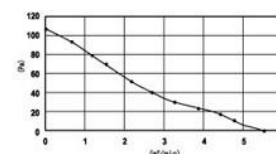
CODE		Exit filter	Fan and filter	Fan and filter	Fan and filter
TYPE	M.U	FK5525.300	FK5525.230	FK5525.115	FK5525.024
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/60	115-1-50/60	24DC
Height/Width/Depth	mm	250×250×25	250×250×109	250×250×103	250×250×109
Power/Current	W/A		46-59/0.28-0.33	42-47/0.50	15/0.40
Temperature limits	°C		-10/+70	-10/+70	-20/+70
Protection degree	IP	55	55	55	55
Noise level	dB(A)		52	52	52
Air flow	m ³ /h		230/265	230/265	230/265
Air flow (+FK5525.300)	m ³ /h		170/230	170/230	170/230
Air flow direction			A/P	A/P	A/P



Fan and filter	Fan and filter	Exit filter	Installing section
FK 5526 ...	FK 5526.230	FK 5526.300	FK 5526...

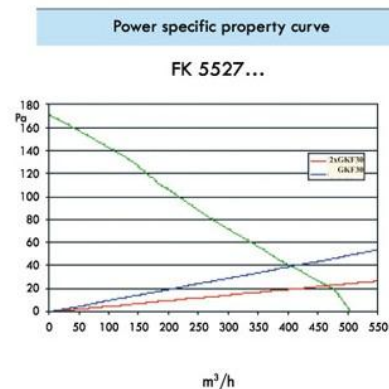
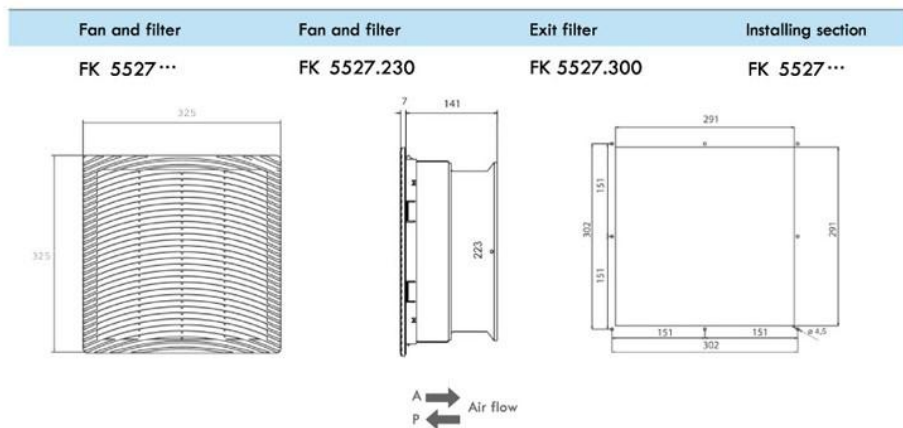


Power specific property curve
FK 5526...



CODE		Exit filter	Fan and filter	Fan and filter
TYPE	M.U	FK5526.300	FK5526.230	FK5526.115
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/1/60	115/1/50-60
Height/Width/Depth	mm	325×325×25	325×325×141.5	325×325×141.5
Power/Current	W/A		63/0.29	61/0.61
Temperature limits	°C		-10/+80	-10/+80
Protection degree	IP	55	55	55
Noise level	dB(A)		59	59
Air flow	m³/h		550/600	550/600
Air flow (+FK5526.300)	m³/h		360/490	360/490
Air flow direction			A	A

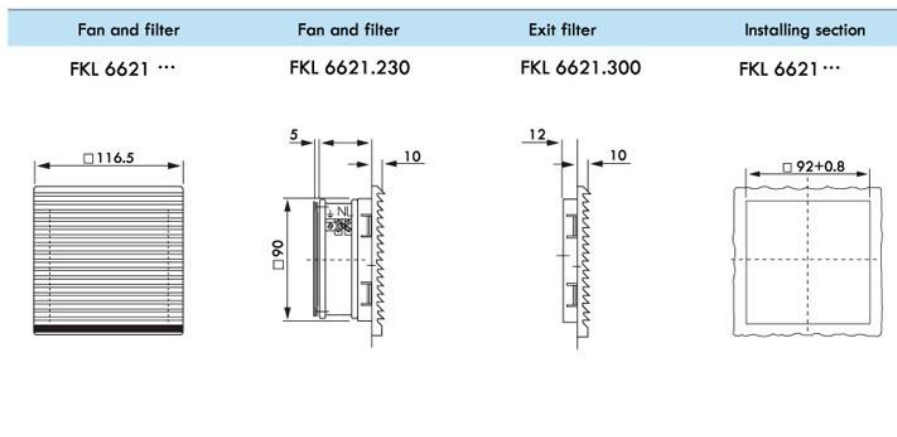
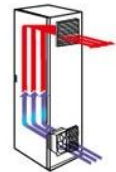
IP55 FK55 series fan and filter



CODE		Exit filter	Fan and filter	Fan and filter
TYPE	M.U	FK5527.300	FK5527.230	FK5527.115
Voltage/Phase/Frequency	V-ph-Hz		230-1-50/1/60	115/1/50-60
Height/Width/Depth	mm	325×325×25	325×325×140	325×325×140
Power/Current	W/A		50/0.26	50/0.46
Temperature limits	°C		-10/+60	-10/+60
Protection degree	IP	55	55	55
Noise level	dB(A)		59	59
Air flow	m ³ /h		650/800	650/800
Air flow (+FK5527.300)	m ³ /h		500/600	500/600
Air flow direction			A	A

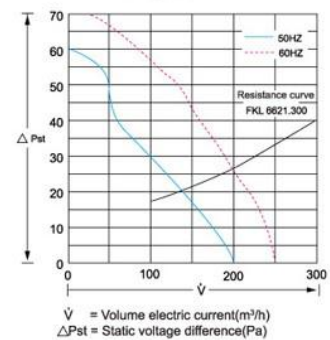


TYPE FKL6621.300



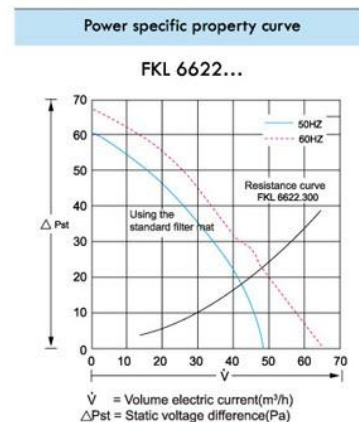
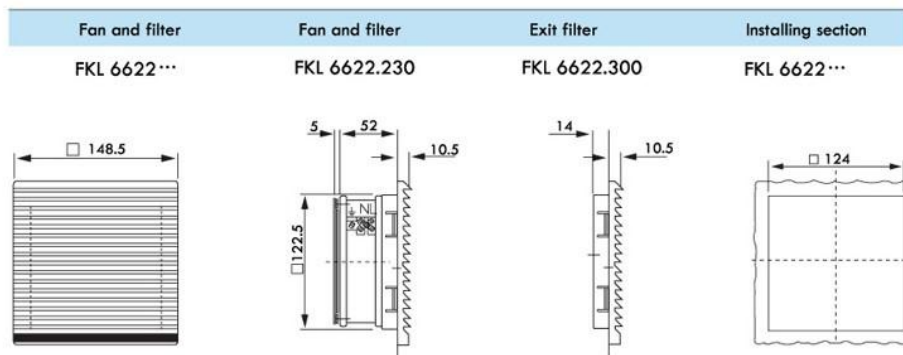
Power specific property curve

FKL 6621...



Fan and filter	FKL6621.230	FKL6621.115	FKL6621.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	20/25m³/h		
Air flow With Exit filter	1×FKL 6621.300:15/18m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.08A	0.14A	0.18A
Power	18W/15W	16W/14W	4.3W
Noise level	37/41dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FKL 6621.300	
Contact us if special voltage required			

FKL6622 series fan and filter



Fan and filter	FKL6622.230	FKL6622.115	FKL6622.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	55/66m³/h		
Air flow With Exit filter	1×FKL 6622.300:43/50m³/h 2×FKL 6622.300:48/55m³/h 1×FKL 6623.300:48/55m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.14A/0.10A	0.24A/0.21A	0.30A
Power	22W/30W	22W/26W	7.2W
Noise level	41/46dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FKL 6622.300	
Contact us if special voltage required			



TYPE FKL6623.300



Fan and filter

FKL 6623 ...

Fan and filter

FKL 6623.230

Exit filter

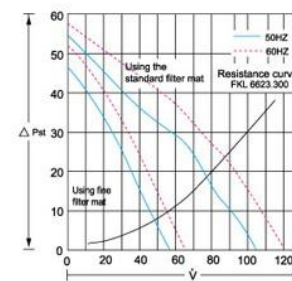
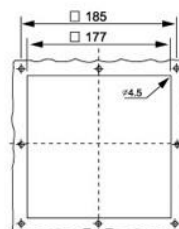
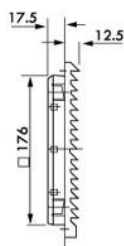
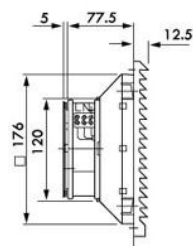
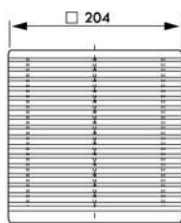
FKL 6623.300

Installing section

FKL 6623...

Power specific property curve

FKL 6623...



$\dot{V}$ = Volume electric current (m³/h)
 ΔP_{at} = Static voltage difference (Pa)

Fan and filter	FKL6623.230	FKL6623.115	FKL6623.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	105/120m³/h		
Air flow With Exit filter	1×FKL 6623.300:71/82m³/h 2×FKL 6623.300:85/98m³/h 1×FKL 6625.300:78/90m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.14A/0.10A	0.24A/0.21A	0.30A
Power	22W/30W	22W/26W	7.2W
Noise level	46/49dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FKL6623.300	
Contact us if special voltage required			

FKL6624 series fan and filter



TYPE FKL6624.300



Fan and filter

FKL 6624...

Fan and filter

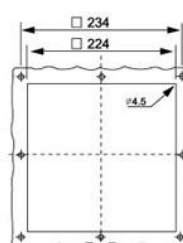
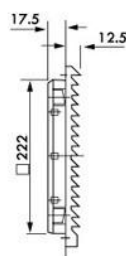
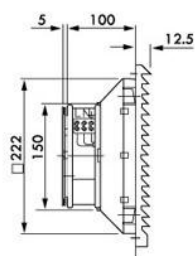
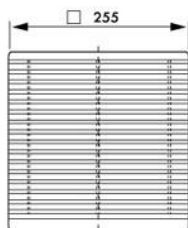
FKL 6624.230

Exit filter

FKL 6624.300

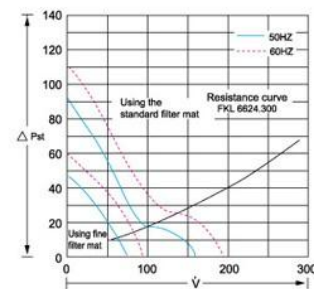
Installing section

FKL 6624...



Power specific property curve

FKL 6624...



$\dot{V}$ = Volume electric current (m³/h)
 ΔP_{st} = Static voltage difference (Pa)

Fan and filter	FKL6624.230	FKL6624.115	FKL6624.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	160/180m³/h		
Air flow With Exit filter	1×FKL 6624.300:95/115m³/h 2×FKL 6624.300:140/165m³/h 1×FKL 6626.300:130/155m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.26A/0.21A	0.42A/0.39A	0.58A
Power	47W/59W	43W/48W	14W
Noise level	52/54dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FKL6625.300	
Contact us if special voltage required			



TYPE FKL6625.300



Fan and filter

FKL 6625 ...

Fan and filter

FKL 6625.230

Exit filter

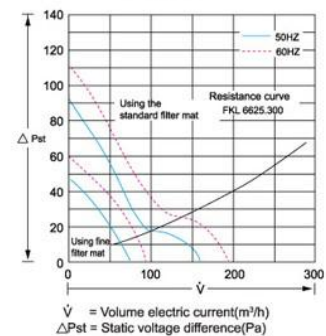
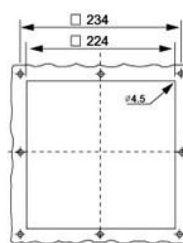
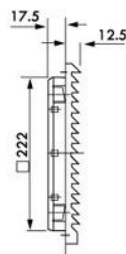
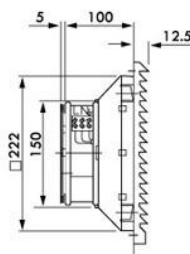
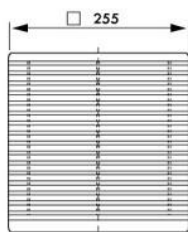
FKL 6625.300

Installing section

FKL 6625 ...

Power specific property curve

FKL 6625...



Fan and filter	FKL6625.230	FKL6625.115	FKL6625.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	230/265m³/h		
Air flow With Exit filter	1×FKL 6625.300:170/205m³/h 2×FKL 6625.300:200/230m³/h 1×FKL 6626.300:190/215m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.33A/0.28A	0.56A/0.50A	0.58A
Power	46W/59W	42W/47W	14W
Noise level	54/56dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FKL6625.300	
Contact us if special voltage required			

FKL6626 series fan and filter



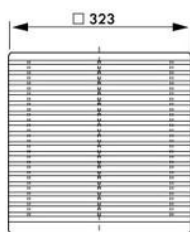
TYPE FKL6626.300



FKL6626.230 Fan and filter

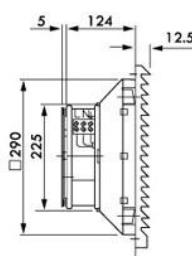
Fan and filter

FKL 6626...



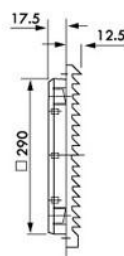
Fan and filter

FKL 6626.230



Exit filter

FKL 6626.300



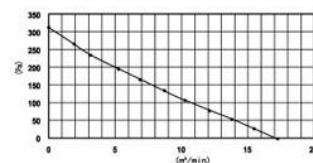
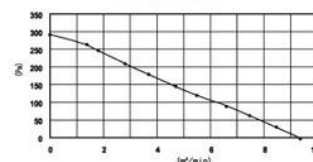
Installing section

FKL 6626...



Power specific property curve

FKL 6626...



Fan and filter	FKL6626.230	FKL6626.115
Voltage/Frequency	230/50/60	115/50/60
Air flow, free blowing	500/560m³/h	
Air flow With Exit filter	1×FKL 6626.300:360/390m³/h 2×FKL 6626.300:440/495m³/h	
Axial fan	Capacitor operated	
Rated current	0.29A/0.34A	0.61A/0.63A
Power	63W/79W	61W/71W
Noise level	59/61dB(A)	
Scope of temperature	-10°C~+55°C	
Exit filter	Type	FKL6626.300
Contact us if special voltage required		



TYPE FKL6626.300



FKL6626.230 Fan and filter

Fan and filter

FKL 6626 ...

Fan and filter

FKL 6626.230-D

Exit filter

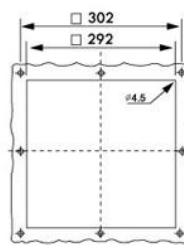
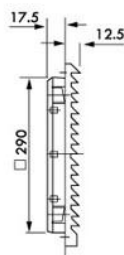
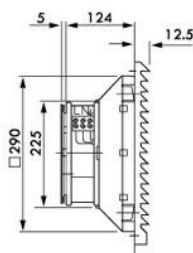
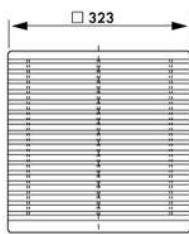
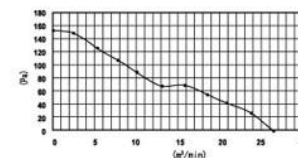
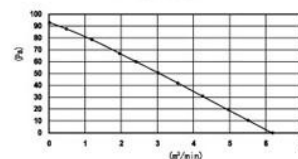
FKL 6626.300

Installing section

FKL 6626...

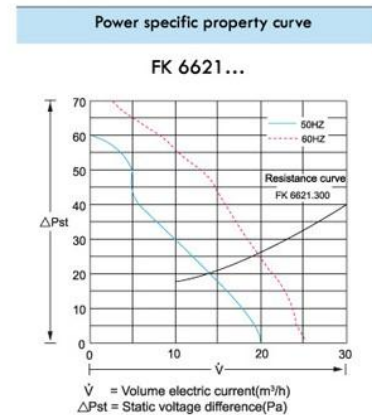
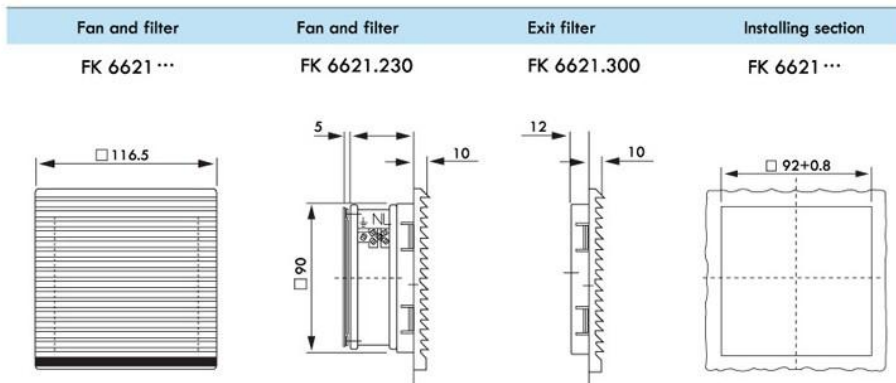
Power specific property curve

FKL 6626...

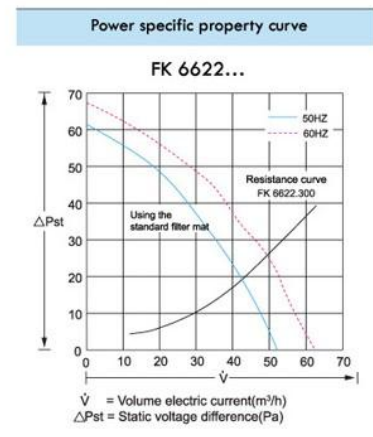
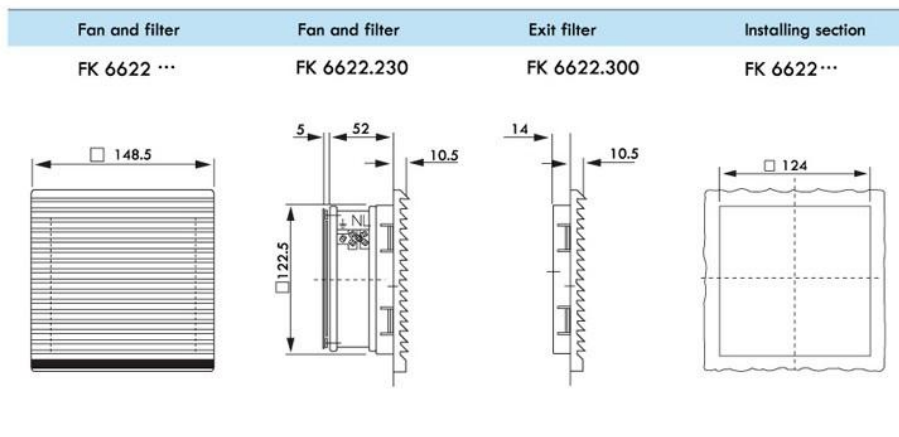


Fan and filter	FKL6626.230-D	FKL6626.115-D
Voltage/Frequency	230/50/60	115/50/60
Air flow, free blowing	1200/1350m³/h	
Air flow With Exit filter	1×FKL 6626.300:360/390m³/h 2×FKL 6626.300:440/495m³/h	
Axial fan	Capacitor operated	
Rated current	0.51A/0.70A	0.97A/1.36A
Power	115W/160W	110W/155W
Noise level	59/68dB(A)	
Scope of temperature	-10°C~+55°C	
Exit filter	Type	FKL6626.300
Contact us if special voltage required		

FK6621series fan and filter



Fan and filter	FK6621.230	FK6621.115	FK6621.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	20/25m³/h		
Air flow With Exit filter	1×FK 6621.300:15/18m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.08A	0.16A	0.18A
Power	15W/18W	14W/16W	4.3W
Noise level	41/46dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FK6621.300	
Contact us if special voltage required			



Fan and fiter	FK6622.230	FK6622.115	FK6622.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	55/66m³/h		
Air flow With Exit filter	1×FK 6622.300:43/50m³/h 2×FK 6622.300:48/55m³/h 1×FK 6623.300:48/55m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.14A 0.10A	0.24A 0.21A	0.42A
Power	22W/30W	22W/26W	7.2W
Noise level	41/46dB(A)		
Scope of temperature	-10°C~-+55°C		
Exit filter	Type	FK6622.300	
Contact us if special voltage required			

FK6623 series fan and filter



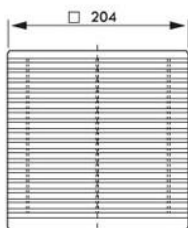
TYPE FK6623.300



FK6623.230 Fan and filter

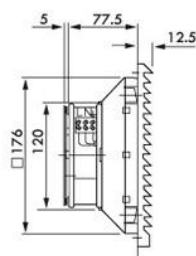
Fan and filter

FK 6623...



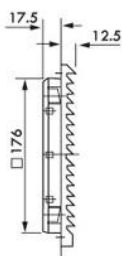
Fan and filter

FK 6623.230



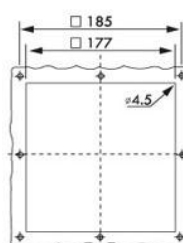
Exit filter

FK 6623.300



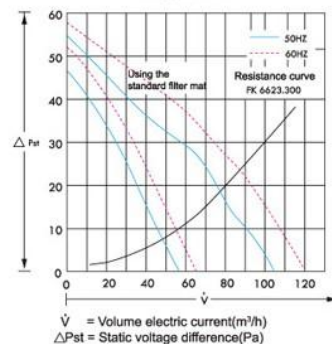
Installing section

FK 6623...

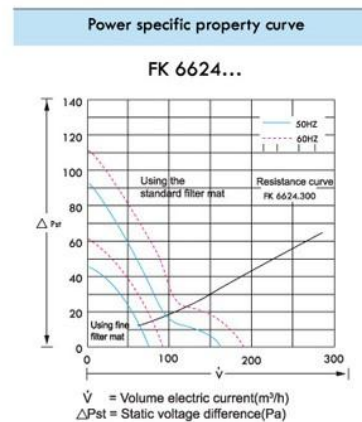
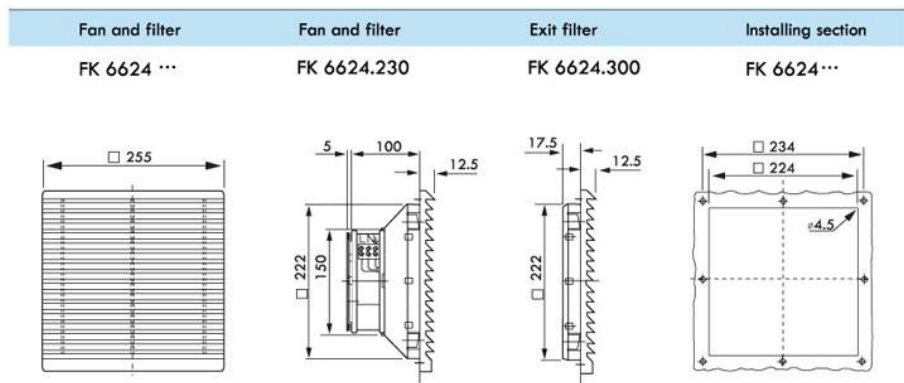


Power specific property curve

FK 6623...



Fan and filter	FK6623.230	FK6623.115	FK6623.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	105/120m³/h		
Air flow With Exit filter	1×FK 6623.300:71/82m³/h 2×FK 6623.300:85/98m³/h 1×FK 6625.300:78/90m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.14A 0.10A	0.24A 0.21A	0.42A
Power	22W/30W	22W/26W	7.2W
Noise level	41/46dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FK6623.300	
Contact us if special voltage required			



Fan and fiter	FK6624.230	FK6624.115	FK6624.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	160/180m³/h		
Air flow With Exit filter	1×FK 6624.300:95/115m³/h 2×FK 6624.300:140/165m³/h 1×FK 6626.300:130/155m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.26A/0.21A	0.42A/0.39A	0.58A
Power	41W/47W	40W/45W	14W
Noise level	46/49dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FK6625.300	
Contact us if special voltage required			

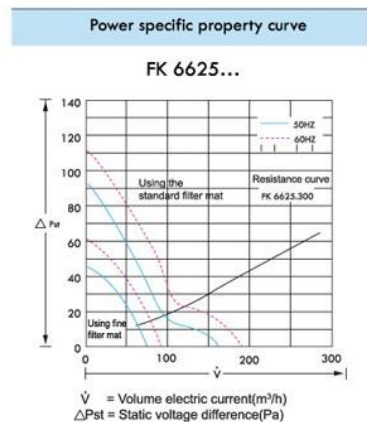
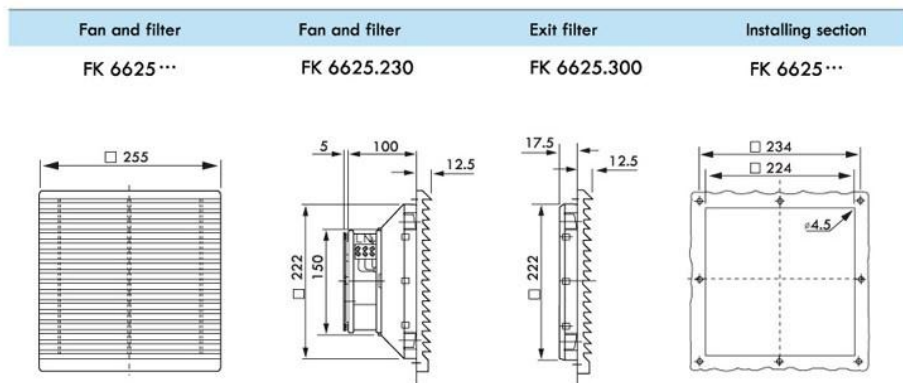
FK6625 series fan and filter



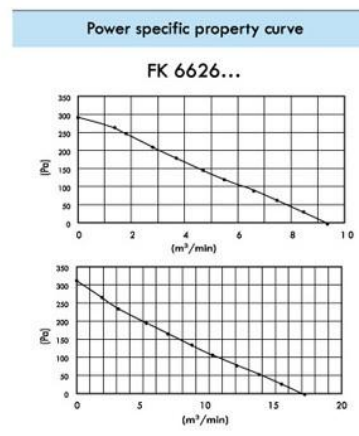
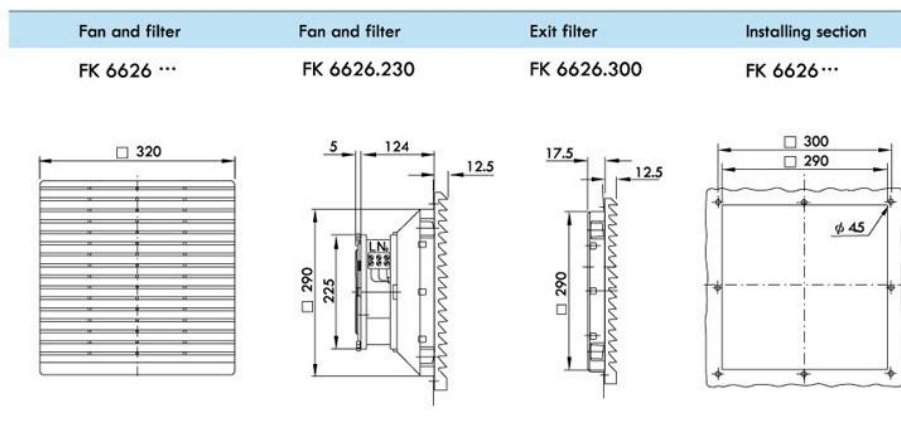
FK6625.230 Fan and filter



TYPE FK6625.300



Fan and filter	FK6625.230	FK6625.115	FK6625.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	230/265m³/h		
Air flow With Exit filter	1×FK 6625.300:170/205m³/h 2×FK 6625.300:200/230m³/h 1×FK 6626.300:190/215m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.33A/0.28A	0.56A/0.50A	0.58A
Power	46W/59W	42W/47W	14W
Noise level	54/56dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FK6625.300	
Contact us if special voltage required			



Fan and filter	FK6626.230	FK6626.115
Voltage/Frequency	230/50/60	115/50/60
Air flow, free blowing	500/560m³/h	500/560m³/h
Air flow With Exit filter	1×FK 6626.300:360/390m³/h 2×FK 6626.300:440/495m³/h	
Axial fan	Capacitor operated	
Rated current	0.29A/0.35A	0.58A/0.70A
Power	63W/79W	61W/71W
Noise level	59/61dB(A)	
Scope of temperature	-10°C~+55°C	
Exit filter	Type	FK6626.300
Contact us if special voltage required		

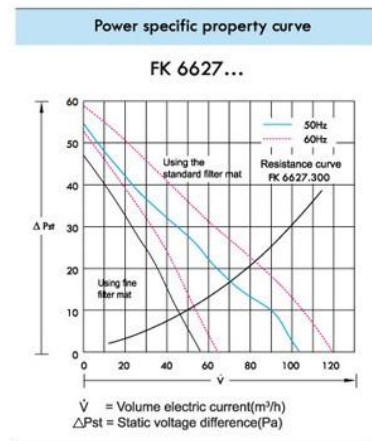
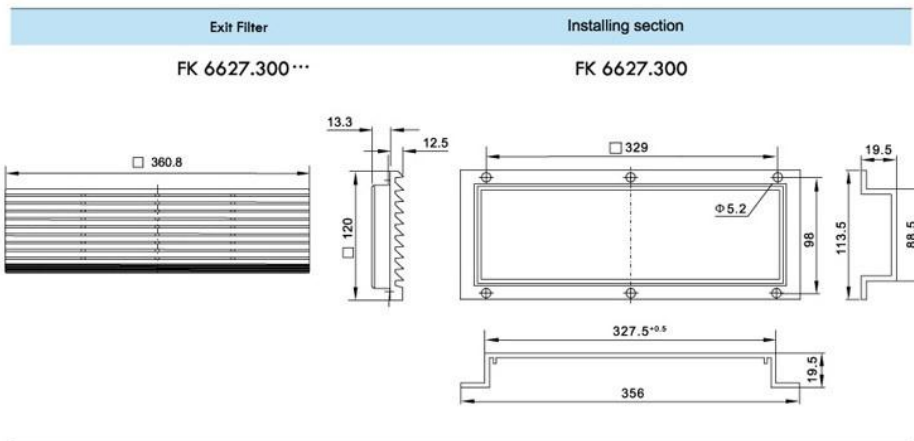
FK6627 exit filter

Functions

The big power axial fan can be installed in the way of "blow" or "pump". The rain-proofing function of ventilation cascade could prevent not only mechanical damage but also the entry of humidity. According to the EN60529/10.91, the protection can reach level IP54.

A spray-proof cover will make the protection level IP55. The filter mat can be easily changed by the trough-shaped handle on the leaf paling.

The non-woven fibre filter mats can filter dust grains of over 10 micrometers while the fine filter mats can filter dust grains of below 10 micrometers.



Ultra-thin fan and filter

Type FK6628

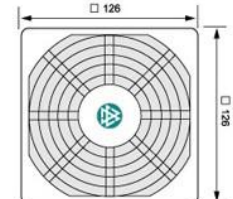
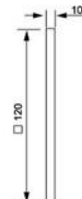
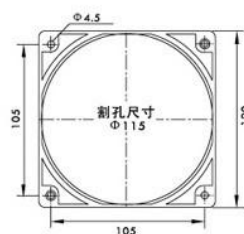
Fan and Filter

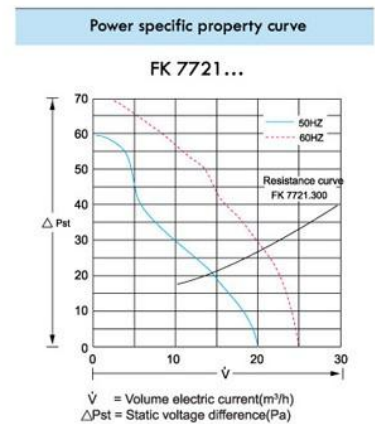
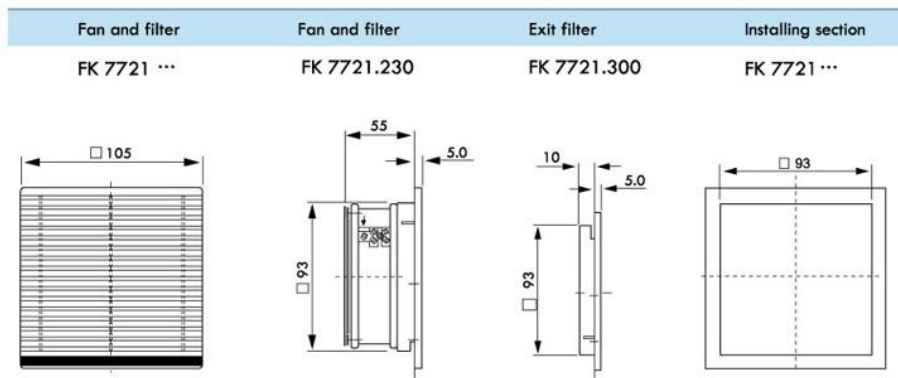
Type: FK6628.230

The filter fan is suitable for discharging high temperature load. The premise of using is the temperature of environment should be lower than the one of the inside case

Exit Filter

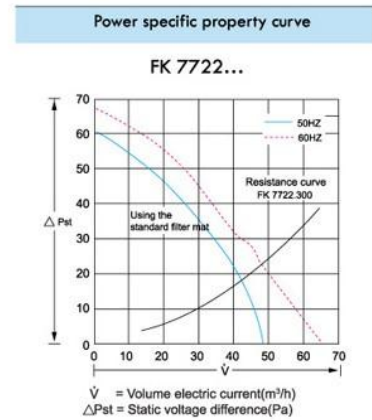
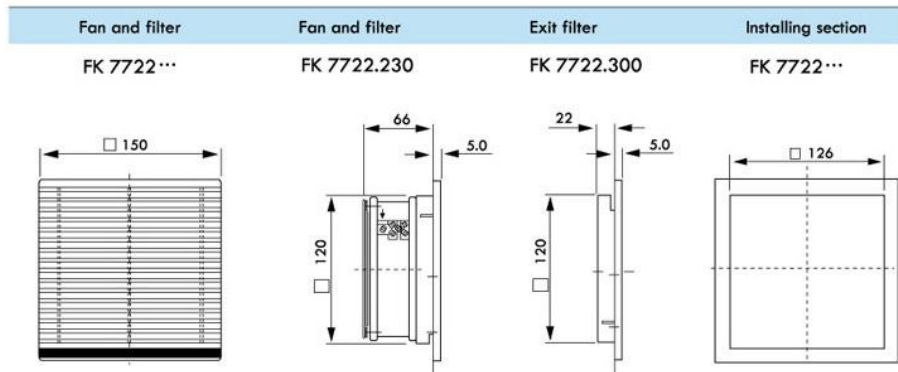
Type: FK6628.300





Fan and filter	FK7721.230	FK7721.115	FK7721.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	20/25m³/h		
Air flow With Exit filter	1×FK 7721.300:15/18m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.07-0.09A	0.13-0.16A	0.18A
Power	15W/12W	15W/12W	4.3W
Noise level	41/46dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FK7721.300	
Contact us if special voltage required			

FK7722 series fan and filter



Fan and filter	FK7722.230	FK7722.115	FK7722.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	55/66m³/h		
Air flow With Exit filter	1×FK 7722.300.43/50m³/h 2×FK 7722.300.48/55m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.14A/0.10A	0.24A/0.21A	0.42A
Power	22W/30W	22W/26W	7.2W
Noise level	46/49dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FK7722.300	
Contact us if special voltage required			



FK 7724.230 Fan and filter

FK 7724.300 Exit filter

TYPE FK7724.300



Fan and filter

FK 7724 ...

Fan and filter

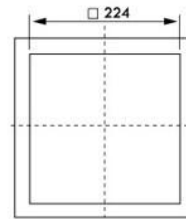
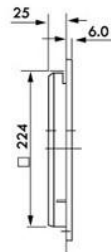
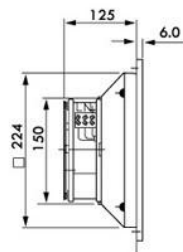
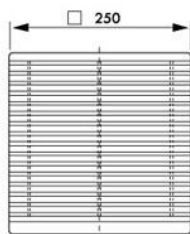
FK 7724.230

Exit filter

FK 7724.300

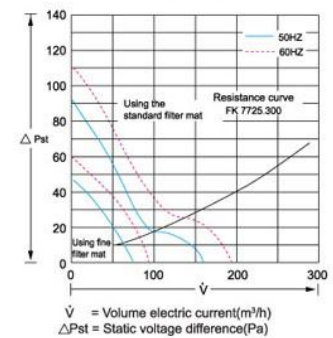
Installing section

FK 7724 ...



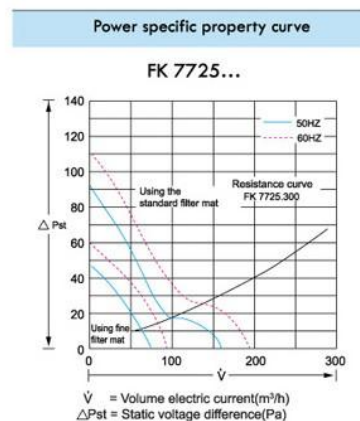
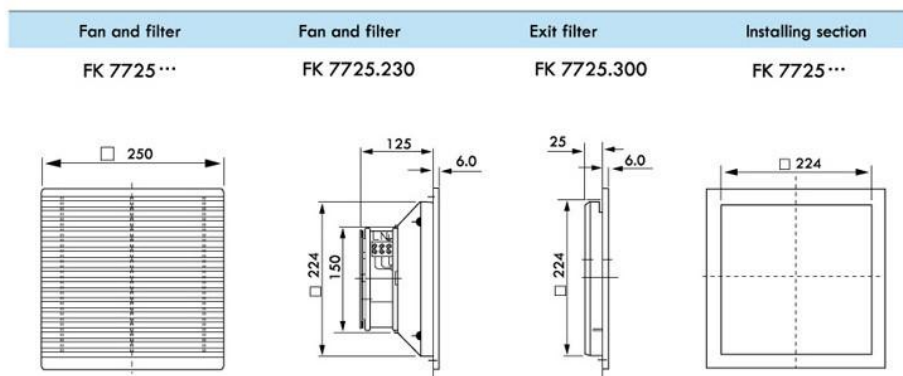
Power specific property curve

FK 7724...



Fan and filter	FK7724.230	FK7724.115	FK7724.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	160/180m³/h		
Air flow With Exit filter	1×FK 7725.300:95/115m³/h 2×FK 7725.300:140/165m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.26A/0.21A	0.42A/0.39A	0.58A
Power	47W/59W	43W/48W	14W
Noise level	54/56dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FK7724.300	
Contact us if special voltage required			

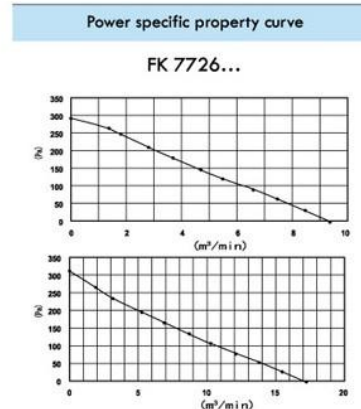
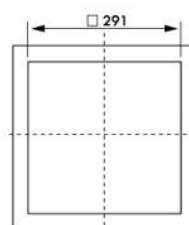
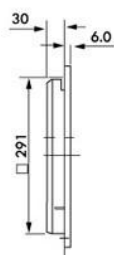
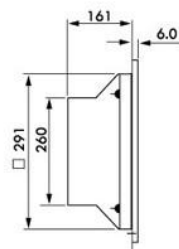
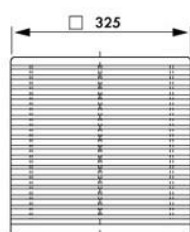
FK7725 series fan and filter



Fan and filter	FK7725.230	FK7725.115	FK7725.024
Voltage/Frequency	230/50/60	115/50/60	24(DC)
Air flow,free blowing	230/265m³/h		
Air flow With Exit filter	1×FK 7725.300:170/205m³/h 2×FK 7725.300:200/230m³/h		
Axial fan	Self-start shielded pole motor		DC motor
Rated current	0.33A/0.28A	0.56A/0.50A	0.58A
Power	46W/59W	42W/47W	14W
Noise level	54/56dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FK7725.300	
Contact us if special voltage required			

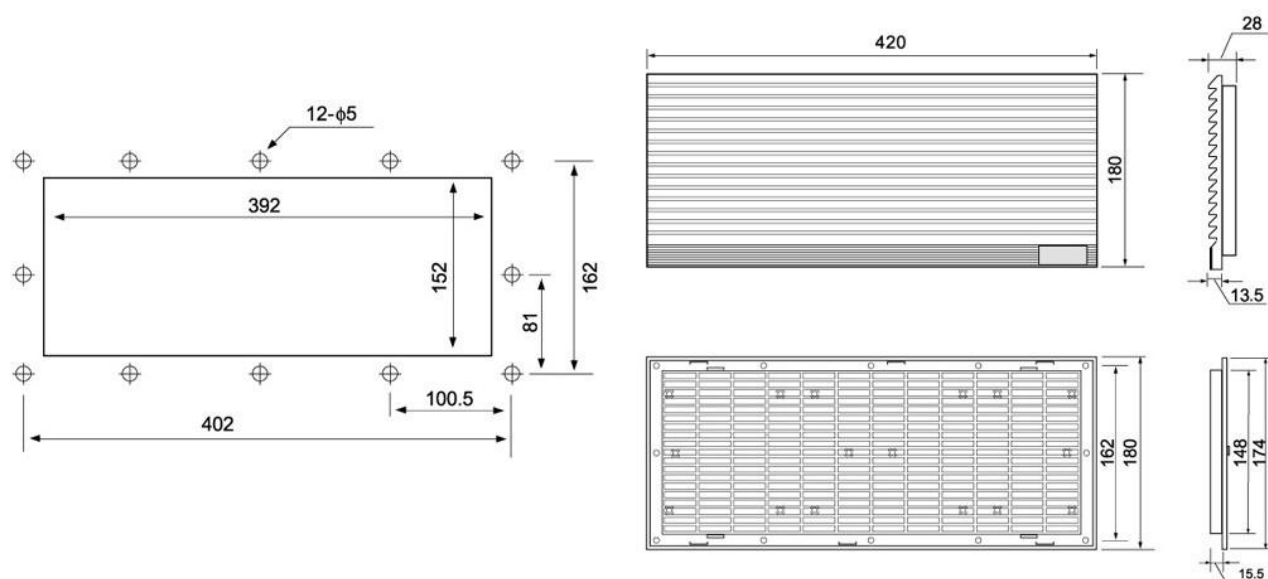


Fan and filter	Fan and filter	Exit filter	Installing section
FK 7726 ...	FK 7726.230	FK 7726.300	FK 7726 ...



Fan and filter	FK7726.230	FK7726.115
Voltage/Frequency	230/50/60	115/50/60
Air flow, free blowing	1020/1050m³/h	
Air flow With Exit filter	1×FK 7726.300:550/580m³/h 2×FK 7726.300:620/685m³/h	
Axial fan	Capacitor operated	
Rated current	0.55A/0.60A	1.40A/1.70A
Power	120W/138W	150W/180W
Noise level	68/71dB(A)	
Scope of temperature	-10°C~+55°C	
Exit filter	Type	FK7726.300
Contact us if special voltage required		

FB9807 series fan and filter



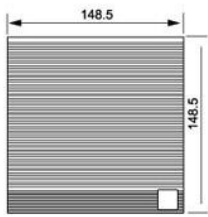
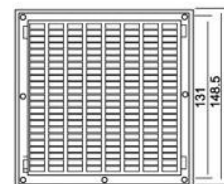
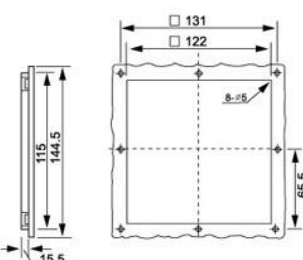
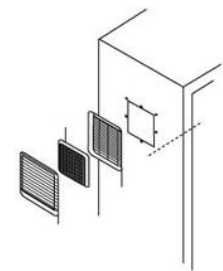
This filter can install 2 pieces F2E-162B-230, or 3 pieces F2E-120B-230

Model	Dimension	Air flow	Wind speed	dust-removing
FB9807	420×180×13.5(mm)	100.0m ³ /MIN	2.0M/SEC	80%

Damage range	Temperature	Material	IP
6.7~20 INCH-H ₂ O	Indoor -10℃+85℃	ABS (Anti-firing,UV) 94V-0 UL	IP44

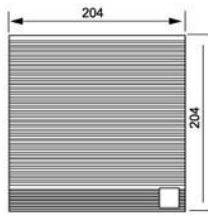
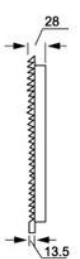
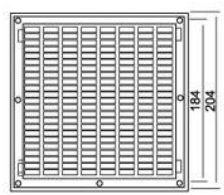
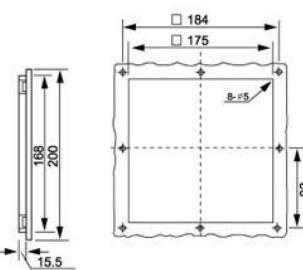
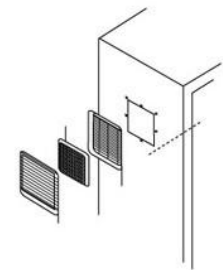


Item	Exit filter	Fan and filter	
Type	FB9803	FB9803-230	FB9803-115
Voltage/Frequency		230/50/60	115/50/60
Air flow,free blowing	105/120m³/h		
Air flow With Exit filter	1 × FB 9803: 71/82 m³/h 2 × FB 9803: 85/98 m³/h		
Axial fan	Self-start shielded pole motor		
Rated current		0.14A 0.10A	0.24A 0.21A
Power		22/30W	22/26W
Noise level	41/46dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FB9803	
Contact us if special voltage required			

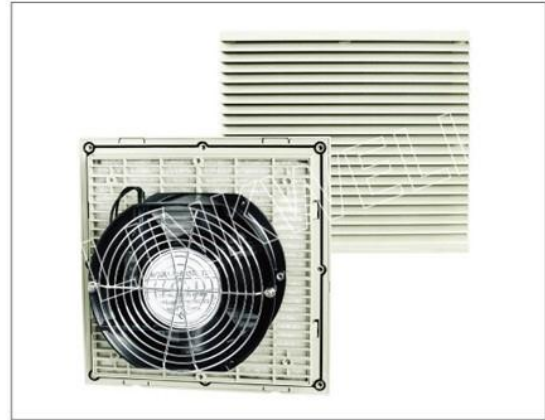
Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FB 9803 ...	FB 9803.230	FB 9803.300	FB 9803...	FB 9803...
				

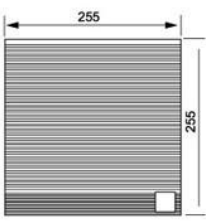
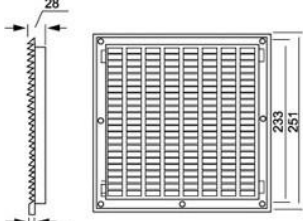
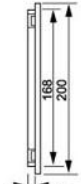
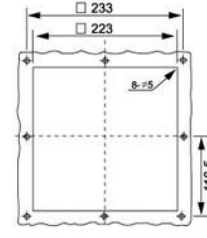
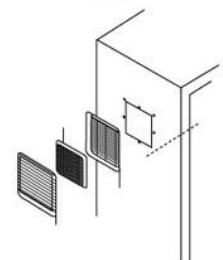


Item	Exit filter	Fan and filter	
Type	FB9804	FB9804-230	FB9804-115
Voltage/Frequency		230/50/60	115/50/60
Air flow,free blowing	120/128m³/h		
Air flow With Exit filter	1 × FB 9804: 71/82 m³/h 2 × FB 9804: 85/98 m³/h		
Axial fan	Self-start shielded pole motor		
Rated current		0.14A 0.10A	0.24A 0.21A
Power		22/30W	22/26W
Noise level	41/46dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FB9804	
Contact us if special voltage required			

Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FB 9804 ...	FB 9804.230	FB 9804.300	FB 9804...	FB 9804...
				

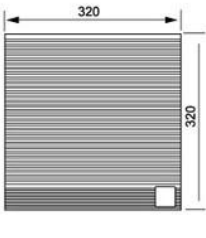
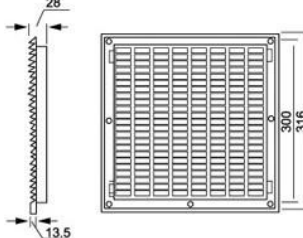
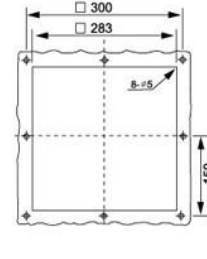
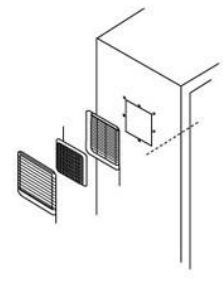
Item	Exit filter	Fan and filter	
Type	FB9805	FB9805-230	FB9805-115
Voltage/Frequency		230/50/60	115/50/60
Air flow,free blowing	190/220m³/h		
Air flow With Exit filter	1 × FB 9805: 170/205 m³/h 2 × FB 9805: 210/235 m³/h		
Axial fan	Self-start shielded pole motor		
Rated current		0.21A 0.26A	0.39A 0.42A
Power		47/59W	43/48W
Noise level	52/54dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FB9805	
Contact us if special voltage required			



Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FB 9805 ...	FB 9805.230	FB 9805.300	FB 9805...	FB 9805...
				

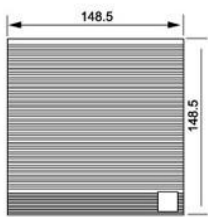
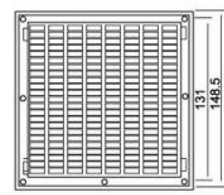
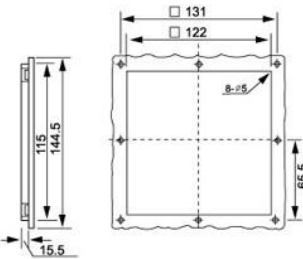
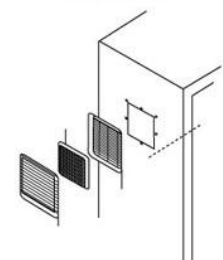
Item	Exit filter	Fan and filter	
Type	FB9806	FB9806-230	FB9806-115
Voltage/Frequency		230/50/60	115/50/60
Air flow,free blowing	960/1020m³/h		
Air flow With Exit filter	1 × FB 9806: 185/205 m³/h 2 × FB 9806: 215/230 m³/h		
Axial fan	Self-start shielded pole motor		
Rated current		0.16A 0.26A	0.36A 0.46A
Power		50W	50W
Noise level	59/61dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FB9806	
Contact us if special voltage required			



Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FB 9806 ...	FB 9806.230	FB 9806.300	FB 9806...	FB 9806...
				

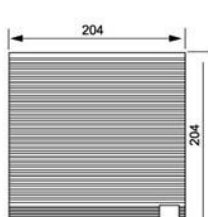
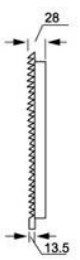
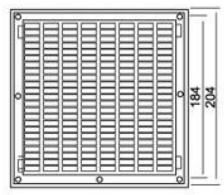
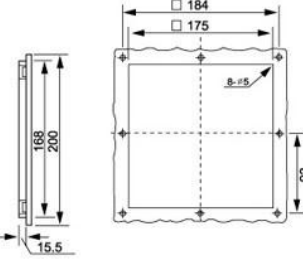
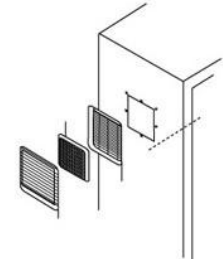


Item	Exit filter	Fan and filter	
Fan and filter	FBL9803	FBL9803-230	FBL9803-115
Designed working voltage V/H		230/50/60	115/50/60
Air flow,free blowing	105/120m³/h		
Air flow With Exit filter	1 × FBL 9803: 71/82 m³/h 2 × FBL 9803: 85/98 m³/h		
Axial fan	Self-start screened magnetic pole motor		Direct current motor
Rated current		0.12A 0.11A	0.24A 0.23A
Power		19W/18W	19W/18W
Noise level	46/49dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FBL9803	
It is possible to write to our company to consult if needing special voltage.			

Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FBL 9803 ...	FBL 9803.230	FBL 9803.300	FBL 9803...	FBL 9803...
				



Item	Exit filter	Fan and filter	
Fan and filter		FBL9804-230	FBL9804-115
Designed working voltage V/H		230/50/60	115/50/60
Air flow,free blowing	120/128m³/h		
Flux of air equip filter exported Include filtering pad of standard	1 × FBL 9804: 71/82 m³/h 2 × FBL 9804: 85/98 m³/h		
Axial fan	Self-start screened magnetic pole motor		Direct current motor
Rated current		0.12A 0.11A	0.24A 0.23A
Power		19W/18W	19W/18W
Noise level	46/49dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FBL9804	
It is possible to write to our company to consult if needing special voltage.			

Fan and filter	Fan and filter	Exit filter	Installing section	Installing method
FBL 9804 ...	FBL 9804.230	FBL 9804.300	FBL 9804...	FBL 9804...
				

IP54 new FBL series fan and filter

Item	Exit filter	Fan and filter	
Fan and filter	FBL9805	FBL9805-230	FBL9805-115
Designed working voltage V/H		230/50/60	115/50/60
Air flow,free blowing	190/220m³/h		
Flux of air equip filter exported Include filtering pad of standard	1 × FBL 9805: 170/205 m³/h 2 × FBL 9805: 210/235 m³/h		
Axial fan	Self-start screened magnetic pole motor		Direct current motor
Rated current		0.28A 0.35A	0.48A 0.55A
Power		41W/38W	45W/52W
Noise level	54/56dB(A)		
Scope of temperature	-10°C~+55°C		
Exit filter	Type	FBL9805	
It is possible to write to our company to consult if needing special voltage.			



Fan and filter	Fan and filter	Exit filter	Installing section
FKL 9805 ...	FKL 9805.230	FKL 9805.300	FKL 9805 ...

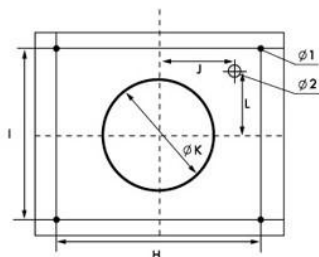
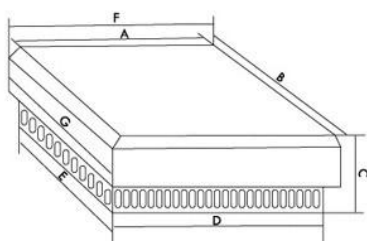
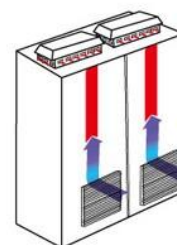
Installing method
FKL 9805...

Item	Exit filter	Fan and filter	
Fan and filter	FBL9806	FBL9806-230	FBL9806-115
Designed working voltage V/H		230/50/60	115/50/60
Air flow,free blowing	960/1020m³/h		
Flux of air equip filter exported Include filtering pad of standard	1 × FBL 9806: 185/205 m³/h 2 × FBL 9806: 215/230 m³/h		
Axial fan	Self-start screened magnetic pole motor		Direct current motor
Rated current		0.16A 0.22A	0.36A 0.40A
Power		31W/33W	40W/48W
Noise level	59/61dB(A)		
Scope of temperature	-10℃~+55℃		
Exit filter	Type	FBL9806	
It is possible to write to our company to consult if needing special voltage.			

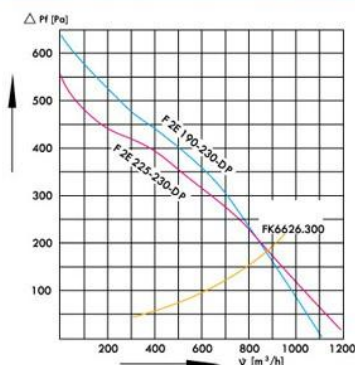


Fan and filter	Fan and filter	Exit filter	Installing section
FKL 9806 ...	FKL 9806.230	FKL 9806.300	FKL 9806 ...

Installing method
FKL 9806...



Power specific property curve



Interior

The precondition to use the top fan is that the ambient temperature should be lower than the temperature required in the cabinet.

Function

The high-power centrifugal top fan can vent the high heat load by the greatest degree. The centrifugal fan not only can avoid the vortex vented by the general shield magnetic fan, but also can reduce the noise caused by the friction of air. The FK series of Exit Filter can be used in the inlet in order to prevent from entering the humidity and dust.

Design

The centrifugal top fan is larruping. It is handsome and it has the good function and reasonable structure. It also doesn't take up the interior space. It can well satisfy requirement of the present market with it's unique design.

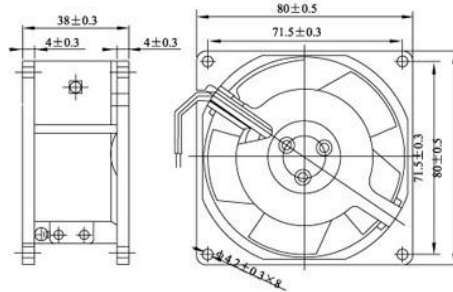
Type	A/B	C	D/E	F/G	H/I	J	ΦK	Φ1	Φ2	L
F2E190-230-DP	270	130	267	310	226.8	98.4	195	7.8	15	97
F2E 220-230-DP	270	130	267	310	226.8	98.4	195	7.8	15	97
F2E 225-230-DP	270	130	267	310	226.8	98.4	195	7.8	15	97

Exhauster on the top	Type	F2E190-230-DP	F2E220-230-DP	F2E225-230-DP
Voltage Frequency		230V 50/60HZ	230V 50/60HZ	230V 50/60HZ
Air flow, Ventilation freely		570/620m³/h	860/900m³/h	1200/1340m³/h
Flux of air equip filter exported Include filtering pad of standard		1xFK6626.300 456/496m³/h	1xFK6626.300 688/540m³/h	1xFK6626.300 960/1072m³/h
Axle flow blower		Capacitance electromotion	Capacitance electromotion	Capacitance electromotion
Rated current		0.26A/0.34A	0.38A/0.40A	0.60A/0.88A
Power		58/75W	85/90W	135/200W
Noise level		62/64 dBA	73/74 dBA	69/71 dBA
Temperature range		-10°C~55°C	-10°C~55°C	-10°C~60°C

The quantity and size of the wind inlet filter can be decided according to the concrete requirement

Multiplane fan

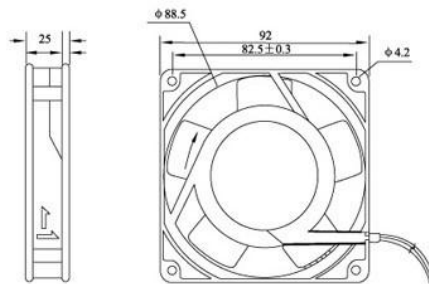
80×80×38mm



S: sleeve B: ball bearing

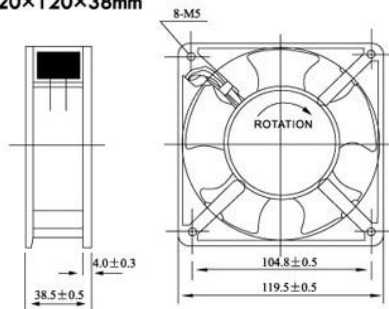
Type	F2E-80S/B-230	F2E-80S/B-115
Bearing	Sleeve/Ball	Sleeve/Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.08/0.09	0.09/0.16
Power(w)	15/12	15/12
Speed	2600/3000	2600/3000
Wind volume	49/59	49/59
Noise	29/35	29/35
Weight	335g	335g

92×92×25mm



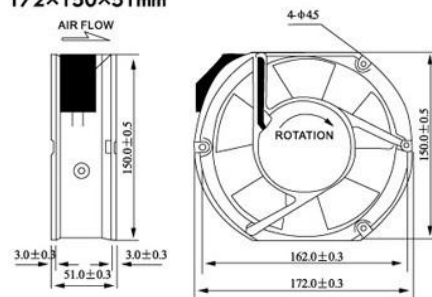
Type	F2E-92S/B-230	F2E-92S/B-115
Bearing	Sleeve/Ball	Sleeve/Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.07/0.08	0.14/0.16
Power(w)	16/14	16/14
Speed	2400/3100	2400/2900
Wind volume	47/58	47/58
Noise	29/35	29/35
Weight	255g	255g

120×120×38mm



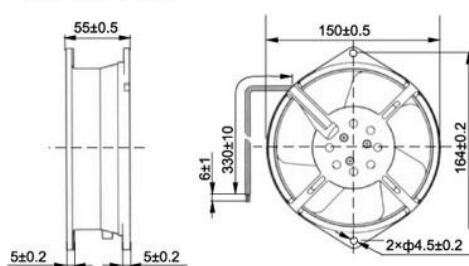
Type	F2E-120S/B-230	F2E-120S/B-115
Bearing	Sleeve/Ball	Sleeve/Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.12/0.10	0.25/0.20
Power(w)	17/14	17/14
Speed	2700/3100	2700/3100
Wind volume	84/100	84/100
Noise	38/41	38/41
Weight	520g	520g

172×150×51mm

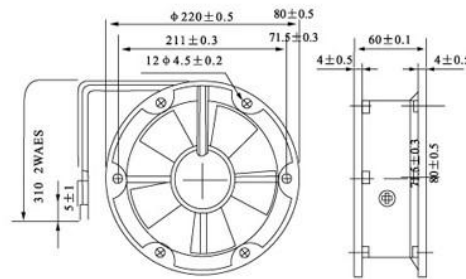


Type	F2E-150S/B-230	F2E-150S/B-115
Bearing	Sleeve/Ball	Sleeve/Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.28/0.35	0.48/0.55
Power(w)	51/44	52/45
Speed	2800/3100	2800/3100
Wind volume	190/220	190/220
Noise	38/41	38/41
Weight	920g	920g

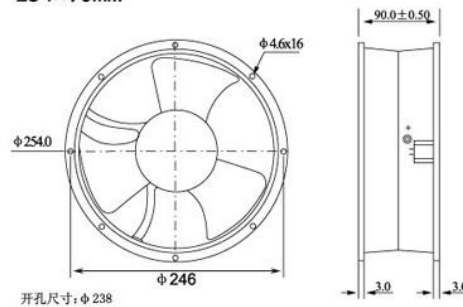
172×162×51mm



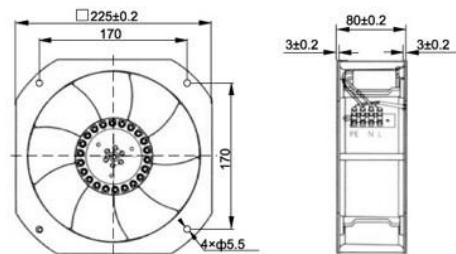
Type	F2E-162B-230	F2E-162B-115
Bearing	Ball	Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.26/0.36	0.42/0.51
Power(w)	53/43	40/35
Speed	2700/3000	2700/3000
Wind volume	191/224	191/224
Noise	48/52	48/52
Weight	1100g	1100g

220×60mm


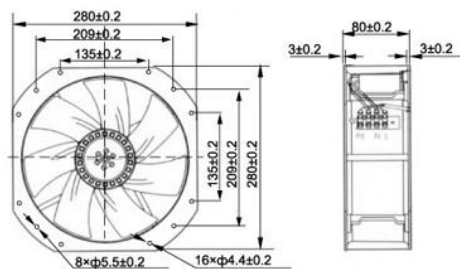
Type	F2E-220B-230	F2E-220B-115
Bearing	Ball	Ball
Voltage	230	115
Frequency	50	50
Current	0.45	0.90
Power(w)	44	52
Speed	2700	2700
Wind volume	600	600
Noise	1500V/min	1500V/min
Weight	1550g	1550g

254×90mm


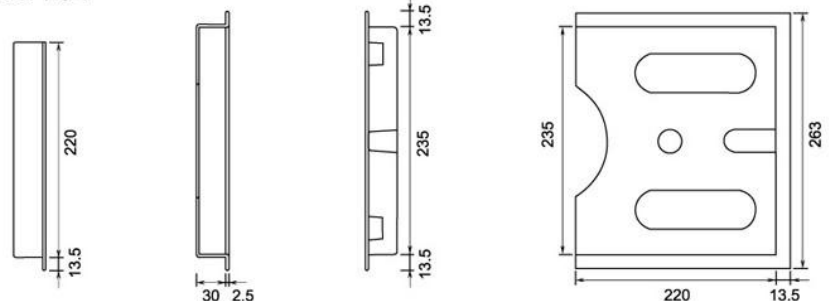
Type	F2E-250B-230	F2E-250B-115
Bearing	Ball	Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.22/0.16	0.40/0.36
Power(w)	33/31	40/48
Speed	1600/2700	1600/1700
Wind volume	480/550	480/550
Noise	45/56	48/56
Weight	1780g	1780g

260×225×80mm


Type	F2E-260B-230	F2E-260B-115
Bearing	Ball	Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.34/0.29	0.63/0.61
Power(w)	63/79	61/71
Speed	2450/2700	2500/2750
Wind volume	915/1010	925/1030
Noise	59/61	59/61
Weight	2200g	2200g

320×280×80mm


Type	F2E-320B-230	F2E-320B-115
Bearing	Ball	Ball
Voltage	220/230	110/115
Frequency	50/60	50/60
Current	0.46/0.60	0.95/1.20
Power(w)	140/100	140/100
Speed	2500/2650	2480/2600
Wind volume	1800/1950	1800/1950
Noise	68/70	68/70
Weight	2900g	2900g

Documents Pocket WJ-1


Cooling Units (Wall-Mounted /Indoor Type)



Model No.		LKA-350W	LKA-450W	LKA-600W	LKA-680W	LKA-800W	LKA-1000W	LKA-1600W	LKA-2200W	LKA-3500W	LKA-4000W
Cooling capacity	W	350	450	600	680	800	1000	1600	2200	3500	4000
	Btu/h	1194	1535	2045	2320	2728	3412	5492	7506	11942	13648
Voltage/phase/frequency		220-240V/1PH/50Hz									
Current	A	1.2	1.3	1.8	1.9	2.9	3.2	3.5	4.2	6.8	8.2
Grade of Protection	inside	IP54									
	outside	IP34									
Refrigerant		R134a/R22									
Outside temp		15°C-52°C									
Inside temp		25°C-35°C									
Thermostat setting point	°C	Temp range 25°C-40 °C Factory setting :35°C									
Noise level	dB(A)	55	55	55	55	55	58	58	62	62	62
Dimension	D(MM)	132	132	180	180	228	228	228	303	303	343
	W(MM)	259	259	300	300	433	433	433	503	503	582
	H(MM)	420	420	700	700	755	755	755	1000	1000	1150
Weight	KG	10	10	16	17	27	29	30	42	55	62

Please contact us if you have special requirements for the above items.

Cooling Units (Wall-mounted/Outdoor Type)



Model	LKA-350WC	LKA-600WC	LKA-1000WC	LKA-1500WC	LKA-2000WC	LKA-2500WC	LKA-3000WC	LKA-4000WC
Operating Voltage(V)	220-240V/50Hz	220-240V-50/60Hz	220-240V-50/60Hz	220-240V-50/60Hz	220-240V-50/60Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Cooling Capacity(W)	350	600	1000	1500	2000	2500	3000	4100
Power Consumption(W)	189	390	630	680	850	1030	1360	1800
COP	2.12	1.79	1.98	2.21	2.35	2.72	2.2	2.28
Heating Capacity(W)	400	500	1000	1000	1000	1000	1000	1000
Rated Current(A)	1.5	2.8	3	3.2	4.1	7.2	8	12.5
Start-up Current(A)	2.9	4.25	15.1	15.7	19	22	26	33
Internal Airflow(CMH)	150	220	350	350	530	750	900	1230
Temperature Range	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C	-40°C~55°C
Noise dB(A)	60	60	63	65	59	65	65	65
HxWxD(mm)	472.5×354×184	750×430×195	1100×430×195	1100×430×195	950×500×240	1300×430×270	1300×430×270	1350×620×350
Weight(kg)	20	25	42	46	52	56	62	85
IP grade	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55

Please contact us if you have special requirements for the above items.

**Cooling Units
(Roof-mounted Type)**


Model No.		LKA-600T	LKA-680T	LKA-800T	LKA-1000T	LKA-1200T	LKA-1600T	LKA-2200T	LKA-2500T
Cooling capacity	W	600	680	800	1000	1200	1600	2200	2500
	Btu/h	2045	2320	3072	3412	4100	5492	7506	8533
Voltage/phase/frequency		220-240V/1PH/50Hz							
Current	A	1.8	1.9	2.1	3.2	3.3	3.5	4.8	5.1
Grade of Protection	inside	IP54							
	outside	IP34							
Refrigergerant		R134a	R134a	R22			R22		
Outside temp		15°C-52°C	15°C-52°C						
Inside temp		25°C-40°C	25°C-40°C						
Thermostat setting point	°C	Temp range 25°C-40 °C Factory setting :35°C							
Nosie level	dB(A)	58	58	58	58	60	60	60	60
Dimension	D(MM)	340	340	480	480	535	535	515	515
	W(MM)	370	370	400	400	431	431	518	518
	H(MM)	480	480	385	385	371	371	433	433
Weight	KG	22	25	28	31	33	35	39	42

**Air/Water Heat Exchangers
(Wall-Mounted Type)**


Model NO		LKA-1000H	LKA-1500H	LKA-2200H	LKA-3000H
Heat Exchanging Capacity	W	1000	1500	2200	3000
	Btu/h	3412	5118	7506	10238
Grade of Protection		Inside: IP55			
Water flow		200L/h	250L/h	300L/h	350L/h
Voltage/phase/frequency	V/hz	220-240V/1PH/50-60Hz			
Noise level	dB(A)	48			
Water inlet temp	°C	1°C - 35°C			
Condenser water solution		Safe pipe			
Thermostat setting point	°C	Temp range/8-50 °C Factory setting :35°C			
Working pressure	bar	1-10			
Dimension	D(MM)	150	150	150	150
	W(MM)	400	400	480	480
	H(MM)	520	520	950	950
Weight	kg	18	22	28	32



Heater/Thermostat /Hygrostat—

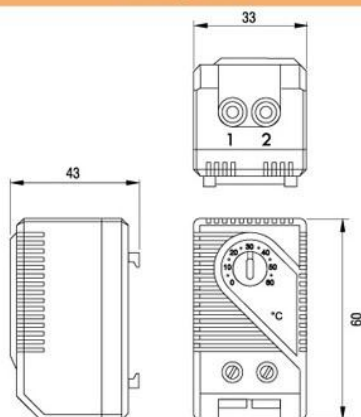


- Large setting range
- Small size
- Simple to mount
- High switching performance

KTO 011: Thermostat (normally closed); contact breaker for regulating heaters.

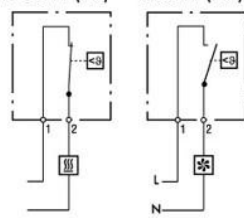
KTS 011: Thermostat (normally open); contact maker for regulating filter fans and heat exchangers or for switching signal device when temperature limit has been exceeded.

Installing method



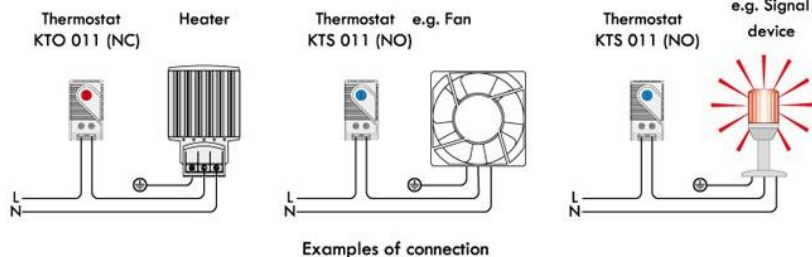
Temperature range	0-60°C
KTO 011 NC(Normally closed)	When the temperature reaches the set value, open circuit
KTS 011 NO(Normally open)	When the temperature exceeds the set value action, closed circuit
Switch temperature difference	7K(±4K tolerance)
Sensor element	thermostatic bimetal
Contact type	Snap-action
Contact resistance	< 10m ohm(Incidental connection line)
Service life	>100,000 cycles
Max. Switching capacity	250VAC,10(2)A 120VAC,15(2)A 30WDC at 24VDC to 72VDC
Connection	2-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Casing	plastic according to UL94 V-0, light grey
Installation	35mm DIN Installation guide
Dimensions	60×33×43mm
Weight	40g
fitting position	variable
Operating/Storage temperature	-20°C to +80°C
Protection type	IP20

Thermostat KTO 011 (NC) Thermostat KTS 011 (NO)



Connection diagrams

Heater
Filter fan,
Cooling equipment,
Signal device



Examples of connection

Setting range	Art. No. Contact Breaker (NC)	Art. No. Contact Maker (NO)	Approvals
0 to +60°C	KTO 011	KTS 011	CE

KTO 011-2/KTS 011-2 Thermostat

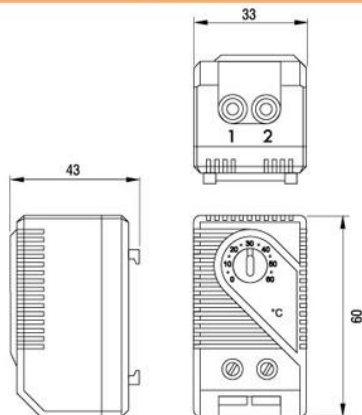


- Large setting range
- Small size
- Simple to mount
- High switching performance

KTS 011-2: Thermostat(normally closed); contact breaker for regulating heaters.

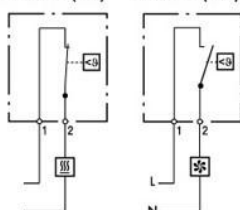
KTS 011-2: Thermostat (normally open); contact maker for regulating filter fans and heat exchangers or for switching signal device when temperature limit has been exceeded.

Installing method



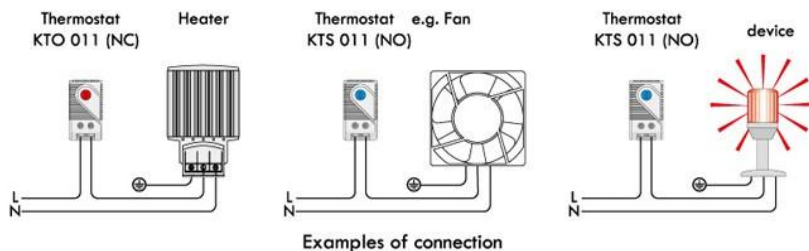
KTO 011-2 NC(Normally closed)	When the temperature reaches the set value, open circuit
KTS 011-2 NO(Normally open)	When the temperature exceeds the set value action, closed circuit
Switch temperature difference	7K(±4K tolerance)
Sensor element	thermostatic bimetal
Contact type	Snap-action
Contact resistance	< 10m ohm(Incidental connection line)
Service life	>100,000 cycles
Max. Switching capacity	250VAC,10(2)A
	120VAC,15(2)A
	30WDC at 24VDC to 72VDC
Connection	2-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Casing	plastic according to UL94 V-0, light grey
Installation	35mm DIN Installation guide
Dimensions	60×33×43mm
Weight	40g
fitting position	variable
Operating/Storage temperature	-20°C to +80°C
Protection type	IP20

Thermostat KTO 011 (NC) Thermostat KTS 011 (NO)



Connection diagrams

Heater
Filter fan,
Cooling equipment,
Signal device



Examples of connection

Setting range	Art. No. Contact Breaker (NC)	Art. No. Contact Maker (NO)	Approvals
0 to +60°C	01140.0-00	01141.0-00	CE
-10 to +50°C	01142.0-00	01143.0-00	CE
+20 to +80°C	01159.0-00	01158.0-00	CE
0 to +60°C	01146.9-00	01147.9-00	CE



- NO and NC in one casing
- Separate adjustable temperatures

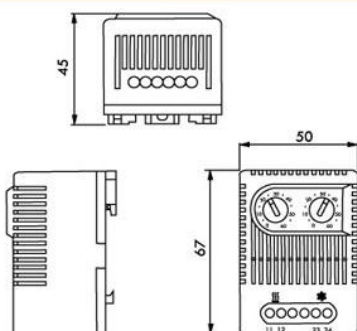
- High switching capacity
- Terminals easily accessible
- Clip Fixing

Two thermostats in one casing:

Thermostat(contact breaker, normally closed)for regulating heaters
 Thermostat(contact make, normally open) for regulating filter fans and heat exchangers or switching signal devices when temperature limit has been exceeded.

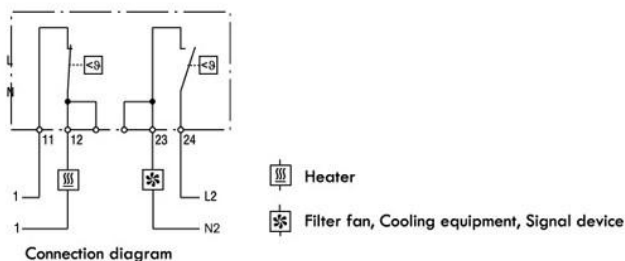
Heaters and cooling equipment can be switched independently from each other with a temperature offset a he usual change-over contacts.

Size chart



Temperature range	NO/NC:0-60°C
Switch temperature difference	7K(+4K tolerance)
Sensor element	thermostatic bimetal
Contact type	Snap-action
Contact resistance	<10m ohm
Service life	>100,000 cycles
Max. Switching capacity	250VAC,10(2)A
	120VAC,15(2)A
	DC 30W
Connection	4-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Installation	35mm DIN Installation guide
Casing	UL94 V-0 Plastic, light gray
Dimensions	67×50×46mm
Weight	90g
fitting position	variable
Operating/Storage temperature	-20°C to +80°C
Protection type	IP20

Thermostat
 ZR 011(NC/NO)



Art. No.	Setting Range		Setting Range	
ZR 011	Contact breaker (NC)	0 to +60°C	Contact maker (NO)	0 to +60°C

ZR 011-2 Dual Thermostat



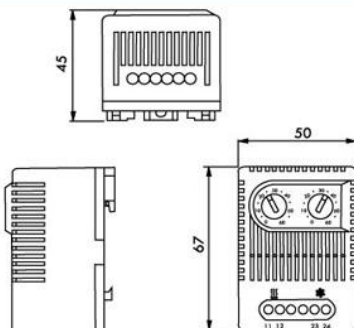
- NO and NC in one casing
- Separate adjustable temperatures
- High switching capacity
- Terminals easily accessible
- Clip Fixing

Two thermostats in one casing:

Thermostat(contact breaker, normally closed)for regulating heaters
Thermostat(contact make, normally open) for regulating filter fans and heat exchangers or switching signal devices when temperature limit has been exceeded.

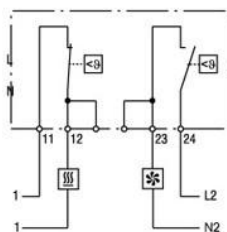
Heaters and cooling equipment can be switched independently from each other with a temperature offset as opposed to the usual change-over contacts.

Size chart



Temperature range	NO/NC:0-60°C
Switch temperature difference	7K(+4K tolerance)
Sensor element	thermostatic bimetal
Contact type	Snap-action
Contact resistance	< 10m ohm
Service life	>100,000 cycles
Max. Switching capacity	250VAC,10(2)A
	120VAC,15(2)A
	DC 30W
Connection	4-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Installation	35mm DIN Installation guide
Casing	UL94 V-0 Plastic, light gray
Dimensions	67×50×46mm
Weight	90g
fitting position	variable
Operating/Storage temperature	-20°C to +80°C
Protection type	IP20

Thermostat
ZR 011(NC/NO)

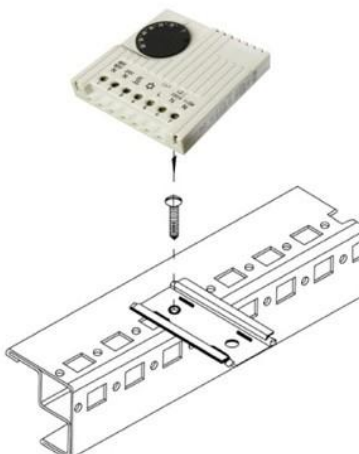
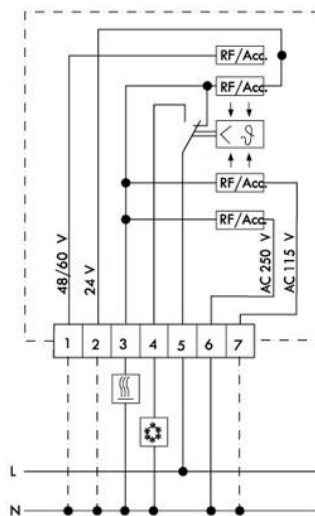


Connection diagram

Heater

Filter fan, Cooling equipment, Signal device

Art. No.	Setting Range		Setting Range	
ZR 011-2	Contact breaker (NC)	0 to +60°C	Contact maker (NO)	0 to +60°C



- Bi-metal controller as a temperature sensitive element with thermal feedback.
- Contact population: Single-pole change-over contact as a quick-break contact.
- Permissible contact load:
Cat. 5 - 3 (heating) AC 10 (4*) A, DC = 30 W Cat. 5 - 4 (cooling) AC 5 (4*) A, DC = 30 W
* () = inductive load at $\cos \phi = 0.6$
Setting range: 0 °C to + 60 °C
- Weight: 105g appr Size: 71x71x33.5mm Switch discrepancy: 1K $\pm$ 0.8K
- Voltage scope is wide, any type could be used from 24V to 230 V
- Time-saving connection, terminal block could be installed screw from outside
- Easy installation, could be installed to 35mm din rail vertically or horizontally, according to EN50 022,it could be clipped to TS/35 cabinet profile with its accessory adapter.

Application Especially suitable for controlling fan-and-filter units, heaters and heat exchangers, this thermostat can also be used as a signal generator for monitoring the enclosure internal temperature.

Sensing element	Bimetallic
Shock configuration	Conversion of electric shock as a transient unipolar switching elements
Permissible contact load	Cat. 5 - 3 (heating) AC 10 (4*) A, DC = 30 W Cat. 5 - 4 (cooling) AC 5 (4*) A, DC = 30 W * () = inductive load at $\cos \phi = 0.6$
Temperature adjustment range	0°C to +60°C
Rated voltage	230/115/60/48/24V (AC) 60/48/24V (DC)
Weight	105g
Size	71X71X33.5mm
Switching difference	1K $\pm$ 0.8K

Rated voltage
 230/115/60/48/24V(AC)
 60/48/24V (DC)

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

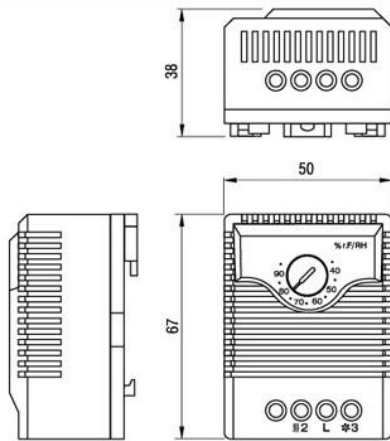
MFR 012 Electromechanical Hygrostat



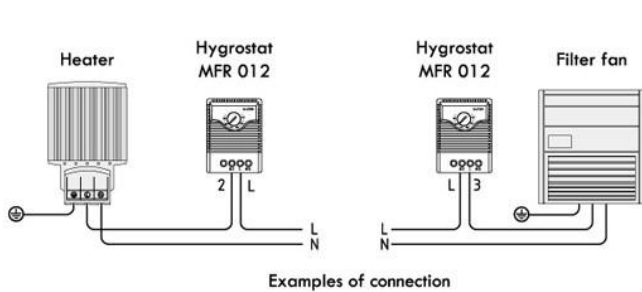
- Adjustable relative humidity
- Change-over contact
- High switching capacity
- Easily accessible terminals
- Clip fixing

The electromechanical hygrostat is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65% is exceeded. In this way condensation and corrosion in enclosures with electric/electronic components is effectively prevented.

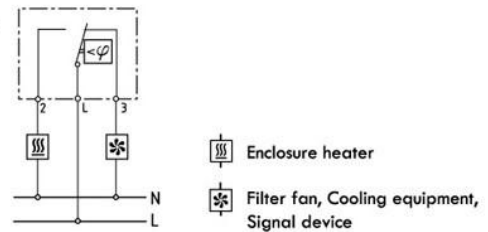
Connection



Switching error	4% RH ($\pm 3\%$ tolerance)
Relative humidity range	35%-95%
Allow wind speed	15m/sec
Contact type	Changeover contact
Contact resistance	< 10m ohm
Service life	> 50,000 cycles
Mix. Switching capacity	20V AC/DC 100 mA
Max. Switching capacity	25 VAC, 5 A 20WDC
Connection	3-pole terminal for 2.5mm ² , clamping torque 0.5Nm max.: rigid wire 2.5mm ² , stranded wire (with wire end ferrule) 1.5mm ²
Installation	35mm DIN Installation guide
Casing	UL94 V-0 Plastic, light gray
Dimensions	67x50x38mm
Weight	about 60g
Fitting position	variable
Operating/Storage temperature	0 ~ +60°C (+32 ~ +140°F) / -20 ~ +80°C (-4 ~ +176°F)
Protection type	IP20



Connection diagram



Art. No.
MFR 012

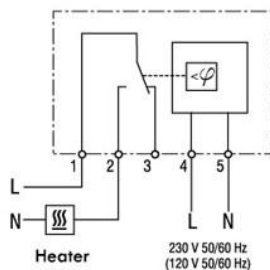
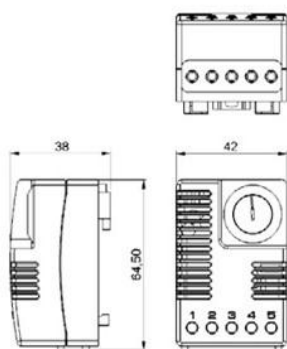
Setting range
35 to 95% RH



- Temperature and humidity adjustable
- High switching capacity
- Optical operating display (LED)
- Clip fixing

The electronic hygrotherm senses the ambient temperature and relative humidity in an enclosure with electric / electronic components and turns on a heater (or alternatively a fan) at either set point, helping prevent the formation of condensation in the enclosure. The LED integrated in the adjustment knob on the active controller is lit when the connected device is in operation.

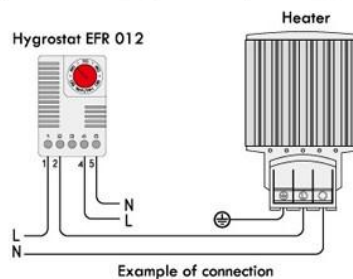
Size chart



Connection diagram

Switch difference	5% RH ($\pm 1\%$ RH tolerance) at 25°C/77°F (50% RH)
Reaction time	5 sec.
Contact type	change-over contact (relay)
Service life	> 50,000 cycles
Max. switching capacity (relay output)	240VAC, 8(1.6) A ; 120VAC, 8 (1.6)A ; 100WDC at 24VDC
EMC	acc.to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Optical indicator	LED
Connection	5-pole terminal, clamping torque 0.5Nm max.:rigid wire 2.5mm ² stranded wire (with wire end ferrule) 1.5mm ²
Mounting	clip for 35mm DIN rail, (EN50022)
Casing	UL94 V-0, light grey
Dimensions	64.5 x 42 x 38mm
Weight	approx. 70g
Fitting position	vertical
Operating / Storage temperature	0 to +60°C(+32 to +140°F) / -20 to +70°C(-4 to +158°F)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection type	IP20

Art. No.	Operating voltage	Setting range
01245.0-00	230VAC, 50/60Hz	40 to 90% RH
01246.0-00	230VAC, 50/60Hz	65% RH pre-set
01245.9-00	120VAC, 50/60Hz	40 to 90% RH
01246.9-00	120VAC, 50/60Hz	65% RH pre-set



Example of connection

Art. No.	Operating voltage	Setting range	Approvals
01245.0-00	230VAC, 50/60Hz	40 to 90% RH	CE
01246.0-00	230VAC, 50/60Hz	65% RH pre-set	CE
01245.9-00	120VAC, 50/60Hz	40 to 90% RH	CE
01246.9-00	120VAC, 50/60Hz	65% RH pre-set	CE

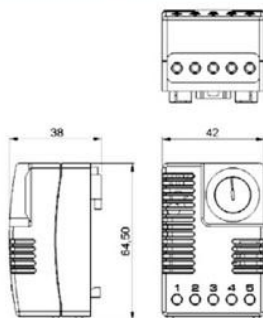
ETR 011 Electronic Thermostat



- Large setting range
- Optical operating display (LED)
- Change-over contact
- Small hysteresis
- Clip fixing

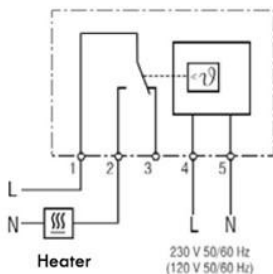
The electronic thermostat is used for controlling heating and cooling equipment, filter fans or signal devices. The thermostat registers the surrounding air and can switch both inductive and resistive loads via relay with change-over contact. The LED integrated in the adjustment knob is lit when the NC contact is closed (e.g. when a connected heater is operating).

Size chart

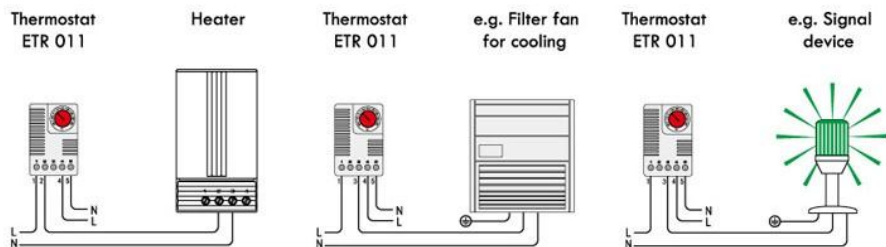


Switch difference	4K ($\pm 1K$ tolerance) at 20 °C/68 °F
Sensor element	NTC
Reaction time	5 sec
Contact type	change-over contact (relay)
Service life	> 50,000 cycles
Max. switching capacity (relay output)	240VAC, 8(1.6)A/120VAC, 8(1.6)A 100WDC at 24VDC
Max. inrush current	16AAC for 10 sec.
Optical indicator	LED
Connection	5-pole terminal, clamping torque 0.5Nm max.; rigid wire 2.5mm ² stranded wire (with wire end ferrule) 1.5mm ²
Mounting	clip for 35mm DIN rail, EN 60715
Casing	plastic according to UL94 V-0, light grey
Dimensions	64.5 x 42 x 38mm
Weight	approx. 70g
Fitting position	vertical
Operating / Storage temperature	-40 to +85°C (-40 to +185°F)
Operating / Storage humidity	max. 90 % RH (non-condensing)
Protection type	IP20

Art. No.	Operating voltage	Setting range
01131.0-00	230VAC, 50/60Hz	-20 ~ 60°C



Connection diagram



Examples of connection

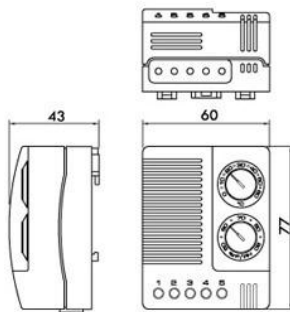
Art. No.	Operating voltage	Setting range	Approvals
01131.0-00	230VAC, 50/60Hz	-20 to 60°C	CE



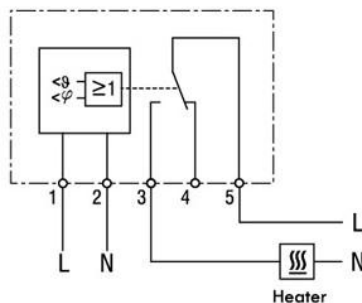
- Temperature and humidity adjustable
- High switching capacity
- Optical operating display (LED)
- Clip fixing

The electronic hygrotherm senses the ambient temperature and relative humidity in an enclosure with electric / electronic components and turns on a heater (or alternatively a fan) at either set point, helping prevent the formation of condensation in the enclosure. The LED integrated in the adjustment knob on the active controller is lit when the connected device is in operation.

Size chart

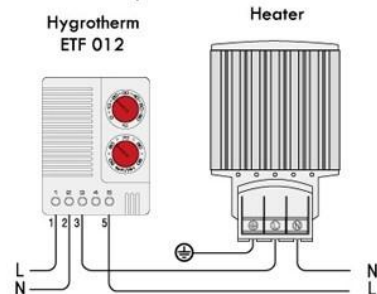


Connection diagram



Switch difference (temperature)	2K (±1K tolerance) at 25°C/77°F (50% RH)
Switch difference (humidity)	4% RH (±1% tolerance) at 25°C/77°F (50% RH)
Reaction time (humidity)	5 sec.
Contact type	change-over contact (relay)
Contact resistance	< 10m ohm
Service life	NC: 50,000 cycles NO: 100,000 cycles NC: 240VAC, 6(1)A NO: 120VAC, 8(1.6)A NC: 240VAC, 6(1)A NO: 120VAC, 8(1.6)A 100WDC at 24VDC
Max. Switching capacity (relay output)	
EMC	acc.to EN 55014-1-2, EN 61000-3-2 EN 61000-3-3
Optical indicator	LED
Connection	5-pole terminal for 2.5mm ² , clamping torque 0.5Nm max, rigid wire 2.5mm ² stranded wire (with wire end ferrule) 1.5mm ²
Mounting	clip for 35mm DIN rail, EN 60715
Casing	plastic according to UL94 V-0 light grey
Dimensions	77×60×43mm
Weight	approx. 0.2kg
Fitting position	vertical
Operating / Storage temperature	0 to +60°C (+32°C to +140°F) / -20°C to +80°C (-4°C to +176°F)
Protection type	IP20

Example of connection



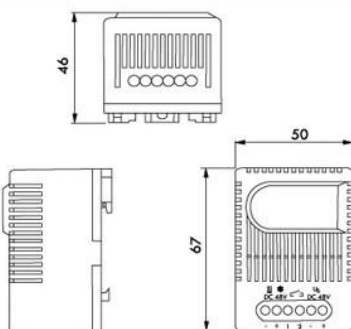
Art. No.	Operating voltage	Setting range temperature	Setting range humidity	Approvals
01230.0-00	230VAC, 50/60Hz	0 to +60°C	50 to 90% RH	CE
01230.9-01	120VAC, 50/60Hz	0 to +60°C	50 to 90% RH	CE

Switch Module SM010 (24VDC+48VDC)



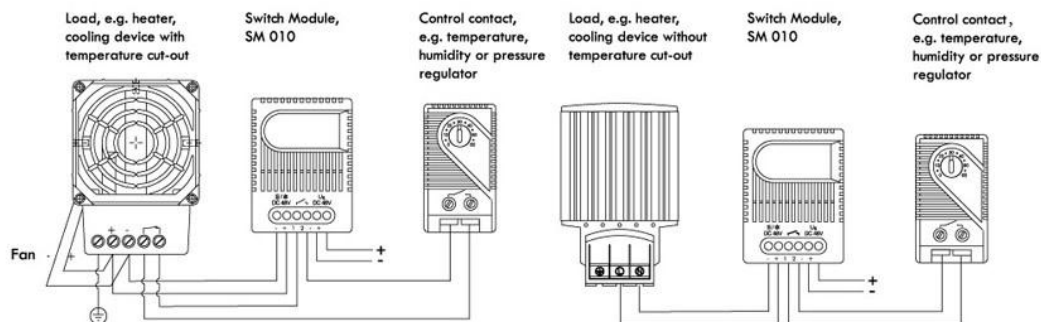
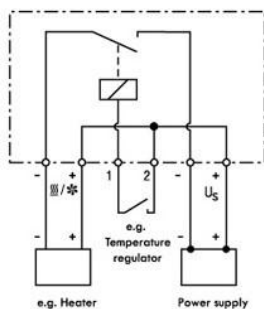
- High DC switching capacity
 - Variety of applications
 - Compact design
 - Simple connection
 - Clip fixing
- Switch module for switching DC appliances with high switching capacity. A Separate conventional switch contact is used as contoler (e.g. temperature regulator, humidity regulator),The switch module is availale in 24VDC and 48VDC versions.

Size chart



Cotact type	contact maker, normally open(Relay/MOSFET)
Contact resistance	< 10m ohm
Service life	> 100 000 cycles
EMC	acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Connection	6-pole terminal,clamping torque0.5Nm max, rigid wire 2.5mm ²
Mounting	clip for 35mm DIN rail, EN50022
Casing	plaltic according toUL94 V-O,light grey
Dimensions	67 x 50 x 46mm
Weight	approx,85g
Fitting position	variable
Operating/Storage temperature	-45 to +70°C (-49 to +158°F)
Protection type	IP20
Certificate	VDE intended

Art.No.	Operating voltage.	Max.Switching capacity
01001.0-00	24VDC (20-28VDC)	28VDC 16A
01000.0-00	48VDC (38-56VDC)	56VDC 16A



Art. No.	Operating voltage	Max. switching capacity	Max. inrush current
01001.0-00	24VDC (20-28VDC)	28VDC 16A	16ADC
01000.0-00	48VDC (38-56VDC)	56VDC 16A	16ADC



Features:

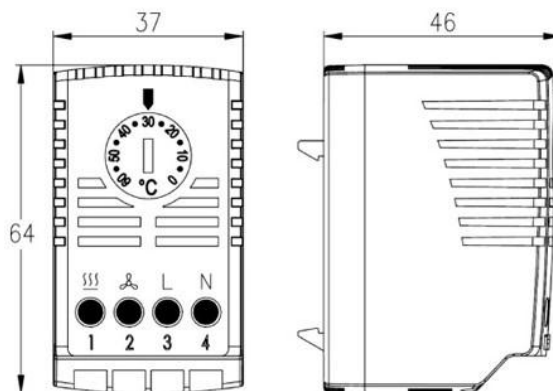
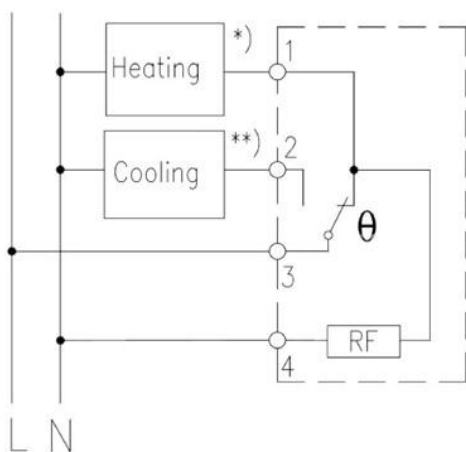
- Easily mounted on 35mm DIN rails with snap on attachment per EN50022

Product Description:

Temperature controller for controlling cabinet heaters, filter fans, slide-in fans, heat exchangers etc.

- Locking adjusting knob grey scale
- Standard thermic reduction

Storage temperature	-20° bis + 80°C
Switching current	100-250VAC
Heating (opened con.)	10 A (2) DC 30W
Cooling (closed con.)	5 A (2) DC 30W
Switching hysteresis	Approx. 5 K (with thermic reduction approx.1K)
Contact	2 way
Connection	4 screw terminals 2,5 mm ²
Sensor element	Bimetal
Service life time	> 100.000 switching cycles
Temperature control range	0...+60°C
Surface finish	Plastic light grey UL94VO
Dimension (WxHxD)	37x64x46mm
Weight	0.06 kg
Protection type	IP20



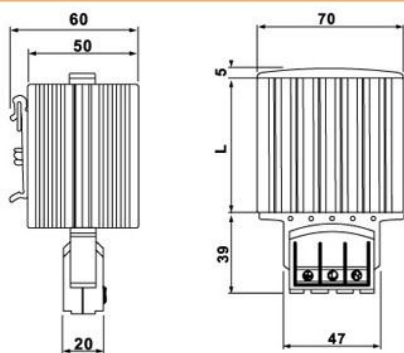
HG140 Type Heater



- Pressure clamp connectors
- Dynamic heating up
- wide voltage range
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

These heaters are used in enclosures where damage from condensation must be prevented or where the temperature may not fall below a minimum value. The aluminium profile heater body design has a chimney effect and distributes the heat evenly. The pressure clamp connectors save time and simplify installation.

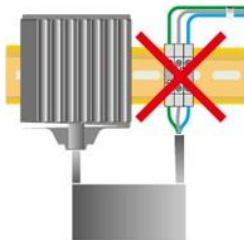
Size chart

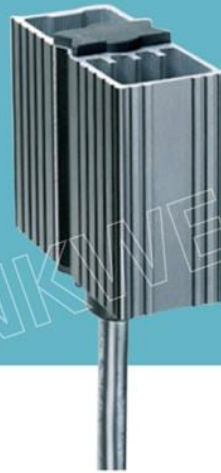


Operating voltage	120-250V AC/DC
Heating element	PTC resistor, self regulating and temperature limiting
Heater body	extruded aluminium profile, anodised
Connection casing	3 perssure clamps for stranded wire 0.5-1.5mm ² (with wire and terrule) and rigid wire 0.5-2.5mm ² plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating/Storage temperature	-45 to +70°C (-49 to +158°F)
Protection type/Protection class	IP20/I(earthed)
Certificate	CE

Operating with voltages below 140V AC/DC reduces heating performance by approx. 10%

Type	Heating capacity	Inrush current max.	Length(L) (mm)	Weight (approx)
HG 140	15W	1.5	75	0.3
HG 140	30W	3	75	0.3
HG 140	45W	3.5	75	0.3
HG 140	60W	2.5	75	0.3
HG 140	75W	4	75	0.3
HG 140	100W	4.5	145	0.5
HG 140	150W	9	145	0.5

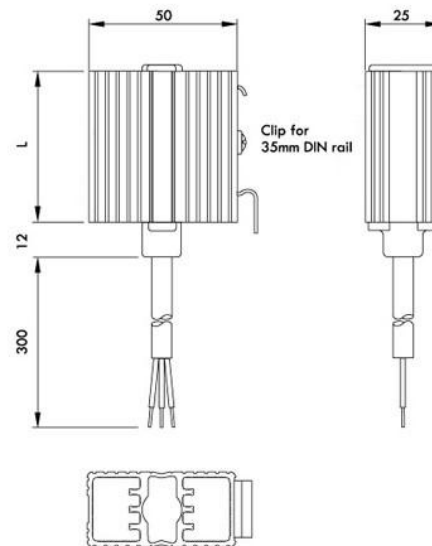
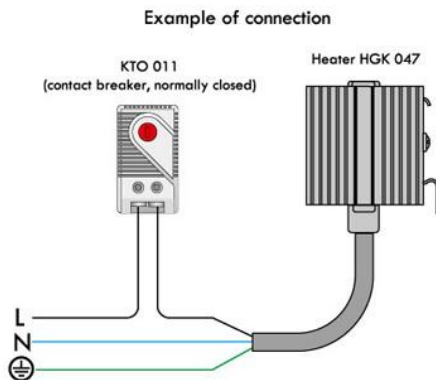




- Dynamic heating up
- Energy saving
- Wide voltage range
- Clip fixing

The heaters are used in enclosures where condensation is to be prevented or the temperature may not fall below a minimum value. In this way corrosion is avoided and an even temperature is ensured. The heaters are designed for permanent operation.

Heating element	PTC resistor - temperature limiting
Heater body	extruded aluminium profile, anodised
Mounting	clip for 35mm DIN rail, EN 60715
Fitting position	vertical airflow (air outlet up, connection on bottom)
Operating / Storage	-45 to +70°C (-49 to +158°F)
Operating / Storage humidity	max. 90% RH (non-condensing)
Protection type / Protection class	IP44 / I (earthed)
Accessories	screw fixing
Note	other voltages on request



Art. No.	Operating voltage	Heating capacity ¹⁾	Inrush current max.	Pre-fuse T (time-delay)	Length (L)	Weight (approx.)	Connection	Approvals
04700.0-00	120-240V AC/DC ²⁾	10W	1.0A	1A	52mm	0.1kg	3 x 0.5mm ² x 300mm cable (silicone)	CE
04701.0-00	120-240V AC/DC ²⁾	20W	2.5A	2A	60mm	0.2kg	3 x 0.5mm ² x 300mm cable (silicone)	CE
04702.0-00	120-240V AC/DC ²⁾	30W	3.0A	2A	70mm	0.2kg	3 x 0.5mm ² x 300mm cable (silicone)	CE
04700.9-00	110-120V AC/DC	10W	1.0A	1A	52mm	0.1kg	3 x AWG 20 x 300mm cable	CE
04701.9-00	110-120V AC/DC	20W	1.5A	2A	70mm	0.2kg	3 x AWG 20 x 300mm cable	CE
04702.9-00	110-120V AC/DC	30W	1.5A	2A	100mm	0.2kg	3 x AWG 20 x 300mm cable	CE

¹⁾ at 20°C (68°F) ambient temperature; ²⁾ (min. 110V, max 265V) Operating with voltages below 140V AC/DC reduces heating performance by approx. 10%.

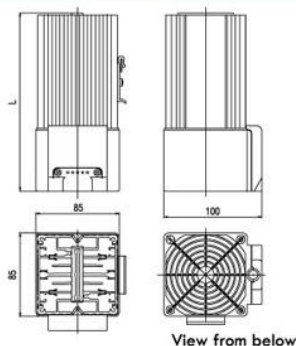
HGL046 Type Compact Fan Heater



- Compact Design
- Clip fixing
- Long service life
- Maintenance free
- Temperature safety cut-out

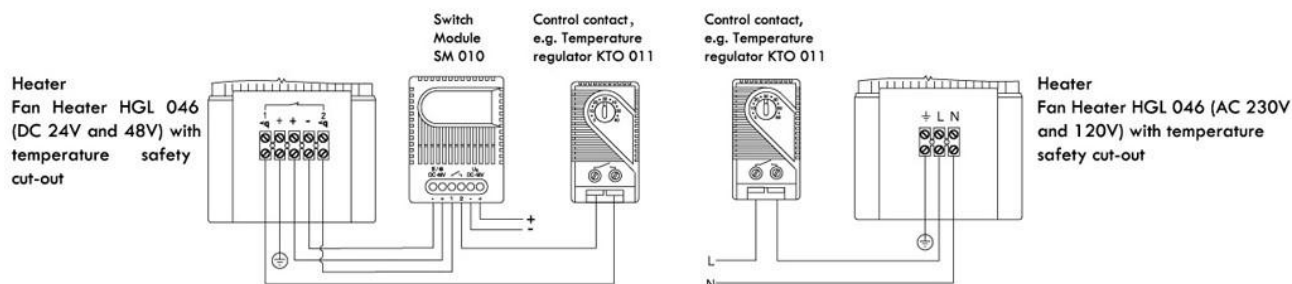
Compact fan heater prevents formation of condensation. The integrated high performance axial fan provides forced air circulation and so guarantees an even temperature in enclosures. With internal terminal connector.

Size chart



Operating voltage	230V AC 50/60Hz
Heating element	PTC resistor, self regulating and temperature limiting
Temperature safety cut-out	to protect against overheating in case of fan failure
Heater body	anodised extruded aluminium profile
Surface temperature	max. 75 °C(400W)
Axial fan, ball bearing	Airflow, free flow AC: 45m³/h (50Hz) or 54m³/h (60Hz) DC: 54m³/h service life 50 000h at 25°C (77°F)
Connection	internal connection terminal 1.5mm² with strain relief clamping torque 0.8Nm max.
Connection casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating/Storage temperature	-45 to +70 °C(-49 to +158°F)
Protection type/Protection class	IP20 / I (earthed)

Type	Operating voltage	Heating capacity	Length (L)	Weight (approx.)
HGL046-250	230VAC, 50/60HZ	250W	85x182x85mm	1.10kg
HGL046-400	230VAC, 50/60HZ	400W	85x222x85mm	1.40kg

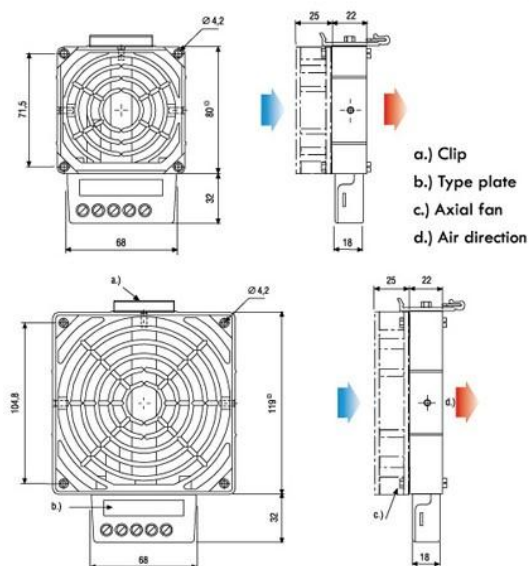




- Compact / Flat design
- High air through-flow
- Temperature safety cut-out
- Clip fixing

Compact high-performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. This fan heater is available without fan (HV 031) and with fan (HVL 031).

Size chart



Important! Heater may only be operated together with fan. Danger of overheating!

HV 031	Heater without fan (fan mounting kit included)
HVL 031	Heater with fan
Heating element	high performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure
Heater body	die-cast aluminium(glass bead blasted)
Connection	3-pole screw connector 2.5mm ² , clamping torque 0.8Nm max
Connection casing	plastic according to UL94 V-0, BLACK
Mounting	clip for 35mm DIN rail, EN50022
Fitting position	horizontal
Operating/Storage temperature	-45 to +70°C / (-49 to +158°F)
Protection type/Protection class	IP20 / I (earthed)
Service life	service life 50,000h at 25°C / (77°F)
Connection(axial fan)	2-pole screw connector 2.5mm ² (L2/N2)

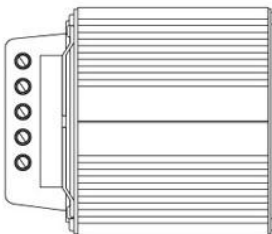
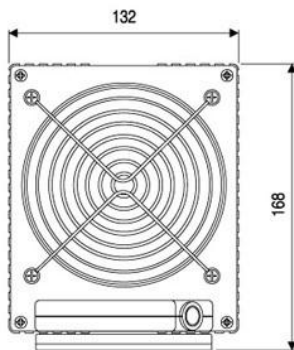
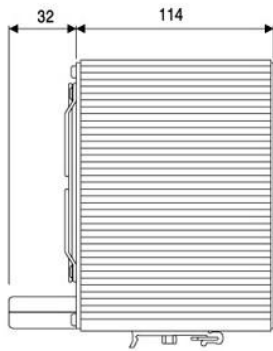
Art.no.HV 031	Art.no.HV 031	Heating capacity	Dimensions	Weight(approx.)
230vac,50/60Hz	120 vac,50/60Hz			
03100.0-00	03100.9-00	100W	80×112×22mm	0.40kg
03101.0-00	03101.9-00	150W	80×112×22mm	0.40kg
03110.0-00	03110.9-00	200W	119×151×22mm	0.50kg
03111.0-00	03111.9-00	300W	119×151×22mm	0.50kg
03112.0-00	03112.9-00	400W	119×151×22mm	0.50kg

Art.no.HVL 031	Art.no.HVL 031	Heating capacity	Airflow min	Dimensions	Weight(approx.)
230vac,50/60Hz	120 vac,50/60Hz		free flow		
03102.0-00	03102.9-00	100W	35m ³ /h	80×112×47mm	0.60kg
03103.0-00	03103.9-00	150W	35m ³ /h	80×112×47mm	0.60kg
03113.0-00	03113.9-00	200W	108m ³ /h	119×151×47mm	0.90kg
03114.0-00	03114.9-00	300W	108m ³ /h	119×151×47mm	0.90kg
03115.0-00	03115.9-00	400W	108m ³ /h	119×151×47mm	0.90kg

Fan heaters 800-1500W



Fan Assisted PTC Heaters

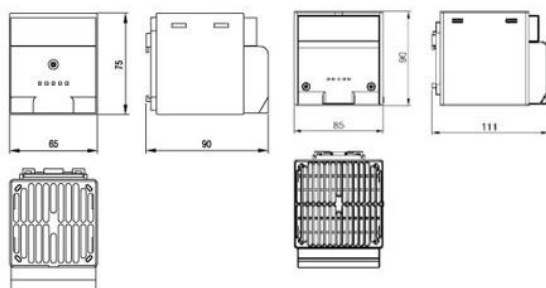


Heating Capacity		W	800W	1000W	1200W	1500W
Article number	230	V/HZ	800.0-00	1000.0-00	1200.0-00	1500.0-00
	110		800.9-00	1000.9-00	1200.9-00	1500.9-00
Max. current		A	8.0	9.0	12.0	13.0
Heating element			PTC			
Thermal protection			Thermal cut out fuse in case of fan failure			
Radiator			Extruded aluminium profile, anodized			
Axial fan			Ball bearing, service life 50.000 hrs at 25°C(77°F), air flow rate 35m³/h, free flow			
Electrical connections			5 screw terminals for stranded or rigid wire 2.5mm²			
Terminal block			plastic according to V-0, black			
Protection class IEC			Class°C ,Earthed			
Protection degree EN80529			IP20			
Operating/Storage temperature			-25/+70°C			
Mounting			clip for 35MM DIN rail, EN 50022			
Fitting position			vertical			
Dimensions H*W*D		mm	132×168×146			
Weight		KG	1.5			
Conformity			CE			

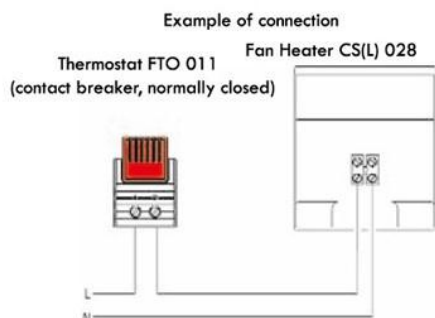


- Small, compact design
- Clip or screw fixing
- Quiet in operation
- Dynamic heating up

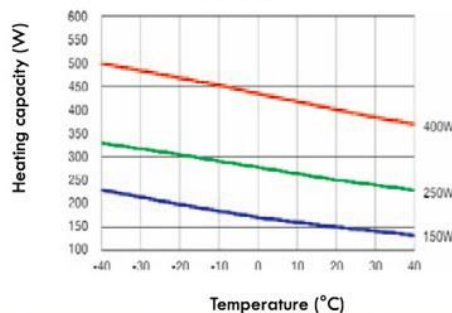
Fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric / electronic components. The heater is connected using the internal terminal connectors. The small size of the CS / CSL 028 makes it ideal for use in enclosures where space is at a premium.



Heating element	PTC resistor - temperature limiting
Inrush current max	2A at 230VAC, 5A at 120VAC
Surface temperature	150W/250W: max. 50°C (122°F), except upper protective grille 400W: max. 65°C (149°F), except upper protective grille at 20°C (68°F) ambient temperature
Axial fan, ball bearing	CS 028: 13.8m³/h, CSL 028: 45m³/h (230VAC), 54m³/h (120VAC)
Connection	2-pole clamp max. 2.5mm², clamping screw torque 0.8Nm max
Casing	plastic according to UL94-0, black
Mounting	clip for 35mm DIN rail, EN 50022 or screw fixing (Ø 5.3mm)
Fitting position	vertical
Operating/Storage temperature	-45to+70°C (-49to158°F)
Protection type/Protection class	IP20/II (double insulated)
Note	other voltages on request



Heating capacity / Ambient temperature diagram
CS 028 / CSL 028



Art. No. clip fixing	Art. No. screw fixing	Series	Operating voltage	Heating capacity *	Inrush current max	Dimensions (H x W x D)	Weight (approx.)
02800.0-00	02800.0-01	CS 028	230VAC, 50/60Hz	150W	12A	75 x 65 x 90mm	0.3kg
02811.0-00	02811.0-01	CSL 028	230VAC, 50/60Hz	250W	9A	90 x 85 x 111mm	0.5kg
02810.0-00	02810.0-01	CSL 028	230VAC, 50/60Hz	400W	15A	90 x 85 x 111mm	0.5kg
02800.9-00	02800.9-01	CS 028	120VAC, 50/60Hz	150W	6A	75 x 65 x 90mm	0.3kg
02811.9-00	02811.9-01	CSL 028	120VAC, 50/60Hz	250W	6A	90 x 85 x 111mm	0.5kg
02810.9-00	02810.9-01	CSL 028	120VAC, 50/60Hz	400W	9A	90 x 85 x 111mm	0.5kg

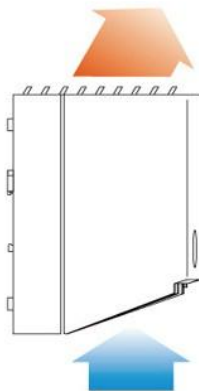
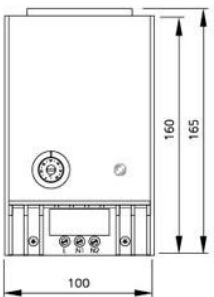
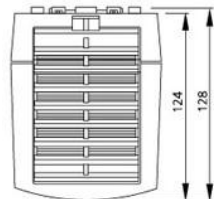
*at 20°C (68°F) ambient temperature

Semiconductor Fan Heater CR 027

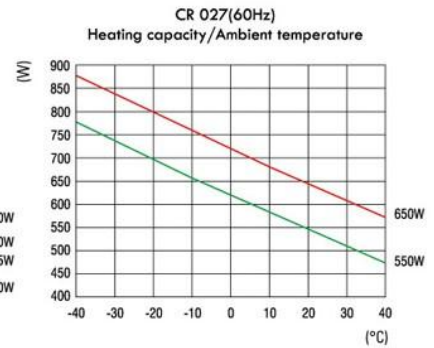
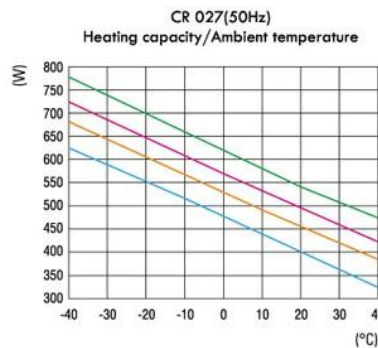


- Compact heater
- Heating capacity adjusts to ambient temperature
- Adjustable temperature range
- Clip fixing
- Optical indicator
- Temperature safety cut-out

Semiconductor fan heaters prevent the formation of condensation and ensure even temperature in switch and control equipment. The built-in regulator is used to set the desired temperature.



Heating element	PTC resistor, self regulating and temperature limiting
Temperature safety cut-out	to protect against overheating in case of fan failure
Axial fan, ball bearing	airflow see table
Service life	service life 50,000h at 25°C (77°F)
Casing	plastic according to UL94 V-0, Light grey
Optical indicator	thermostat control lamp
Connection	2-pole clamp 2.5mm ² , clamping torque 0.8Nm max.
Mounting	clip for 35mm DIN rail, EN 60715
Fitting position	vertical
Operating / Storage temperature	0 to +60 °C (-32 to +140°F)
Operating / Storage temperature	-45 to +70 °C (-49 to +158°F)
Dimensions	100 x 128 x 165mm
Protection type/Protection class	IP20/II(double insulated)
Approvals	CE



Art.No.	Operating voltage VAC 50/60Hz	Heating capacity 50Hz	Heating capacity 60Hz	inrush current max.	Airflow free flow	Setting range Temp. regulator	Weight (approx.)
02700.0-00	220-240VAC	475W	550W	11.0A	35m ³ /h	0~60°C	0.90kg
02701.0-00	220-240VAC	550W	650W	13.0A	45m ³ /h	0~60°C	1.10kg
02700.9-00	100-120VAC	400W	550W	14.0A	35m ³ /h	32~140°F	0.90kg
02701.9-00	100-120VAC	510W	650W	15.0A	45m ³ /h	32~140°F	1.10kg

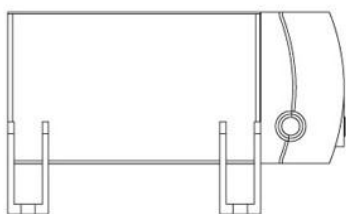
*20°C (68°F) ambient temperature



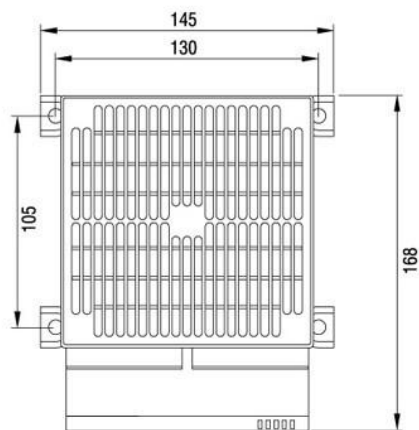
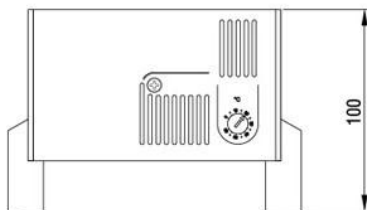
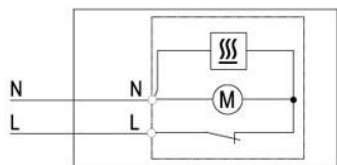
- Compact design
- Double insulated
- Integrated thermostat or hygrostat

The compact high performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric / electronic components. The plastic housing provides double insulation and acts as protection against contact. The fan heater is available with integrated thermostat or pre-set hygrostat for temperature or humidity control. The CR 030 was designed as a stationary unit for the bottom of the enclosure. For wall fixing the fan heater CR 130 is recommended.

Heating element	high performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Heater body	extruded aluminium profile
Axial fan, ball bearing	airflow 160m ³ /h, free flow service life 50,000h at 25°C (77°F)
Connection	2-pole max. 2.5mm ² , clamping screw with strain relief, torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	screw fixing (M5)
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Dimensions	168 x 145 x 100mm
Weight	approx. 1.4kg
Operating ¹ / Storage temperature	-45 to +70 °C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)



Technical drawing



Art. No.	Model	Operating voltage	Heating capacity	Setting range ²
03051.0-00	Fan Heater with thermostat	230VAC, 50/60Hz	950W	0 ~ +60°C
03051.0-02	Fan Heater with hygrostat	230VAC, 50/60Hz	950W	65% RH
03091.9-00	Fan Heater with thermostat	120VAC, 50/60Hz	950W	0 ~ +60°C

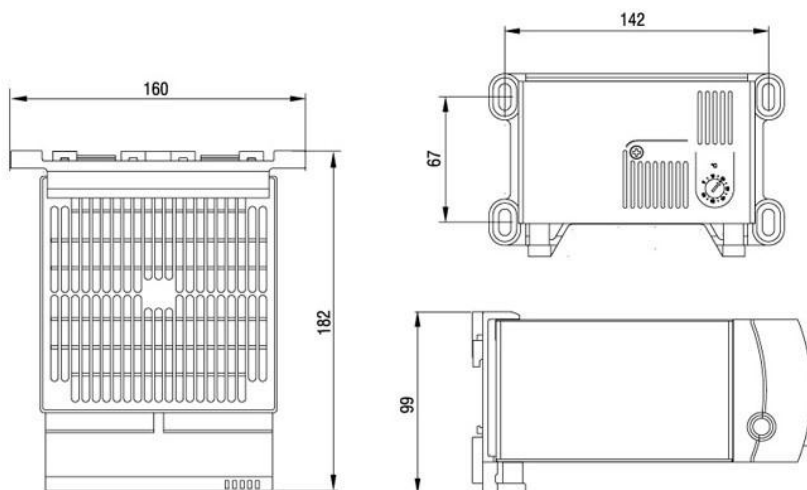
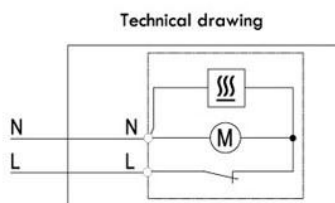
Compact High-performance Fan Heater CR 130 Series



- Compact design
- Double insulated
- Integrated thermostat or hygrostat
- Optional clip or screw fixing

The compact high performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric / electronic components. The plastic housing provides double insulation and acts as protection against contact. The fan heater is available with integrated thermostat or pre-set hygrostat for temperature or humidity control. The CR 130 was designed as a stationary unit for wall fixing. For fixing on the bottom of the enclosure the fan heater CR 030 is recommended.

Heating element	high performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Heater body	extruded aluminium profile
Axial fan, ball bearing	airflow 160m ³ /h, free flow, service life 50,000h at 25°C (77°F)
Connection	2-pole max. 2.5mm ² , clamping screw with strain relief, torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 60715 or screw fixing (M6)
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Dimensions	182 x 160 x 99mm
Weight	approx. 1.5kg
Operating ¹ / Storage temperature	-45 to +70 °C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)



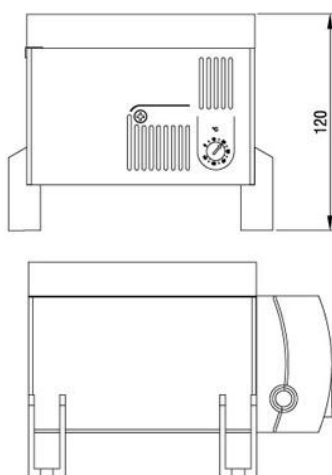
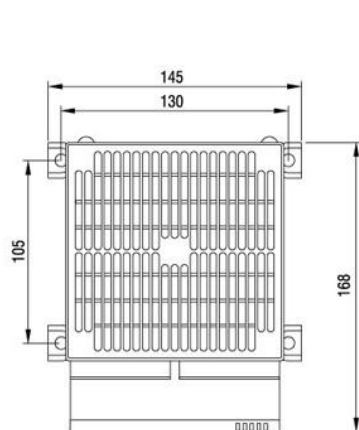
Art. No.	Model	Operating voltage	Heating capacity	Setting range ²
13051.0-00	Fan Heater with thermostat	230VAC, 50/60Hz	950W	0 ~ +60°C
13051.0-02	Fan Heater with hygrostat	230VAC, 50/60Hz	950W	65% RH
13059.9-00	Fan Heater with thermostat	120VAC, 50/60Hz	950W	+32 ~ +140°C



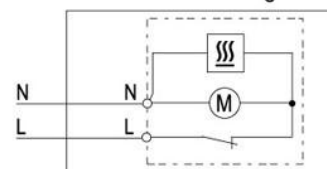
- Compact design
- High heating performance
- Double insulated
- Integrated thermostat or hygrostat

The compact high performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric / electronic components. The plastic housing provides double insulation and acts as protection against contact. The fan heater is available with optional integrated thermostat for temperature control. The CS 030 was designed as a stationary unit for the bottom of the enclosure. For wall fixing the fan heater CS 130 is recommended.

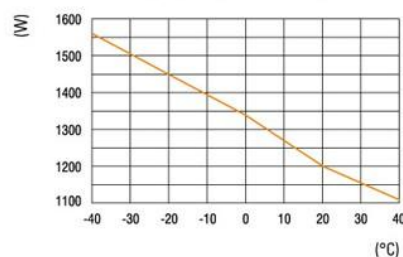
Heating element	PTC resistor - temperature limiting
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Axial fan, ball bearing	airflow 160m ³ /h, free flow service life 50,000h at 25°C (77°F)
Connection	2-pole max. 2.5mm ² , clamping screw with strain relief, torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	screw fixing (M5)
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Dimensions	168 x 145 x 120mm
Weight	approx. 1.2kg
Operating / Storage temperature	-45 to +70 °C (-49 to +158 °F)
Protection type / Protection class	IP20 / II (double insulated)



Technical drawing



Heating capacity/Ambient temperature



Art. No.	Model	Operating voltage	Heating capacity ¹	Inrush current max.	Setting range ²
03060.0-00	Fan Heater with thermostat	230VAC, 50/60Hz	1,200W	13A	0 ~ +60°
03060.0-01	Fan Heater without thermostat	230VAC, 50/60Hz	1,200W	13A	—
03060.9-00	Fan Heater with thermostat	120VAC, 50/60Hz	1,200W	16A	+32 ~ +140°
03060.9-01	Fan Heater without thermostat	120VAC, 50/60Hz	1,200W	16A	—

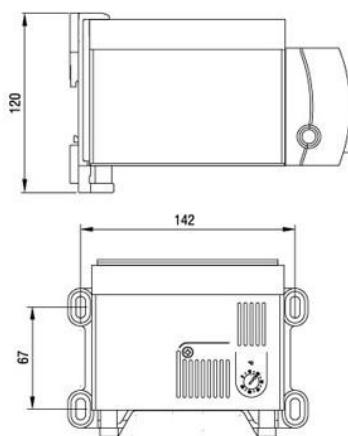
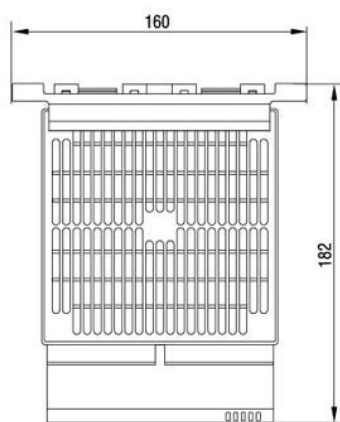
Compact High-performance Fan Heater (Semiconductor) CS 130 Series



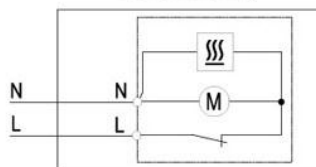
- Compact design
- High heating performance
- Double insulated
- Integrated thermostat (optional)
- Optional clip or screw fixing

The compact high performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric / electronic components. The plastic housing provides double insulation and acts as protection against contact. The fan heater is available with optional integrated thermostat for temperature control. The CS 130 was designed as a stationary unit for wall fixing. For fixing on the bottom of the enclosure the fan heater CS 030 is recommended.

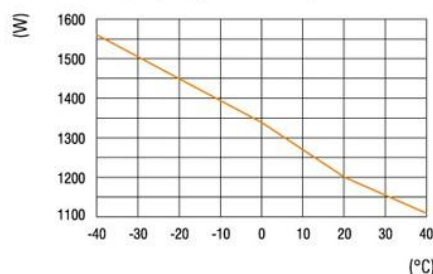
Heating element	PTC resistor - temperature limiting
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Axial fan, ball bearing	airflow 160m ³ /h, free flow service life 50,000h at 25°C (77°F)
Connection	2-pole max. 2.5mm ² , clamping screw with strain relief, torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 60715 or screw fixing (M6)
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Dimensions	182 x 160 x 120mm
Weight	approx. 1.3kg
Operating / Storage temperature	-45 to +70 °C (-49 to +158°F)
Protection type / Protection class	IP20 / II (double insulated)



Technical drawing



Heating capacity/Ambient temperature



Art. No.	Model	Operating voltage	Heating capacity ¹	Inrush current max.	Setting range ²
13060.0-00	Fan Heater with thermostat	230VAC, 50/60Hz	1,200W	13A	0 ~ +60°
13060.0-01	Fan Heater without thermostat	230VAC, 50/60Hz	1,200W	13A	—
13060.9-00	Fan Heater with thermostat	120VAC, 50/60Hz	1,200W	16A	+32 ~ +140°
13060.9-01	Fan Heater without thermostat	120VAC, 50/60Hz	1,200W	16A	—



■ High degree of protection

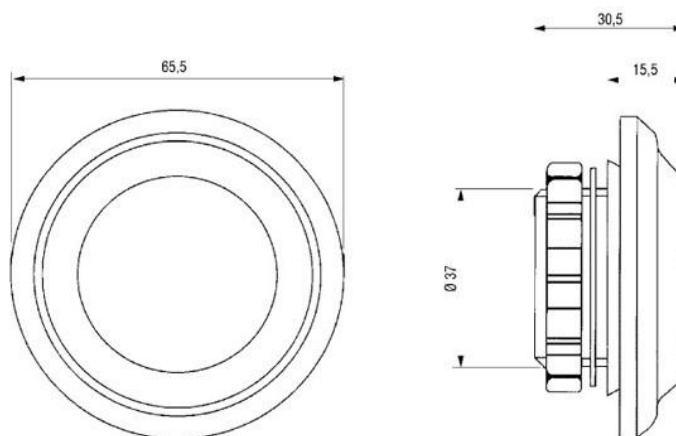
It has become more and more important to provide a protected enclosure environment for valuable and crucial electrical and electronic components. In a tightly closed enclosure, pressure differentials can occur during extreme temperature variations. The specially designed pressure compensation device DA 084 permits a controlled change in pressure and avoids the entering of dust and water. The pressure compensation device is suitable for the use in enclosures and housings in accordance with DIN EN 62208.

■ Easy to install

Mounting	PG 29 thread with union nut
Material	plastic according to UL94 V-0
Air interface	approx. 7cm ²
Dimensions	φ 65.5×30.5mm
Operating / Storage temperature	-45 to +70°C (-49 to +158°F)
Art. No.	DA 084
Description	mount pressure compensation device
Protection type	IP45
1 packing unit	2 pieces
Weight	31 g/pieces

Installation

Make cut-out φ 37⁻¹mm in enclosure wall and mount pressure compensation device with nut. Please make sure that the sealing gasket is put in place on the outer side panel of the enclosure. For optimal pressure compensation we recommend to use two devices on opposite sides towards the top of the enclosure.



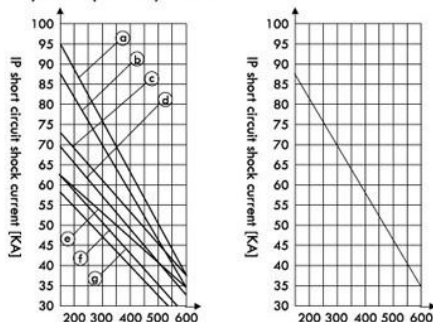
Art. No.	Protection type	1 packing unit	Weight (approx.)
08400.0-04	IP55	2 pieces	62g (31 g/piece)



Busbar System



SV1/SV2/SV3/SV4



Centre distance of bus stand(mm)

New type adjustable busbar holder

Design:

With the wiring techniques of wire section material and bus-bar without pinholes adopted, the bending-proof intensity and short-circuit-proof capacity of the bus-bar are improved, and it also helps to cool the bus-bar, lower the temperature and increase current capacity.

The Linkwell bus-bar system has been used to develop various switches. The system is also widely used in low-voltage electricity supply and distribution devices and industrial and building electric appliances.

Material:

Glass fibre strengthened, thermoplastic polyester (PBT), continuous working temperature maximum 140°C.

Fireproofing function based on UL94-V0

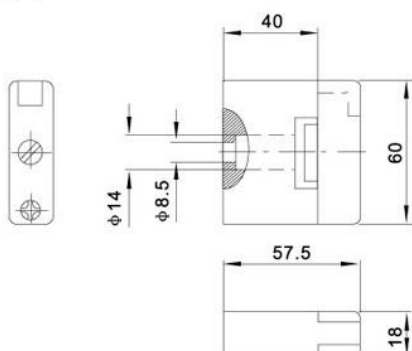
Short-circuit-proof intensity graph

Testing base: VDE 0660/IEC 439

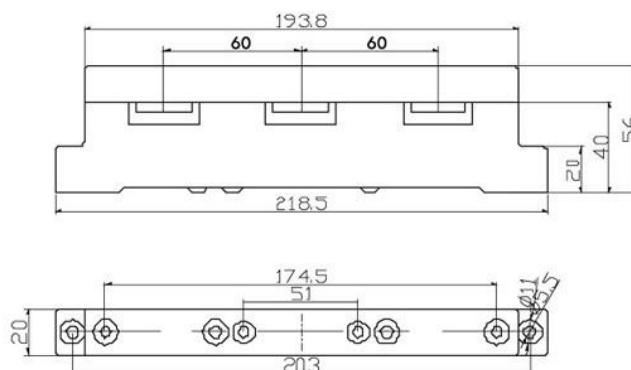
Testing process: according to dynamic short-circuit intensity of IEC 439.

New Generation SV Bus-bar Holder

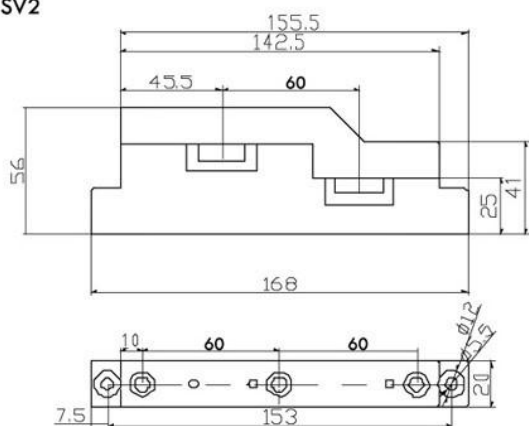
SV1



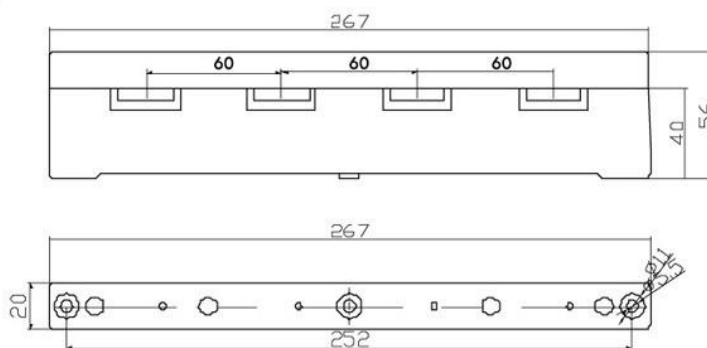
SV3



SV2



SV4



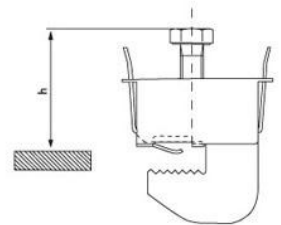
Rated working voltage up to 1000 volt,50/60 Hz.according to VDE 0660

Rated current up to	Number of poles	Centre distance of bus stand	Suitable for Busbar size	Tightening turning moment		Per package	Model
				Fixed screw	Fixed the cover		
800	1	—	30X10mm	5-8Nm	1-3Nm	2	SV1
800	2	60mm	30X10mm,30X5mm,25x10mm,25x5mm,20x10mm,20x5mm,15x10mm,15x5mm,12x10mm,12x5mm	3-5Nm	1-3Nm	2	SV2
800	2	60mm	30X10mm,30X5mm,25x10mm,25x5mm,20x10mm,20x5mm,15x10mm,15x5mm	3-5Nm	1-3Nm	2	SV3
800	4	60mm	30X10mm,30X5mm,25x10mm,25x5mm,20x10mm,20x5mm,15x10mm,15x5mm	3-5Nm	1-3Nm	2	SV4



SV Busbar terminal

Minimum H (mm)	Maximum H (mm)	Type SV
17	23	201/206
22	29	202/207
26	39	203/208
39	57	204/209
44	66	205/210

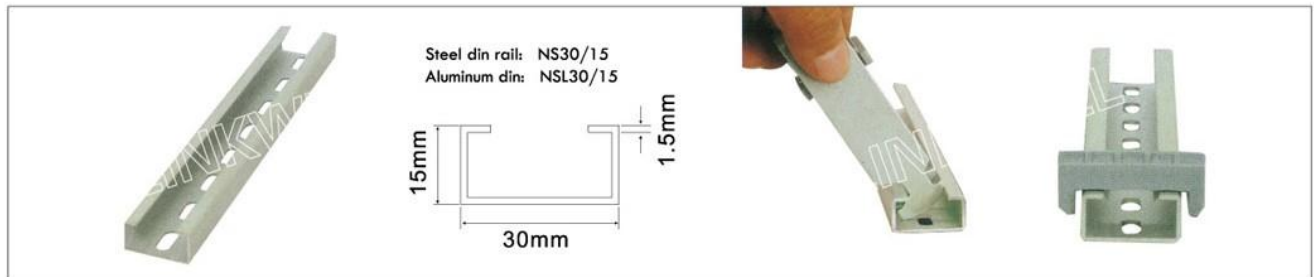
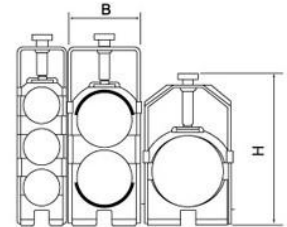


Thickness of bus	Round lead wiring*	Piled copper bus terminal space	Torque	Per package	Type SV
4-5mm	1-4mm ²	-	2Nm	50pcs	201
4-5mm	2.5-16mm ²	8 x 8mm	3Nm	50pcs	202
4-5mm	16-50mm ²	10.5 x 11mm	6-8Nm	50pcs	203
4-5mm	35-70mm ²	16.5 x 15mm	10-12Nm	50pcs	204
4-5mm	70-185mm ²	22.5 x 20mm	12-15Nm	50pcs	205
9-10mm	1-4mm ²	-	2Nm	50pcs	206
9-10mm	2.5-16mm ²	8 x 8mm	3Nm	50pcs	207
9-10mm	16-50mm ²	10.5 x 11mm	6-8Nm	50pcs	208
9-10mm	35-70mm ²	16.5 x 15mm	10-12Nm	50pcs	209
9-10mm	70-185mm ²	22.5 x 20mm	12-15Nm	50pcs	210

New BK Cable clamp series

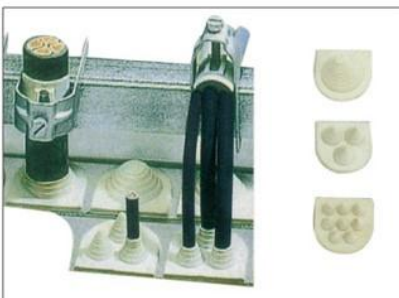


Material & Specification		Cable diameter Φ (mm)	Size(mm)	
Galvanized steel	Stainless steel		B	H
BK14	BK14E	6-12	21	70
BK18	BK18E	12-18	23	70
BK22	BK22E	18-22	27	75
BK30	BK30E	22-30	39	85
BK38	BK38E	30-38	45	90
BK42	BK42E	38-42	47	95
BK50	BK50E	42-50	57	120
BK64	BK64E	50-64	70	130
BK70	BK70E	64-72	77	165
BK80	BK80E	72-82	87	183
BK100	BK100E	95-102	108	217



US8/US3/US1

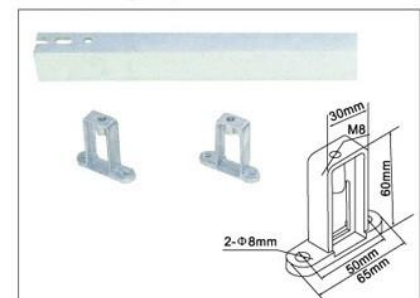
It could tightly clutch different cable on the bottom of the case. It is used together with a cable leading board.



Model	Diameter mm	Cable Number
US8	13	8
US3	21	3
US1	47	1

JU-1

Cable clamp rails with galvanized triangle. 40 x 40 length optional



A new generation of power distribution box

Material

- PA, Polyamide 66, 94V-2 grade. inflaming retarding, good resist dissolve, good bounce impact force, Working Temperature:- 30°C to 110°C.
- Brass ,screw is Iron plated zinc.
- Cover Color: clear/ Blue color.



Model no.	Code	No.of poles	Number of poles (perpole)	Flexible wire with power fitting (mm²)	Solid wire (mm²)	Dimensions LengthxHeightxDepth (mm)	Nominal current (A)	KA	Installation voltage according to EN60947-1(V)
LK-207	02884	2	5xΦ6mm 2xΦ7.5mm	1.5-6 6-16	2.5-6 10-25	65x51x45	125	18	500
LK-211	02886	2	7xΦ6mm 2xΦ7.5mm 2xΦ9mm	1.5-6 6-16 10-25	2.5-6 10-25 10-35	100x51x45	125	18	500
LK-215	02888	2	11xΦ6mm 2xΦ7.5mm 2xΦ9mm	1.5-6 6-16 10-25	2.5-6 10-25 10-35	132x51x45	125	18	500
LK-407	04884	4	5xΦ6mm 2xΦ7.5mm	1.5-6 6-16	2.5-6 10-25	65x51x88	125	20	500
LK-411	04886	4	7xΦ6mm 2xΦ7.5mm 2xΦ9mm	1.5-6 6-16 10-25	2.5-6 10-25 10-35	100x51x88	125	20	500
LK-415	04888	4	11xΦ6mm 2xΦ7.5mm 2xΦ9mm	1.5-6 6-16 10-25	2.5-6 10-25 10-35	132x51x88	125	20	500



Type	Size	Terminals per pole
UK207 Solid core lead multistrand lead [mm*]	L H W	2 pole
EN60947-1 1.5-6mm² 6-16mm² CE Certificate	94x50 x44mm	1 x16mm² 1 x25mm² 5 x6mm²
KA rating pead Max. Current100A Voltage 500V	For □ type	



Type	Size	Terminals per pole
UK407 Solid core lead multistrand lead [mm*]	L H W	4 pole
EN60947-1 1.5-6mm² 6-16mm² 10-25mm² CE Certificate	109x50 x85mm	1 x16mm² 1 x25mm² 5 x6mm²
KA rating pead Max. Current100A Voltage 500V	For □ type	



Type	Size	Terminals per pole
UK411 Solid core lead multistrand lead [mm*]	L H W	4 pole
EN60947-1 1.5-6mm² 6-16mm² 10-25mm² 10-35mm² CE Certificate	147x50 x85mm	3 x16mm² 1 x25mm² 7 x6mm²
KA rating pead Max. Current100A Voltage 500V	For □ type	



Type	Size	Terminals per pole
UK415 Solid core lead multistrand lead [mm*]	L H W	4 pole
EN60947-1 1.5-6mm² 6-16mm² 10-25mm² 2.5-6mm² 10-35mm² CE Certificate	182x50 x85mm	3 x16mm² 1 x25mm² 11 x6mm²
KA rating pead Max. Current100A Voltage 500V	For □ type	



- Space saving: compact
- Tinned copper block: high conductivity
- IP 20 protection/UL finger-safe: improved safety
- Cable fixing screw diameters >95% fill ratio: excellent electrical contact,
- safe connections
- Visual inspection of wire: confirmation of connection
- Hinged or removable cover: easy wiring
- Clip-on DIN rail or mount to panel with screws: easy fixing

Attachment

UJ



TF 250A

TF 400A



LK 80 A



LK-80A

CE RoHS

80A IEC 60947-7-1

85 Amp (UL certification application)

Modular: keeping only one input, the blocks can be connected in parallel using a jumper wire. Easily double or triple the neutral.

Metric system	mm ²			T(N.m)
	6...16	x1		3.5
	2.5...6	x4		1.2
	2.5...16	x2		3.5

U.S. Regulations	AWG			Torque
	16...4	x1		19.5
	16...8	x4		10.6
	16...4	x2		19.5

I=80 A IEC
I=85 A UL/CSA
□ Icw KA rms Is: 3
□ IPk KA: 22
□ Ui: 690V IEC
□ Vm: 600 V UL



Installation Hole: 54mm

LK 125 A



LK-125A

CE RoHS

125A IEC 60947-7-1

150 Amp (UL certification application)

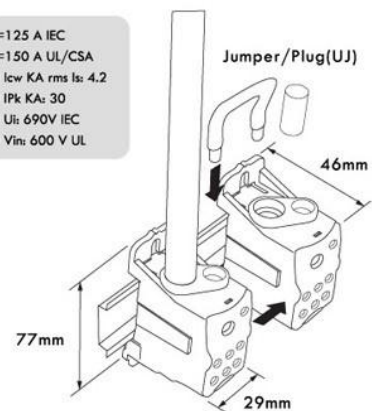
Modular: keeping only one input, the blocks can be connected in parallel using a jumper wire. Easily double or triple the neutral.

Metric system	mm ²			T(N.m)
	10...35	x1		8.5
	6...16**	x1		3.5
	2,5...16	x6		3.5

** or common jumper

U.S. Regulations	AWG			Torque
	8...1/0	x1		57
	14...4	x1		31
	14...4	x6		31

I=125 A IEC
I=150 A UL/CSA
□ Icw KA rms Is: 4.2
□ IPk KA: 30
□ Ui: 690V IEC
□ Vm: 600 V UL



Installation Hole: 64mm

LK 160 A



LK-160A

CE RoHS

160A IEC 60947-7-1

200 Amp (UL certification application)

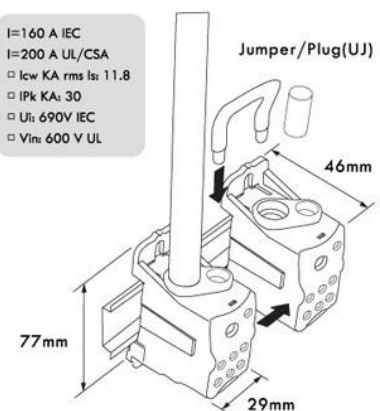
Modular: keeping only one input, the blocks can be connected in parallel using a jumper wire. Easily double or triple the neutral.

Metric system	mm ²			T(N.m)
	10...70	x1		8.5
	6...16**	x1		3.5
	2,5...16	x6		3.5

** or common jumper

U.S. Regulations	AWG			Torque
	8...3/0	x1		75
	14...4	x1		31
	14...4	x6		31

I=160 A IEC
I=200 A UL/CSA
□ Icw KA rms Is: 11.8
□ IPk KA: 30
□ Ui: 690V IEC
□ Vm: 600 V UL



Installation Hole: 64mm

A new generation of power distribution box

LK 250 A



LK-250A

CE RoHS

250A IEC 60947-7-1

255 Amp (UL certification application)

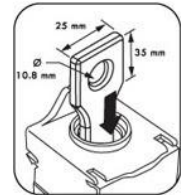
Modular: allows versatile building of power blocks single pole, two pole, three pole or four pole.

Metric system	mm ²	mm ²		I(N.m)
	35...120		x1	19
	6...35	6...25	x2	4.4
	2.5...16	2.5...16	x5	2.7
	2.5...10	2.5...10	x4	2.7

U.S. Regulations	AWG		Torque
	6...250 Kcmil	x1	221
	14...1	x2	39
	14...4	x5	24
	14...6	x4	24

I=250 A IEC
I=255 A UL/CSA
□ Icw KA rms Is: 24.5
□ IPk KA: 51
□ Ui: 690V IEC
□ Vm: 600 V UL

Flexible with TF 250A busbar connection with the TH



Junction box is directly connected with the switch

Installation Hole: 85x29mm

LK 400 A



LK-400A

CE RoHS Conform to

400A IEC 60947-7-1

335 Amp (UL certification application)

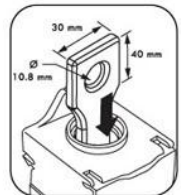
Modular: allows versatile building of power blocks single pole, two pole, three pole or four pole.

Metric system	mm ²	mm ²		I(N.m)
	95...185		x1	25
	6...35	6...25	x2	4.4
	2.5...16	2.5...16	x5	2.7
	2.5...10	2.5...10	x4	2.7

U.S. Regulations	AWG		Torque
	3/0...400 Kcmil	x1	221
	14...1	x2	39
	14...4	x5	24
	14...6	x4	24

I=400 A IEC
I=335 A UL/CSA
□ Icw KA rms Is: 24.5
□ IPk KA: 51
□ Ui: 690V IEC
□ Vm: 600 V UL

Flexible with TF 400A busbar connection with the TH



Junction box is directly connected with the switch

Installation Hole: 85x29mm

LK 500 A



LK-500A

CE RoHS

500A IEC 60947-7-1

520 Amp (UL certification application)

Modular: allows versatile building of power blocks single pole, two pole, three pole or four pole.

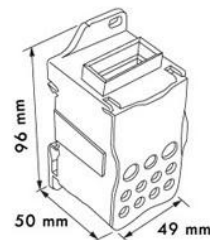
Metric system	mm ²	mm ²		I(N.m)
	4x15.5x0.8 ...8x24x1	4x15.5x0.8 ...8x24x1		10
	6...35	6...25	x2	4.4
	2.5...16	2.5...16	x5	2.7
	2.5...10	2.5...10	x4	2.7

U.S. Regulations	AWG		Torque
	4x15.5x0.8 ...8x24x1		88.5
	14...1	x2	39
	14...4	x5	24
	14...6	x4	24

I=500 A IEC
I=520 A UL/CSA
□ Icw KA rms Is: 24.5
□ IPk KA: 51
□ Ui: 690V IEC
□ Vm: 600 V UL

TH flexible busbar

	4 x 15.5 x 0.8
	6 x 15.5 x 0.8
	2 x 20 x 1
	3 x 20 x 1
	4 x 20 x 1
	5 x 20 x 1
	6 x 20 x 1
	2 x 24 x 1
	3 x 24 x 1
	4 x 24 x 1
	5 x 24 x 1
	6 x 24 x 1
	8 x 24 x 1



Installation Hole: 85x29mm



Technical data of electrical conductor

- Copper strips ($\geq 99.9\% \text{Cu}$).
- Surface: uncoated or tinned.
- Resistivity: $\leq 1.785 \mu\Omega/\text{cm}^2/\text{cm}$.
- Electrical conductivity: $\geq 55 \text{ Sm}/\text{mm}^2$.
- Tensile strength: $\geq 200 \text{ N}/\text{mm}^2$.
- Extensibility: $\geq 30\%$.

Technical data of insulation

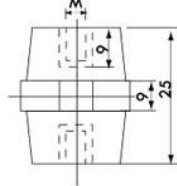
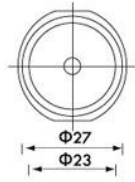
- Material: PVC. Color: black.
- Thickness: 1.8-2.1mm.
- Shore hardness: A70-80.
- Electrical strength: $\geq 23 \text{ kV}/\text{mm}$.
- Oxygen index: 30%.
- Flame retardant; self-extinguishing.
- Elasticity: $\geq 180\%$ after 7-day aging-test with 135°C .
- Tensile strength: $\geq 20 \text{ MPa}$.

Technical data of flexible insulated busbars

- Operating temperature: -30°C to $+105^\circ\text{C}$.
- Operating voltage: 750V.
- Voltage withstand performance with 15min / 50Hz AC:
 - between flexible insulated busbar and earth: $\geq 15 \text{ kV}$.
 - between two flexible insulated busbars: $\geq 30 \text{ kV}$.

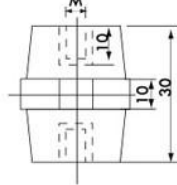
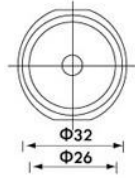
Dimensions and Qty. of strips	Cross section (mm ²)	Ampacity (A)			Dimensions and Qty. of strips	Cross section (mm ²)	Ampacity (A)		
		$\triangle$ T=20K (3)	$\triangle$ T=40K (4)	$\triangle$ T=50K (5)			$\triangle$ T=20K (3)	$\triangle$ T=40K (4)	$\triangle$ T=50K (5)
15.5 x 0.8 x 2	24.8	125	175	200	40 x 1 x 2	80	240	330	380
15.5 x 0.8 x 3	37.2	160	210	240	40 x 1 x 3	120	330	480	540
15.5 x 0.8 x 4	49.6	195	265	295	40 x 1 x 4	160	400	560	630
15.5 x 0.8 x 6	74.4	225	320	360	40 x 1 x 5	200	450	630	710
15.5 x 0.8 x 8	99.2	265	380	430	40 x 1 x 6	240	480	680	750
15.5 x 0.8 x 10	124	300	420	480	40 x 1 x 8	320	600	830	920
20 x 1 x 2	40	170	240	270	40 x 1 x 10	400	670	920	1030
20 x 1 x 3	60	230	320	360	50 x 1 x 3	150	400	570	650
20 x 1 x 4	80	270	380	440	50 x 1 x 4	200	490	700	790
20 x 1 x 5	100	300	430	490	50 x 1 x 5	250	540	780	880
20 x 1 x 6	120	330	470	530	50 x 1 x 6	300	590	840	950
20 x 1 x 8	160	400	560	620	50 x 1 x 8	400	680	1000	1130
20 x 1 x 10	200	420	580	650	50 x 1 x 10	500	750	1100	1300
24 x 1 x 2	48	200	280	320	63 x 1 x 5	315	650	900	1000
24 x 1 x 3	72	250	360	410	63 x 1 x 6	378	690	980	1100
24 x 1 x 4	96	280	410	460	63 x 1 x 8	504	840	1200	1350
24 x 1 x 5	120	330	470	530	63 x 1 x 10	630	920	1300	1450
24 x 1 x 6	144	360	510	570	80 x 1 x 5	400	700	1100	1230
24 x 1 x 8	192	420	590	670	80 x 1 x 6	480	780	1210	1360
24 x 1 x 10	240	500	700	790	80 x 1 x 8	640	950	1400	1570
32 x 1 x 2	64	230	320	360	80 x 1 x 10	800	1090	1550	1730
32 x 1 x 3	96	280	410	460	100 x 1 x 5	500	860	1250	1400
32 x 1 x 4	128	320	460	520	100 x 1 x 6	600	950	1380	1530
32 x 1 x 5	160	390	550	610	100 x 1 x 8	800	1100	1580	1760
32 x 1 x 6	192	440	620	700	100 x 1 x 10	1000	1220	1710	1920
32 x 1 x 8	256	510	720	822	100 x 1 x 12	1200	1300	1800	2010
32 x 1 x 10	320	600	840	930					

SM25



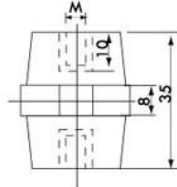
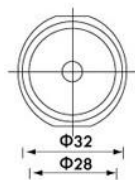
Tensile strength(LBS)	500
Torgue strength(LBS)	6
Voltage withstand(KV)	6
screw(mm)	6
weight(G)	28

SM30



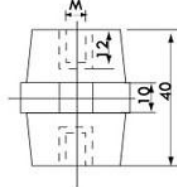
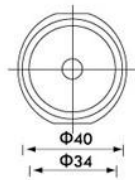
Tensile strength(LBS)	550
Torgue strength(LBS)	8
Voltage withstand(KV)	8
screw(mm)	8
weight(G)	44

SM35



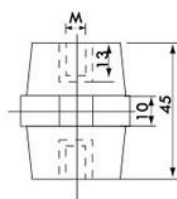
Tensile strength(LBS)	800
Torgue strength(LBS)	10
Voltage withstand(KV)	10
screw(mm)	8
weight(G)	50

SM40



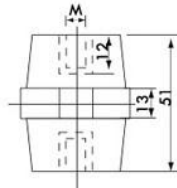
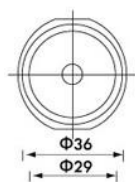
Tensile strength(LBS)	650
Torgue strength(LBS)	10
Voltage withstand(KV)	12
screw(mm)	8
weight(G)	86

SM45



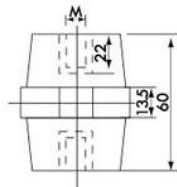
Tensile strength(LBS)	1000
Torgue strength(LBS)	20
Voltage withstand(KV)	15
screw(mm)	10
weight(G)	70

SM51



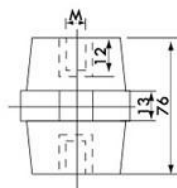
Tensile strength(LBS)	1000
Torgue strength(LBS)	20
Voltage withstand(KV)	15
screw(mm)	8
weight(G)	83

SM60

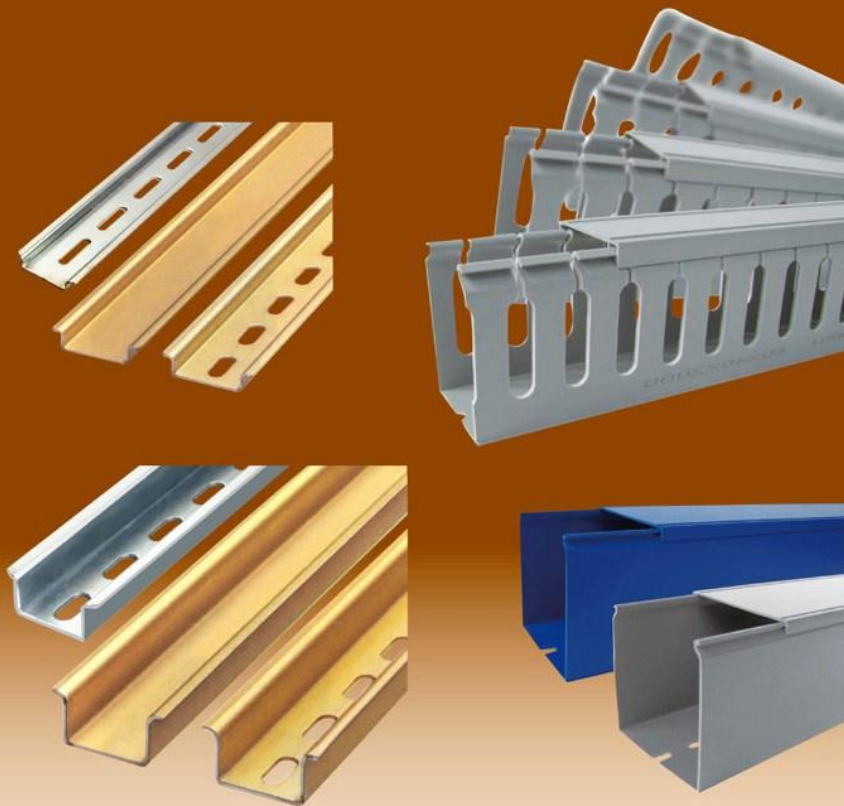


Tensile strength(LBS)	1500
Torgue strength(LBS)	40
Voltage withstand(KV)	25
screw(mm)	10
weight(G)	170

SM76



Tensile strength(LBS)	1500
Torgue strength(LBS)	40
Voltage withstand(KV)	25
screw(mm)	10
weight(G)	233



Din rail/Wiring duct —

Din rail

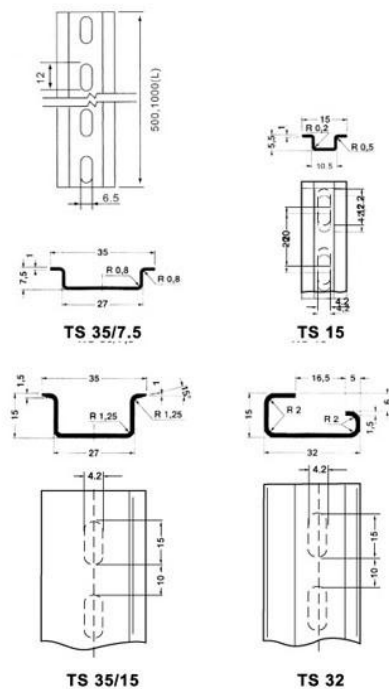
The din rail is designed according to the new Europe standard EN 50 022, EN 50 035 and EN 50 045.

It has a precise height, strict tolerance, fine surface and good finish. The steel din rail has been zinc plated and yellow processed.

For the convenience of installing and making holes, there is a line printed on the center of din rail which also exists on the aluminum din rail.

All the din rail can be cut into different length and can be with round hole, long hole, or without hole.

According to Part 3 of DIN VDE 0611, the din rail can act as the general earth wire (PE function), but without function as neutral wire (PEN).



Din rail
TS 15/5.5

Type

Din rail
According to EN 50 045-15×5.5mm
Made of steel, yellow or white zinc plated
Length: 2meters, or 1meter

Quantity
of each
package

TS 15/5.5 With hole, or Without hole 1



Din rail
TS 35/7.5

Type

Din rail
According to EN 50 022-35×7.5mm
Made of steel, yellow or white zinc plated
Length: 2meters, or 1meter

Quantity
of each
package

TS 35/7.5 With hole, or Without hole 1



Din rail
TS 35/15

Type

Din rail
According to EN 50 022-35×15mm
Made of thick steel plate of 1.5mm
Yellow or white zinc plated
Length: 2meters, or 1meter

TS 35/15 With hole, or Without hole 1



Din rail
TS 32

Type

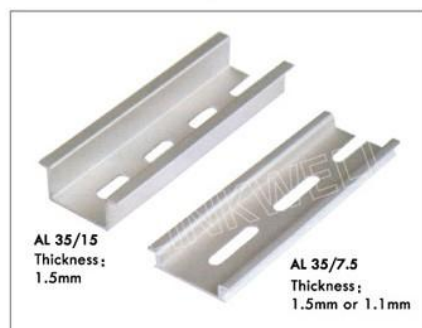
Din rail
According to EN 50 035-G 32
Made of steel yellow or white zinc plated
Without hole
Length: 2meters, or 1meter

TS 32 With hole, or Without hole 1

Support shelf for din rail TSTW



Din rail of aluminum alloy AL 35/7.5-15



Din rail cutter TS-2





Cabinet Accessories

T5 Fluorescent Cabinet Lamp



- High brightness, small size, with on/off switch
- High lighting effect, save 55% power
- Long life non flicker and can start by low voltage
- T5 Fluorescent with Opal Cover, Or with Striate Cover

Model	Power	Voltage	Frequency	PF	IP Rate	Color Temperature	Dimensions (mm)	QTY/CTN
LK-Y5D04 A/B	4W						156×24×40	60
LK-Y5D06 A/B	6W						255×24×40	30
LK-Y5D08 A/B	8W						309×24×40	30
LK-Y5D14 A/B	14W						571×24×40	30
LK-Y5D18 A/B	18W	110/230V AC	50/60Hz	0.95	IP20	2700/4100/6500	731×24×40	30
LK-Y5D21 A/B	21W						871×24×40	30
LK-Y5D26 A/B	26W						1021×24×40	30
LK-Y5D28 A/B	28W						1171×24×40	30

A: Opal cover

B: Striate Clear Cover

T5 LED Cabinet Lamp

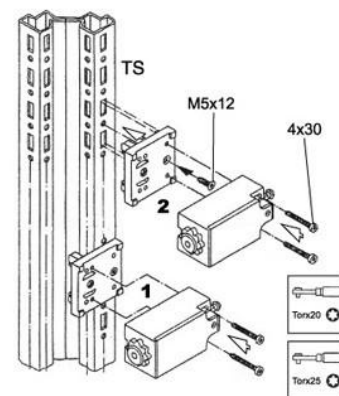
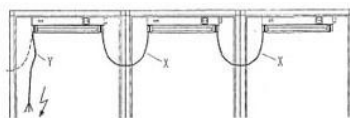
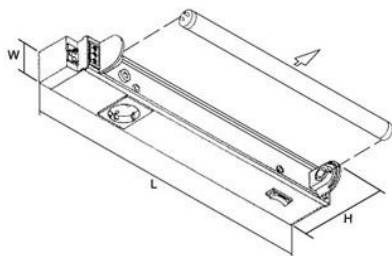
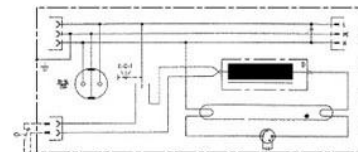
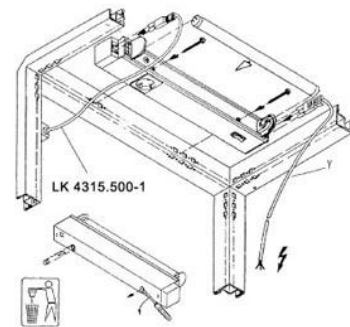


- The LED Lighting has no strobe, no infrared and ultraviolet, radiation free, Mercury free protect the natural environment
- High-quality LED chips as the illuminant, save more power, LED chip is antistatic.
- LED chips are solid encapsulation, they belong to cold light type, impact resistance, shockproof, easy for installation.
- Start fast, Long life: operation life about 50 thousand hours.

Model	LED (PCS)	Power	Voltage	Frequency	IP Rate	Dimensions (mm)	Luminance (Lm)
LK-L5N07 A/B	120	7W				575×22×29	600/700LM
LK-L5N08 A/B	150	8W				735×22×29	650/780LM
LK-L5N09 A/B	120	9W				575×22×29	705/860LM
LK-L5N10 A/B	150	10W	100/240V AC	50/60Hz	IP20	735×22×29	780/950LM
LK-L5N12 A/B	170	12W				875×22×29	1000/1150LM
LK-L5N14 A/B	220	14W				1025×22×29	1050/1150LM

A: Opal cover

B: Striate Clear Cover



	Type	Type
	LK-4138.10-1	LK-4138.18-1
L mm	425	685
W mm	50	50
H mm	117	117
Pw	10w	18w

X	Y
LK4315.200-1	LK4315.100-1
LK4315.400-1	
LK4315.600-1	

Lamp Cable



Door-Control
Switch



Connection Cable



Power Cable

Type	LK4315.500-1
Cable length(mm)	500
Colour	White

Type	LK4315.200-1	LK4315.600-1	LK4315.4000-1
Cable length(mm)	1000	600	4000
Colour	Orange	Orange	Orange

Type	LK4315.100-3	LK4315.100-2	LK4315.100-1
Cable length(mm)	3000	2000	1000
Colour	Orange	Orange	Orange



Advantage

Slim casing

Electronic ballast

Lamp without/with electrical socket
(choice of sockets)

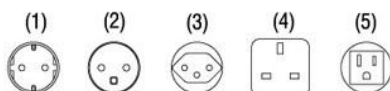
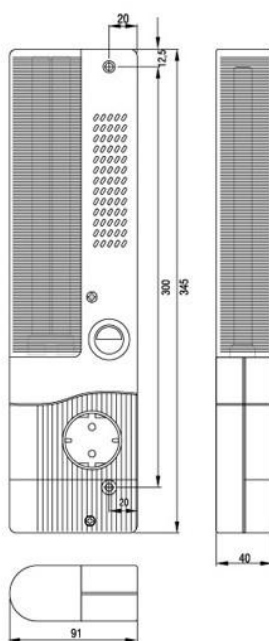
Magnetic fixing (option)

Energy saving lamp

On/Off switch

The flat slimline lamp SL 025 is suitable for all types of panels and enclosures, especially where space is at a premium. The lamp can be mounted on its narrow or broad surface using screws. It is also available with a magnet which allows it to be fitted quickly in any position in a steel enclosure. Both versions are available with an integrated electrical socket enabling the use of additional appliances.

Photo: Slimline lamp with on/off switch, with integrated electric socket (Germany)
SL02520.0-00



Power consumption	11W (equals 75W light bulb)
Luminosity	900Lm
Lamp type	energy saving lamp, 2G7 socket
Service life	10,000h
Switch	on/off light switch
Connection	terminal 2.5mm ² with cable clamp, torque 0.8Nm max.
Mounting	screw fixing, M5, 300mm centers
Casing	plastic according to UL94 V-0, light grey
Dimensions	345x91x40mm
Fitting position	narrow surface/broad surface
Operating/Storage temperature	-20~+50°C (-4~+122°F) / -45~+70°C (-49~+158°F)
Operation type	IP20

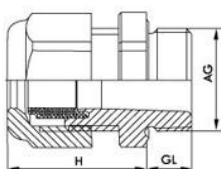
Art.no.	Model	Operating Voltage	Socket	Nominal Current	Weight (approx)	Protection class
SL02520.0-00	without magnet	230VAC, 50/60Hz	Germany/Russia	16.0A	0.40kg	II (earthed)
SL02520.1-01	with magnet	230VAC, 50/60Hz	Germany/Russia	16.0A	0.50kg	II (earthed)
SL02521.0-00	without magnet	230VAC, 50/60Hz	France/Poland	16.0A	0.40kg	II (earthed)
SL02521.1-04	with magnet	230VAC, 50/60Hz	France/Poland	16.0A	0.50kg	II (earthed)

Adhesive tape for panel IF001-16x3 / 5 / 7

IF001-16x3	IF001-16x5	IF001-16x7



PG Plastic waterproof cable gland series



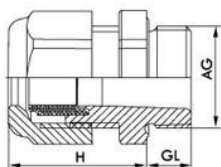
Material: PA66
Sealing material: NBR
Protection level: IP68
Colour: Gray, black

Type normal pg thread	Range of clutch end mm	AG external diameter mm	GL mm	H mm
PG7	3-6.5	12.5	8	20
PG9	4-8	15.2	8	22
PG11	5-10	18.6	8	24
PG13.5	6-12	20.4	9	27
PG16	10-14	22.5	10	28
PG21	13-18	28.3	11	30
PG29	18-25	37.0	11	38
PG36	22-32	47.0	13	45
PG42	32-38	54.0	13	47
PG48	37-44	59.3	14	47

Type normal pg thread	Range of clutch end mm	AG external diameter mm	GL mm	H mm
M12x1.5	3-6.5	12	8	22
M16x1.5	4-8	16	8	26
M20x1.5	6-12	20	9	28
M25x1.5	13-18	25	10	35
M32x1.5	16-21	32	11	34
M40x1.5	22-32	40	14	42
N50x1.5	32-38	50	14	49
M63x1.5	37-44	63	14	50



Material: Nickel plated brass
Clamping object: Nylon (PA)
Sealing material: NBR
Temperature range: -40°C~+100°C , Short-term up to +120°C
Protection level: IP68

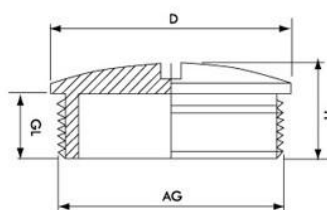


Type normal pg thread	Range of clutch end mm	AG external diameter mm	GL mm	H mm
PG7	3~6	12.5	6	19
PG9	4~8	15.2	7	20
PG11	6~10	18.6	8	21
PG13.5	6~10	20.4	8	22
PG13.5	8~12	20.4	8	22
PG16	8~12	22.5	8	23
PG16	10~14	22.5	9	23
PG21	13~18	28.3	11	25
PG29	18~25	37.0	11	29
PG36	25~32	47.0	13	35
PG42	32~38	54.0	14	37
PG48	37~44	59.3	14	38

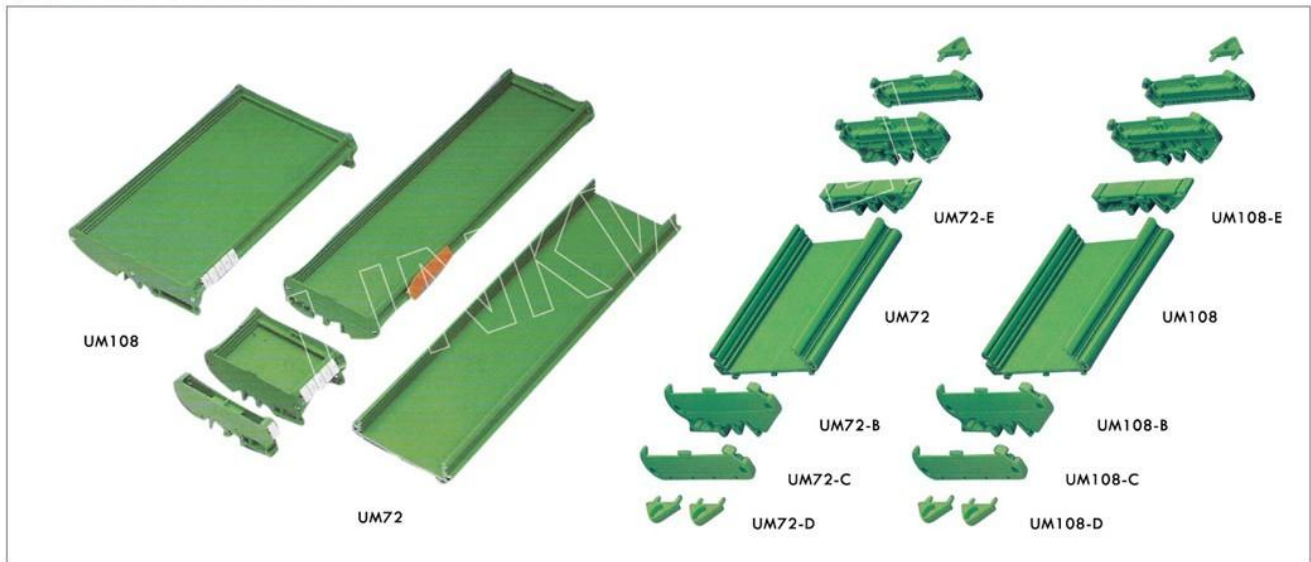
Type normal pg thread	Range of clutch end mm	AG external diameter mm	GL mm	H mm
M12X1.5	3~6	12	6	19
M14X1.5	3~6	14	6	19
M16X1.5	4~8	16	7	20
M18X1.5	6~10	18	8	21
M20X1.5	6~10	20	8	22
M20X1.5	8~12	20	8	22
M22X1.5	8~12	22	8	22
M22X1.5	10~14	22	9	22
M24X1.5	10~14	24	10	23
M27X2	13~18	27	11	25
M30X2	13~18	30	11	25
M33X2	15~22	33	11	28
M36X2	18~25	36	11	29
M42X2	22~28	42	12	29
M48X2	25~32	48	13	35
M54X2	32~38	54	14	37
M60X2	37~44	60	14	38
M64X2	37~44	64	14	38



PGS Plastic head series



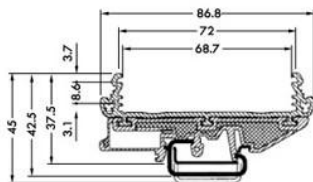
AG PG	PGS7	PGS9	PGS11	PGS13.5	PGS16
GL mm	6	6	6	6	6
H mm	8	9	9	9.5	9.5
D mm	15	19	22	25	27
AG PG	PGS21	PGS29	PGS36	PGS42	PGS48
GL mm	8	8	10	10	12
H mm	11	12	15	16	16
D mm	33	44	55	62	69

**Cut length of section bar according to actual need**

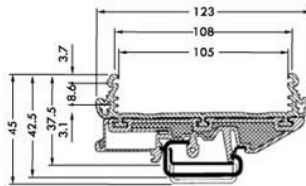
It's possible to cut length of section bar according to your need, precision is mm and there is no fixed size, which can have shell and installed electron circuit match.

It is possible to put three-layer printing circuit board

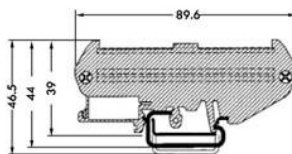
Section bar has leading slot and it can place three-layer printing circuit board. If applying SMD technology, it is possible to come true compact electron circuit.

**Size picture of shell of UM72/108 strip**

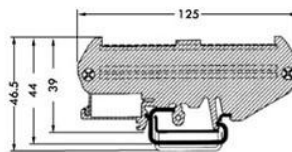
Extrusion section bar of UM72-E
universal installation feet cell



Extrusion section bar with UM108
universal installation feet cell



UM72-B board of side with
universal installation feet



UM 108B board of side with
universal installation feet

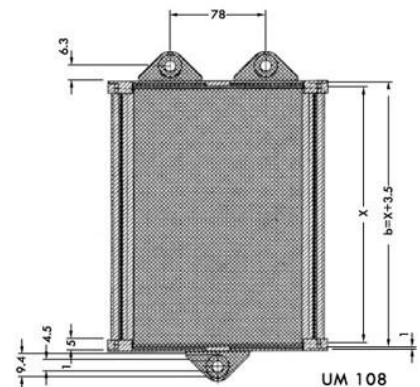
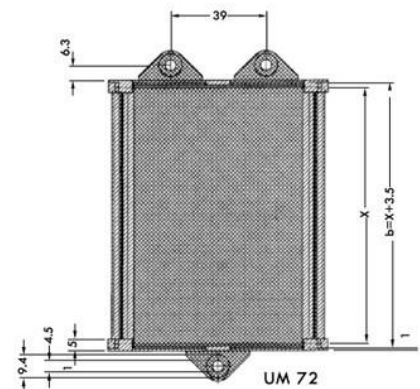


UM72-C board of side without
universal installation feet



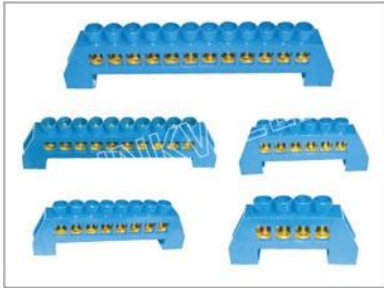
UM72-C board of side without
universal installation feet

UM72/108 extrusion section bar with UM72/108-B universal installation feet and UM-D fixed flange (directly install to use on the wall of board)



X=length of section bar
b=length of printing circuit board

Insulated busbar terminal



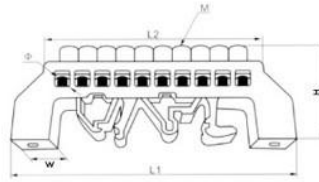
There are 8x12 copper rows in insulating crust

D-8x12/12 Potential
D-8x12/10 Potential
D-8x12/8 Potential
D-8x12/6 Potential
D-8x12/4 Potential



G-8x12 copper rows in insulating crust with earthing in one end.

G-8x12/12 Potential
G-8x12/10 Potential
G-8x12/8 Potential
G-8x12/6 Potential
G-8x12/4 Potential

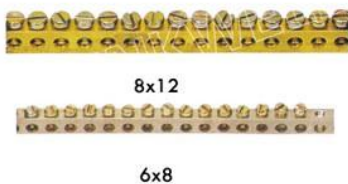
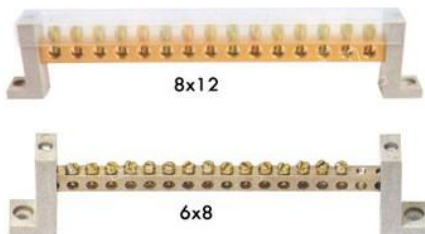
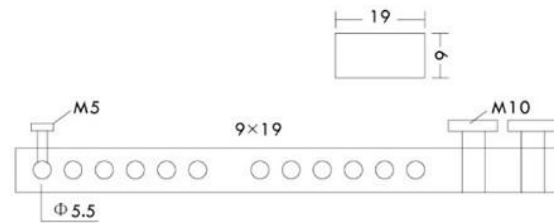


Item no.	Spec.	L1	L2	H	W	Φ	screw size	Plastic setting
	w x h - hole							
LK 033-01	6x9-4	57.5	34	34.5	10.5	5.0	M4	PA
LK 033-02	6x9-6	57.7	46.7	34.5	10.5	5.0	M4	PA
LK 033-03	6x9-8	78.5	60	34.5	10.5	5.0	M4	PA
LK 033-04	6x9-10	89	72.8	34.5	10.5	5.0	M4	PA
LK 033-05	6x9-12	102	85.7	34.5	10.5	5.0	M4	PA
LK 033-06	8x12-4	77.5	40.6	38.6	12.6	7.0	M5	PA
LK 033-07	8x12-6	77.5	57.3	38.6	12.6	7.0	M5	PA
LK 033-08	8x12-8	94.3	74.4	38.6	12.6	7.0	M5	PA
LK 033-09	8x12-10	111.0	91	38.6	12.6	7.0	M5	PA
LK 033-10	8x12-12	128.4	108.6	38.6	12.6	7.0	M5	PA
LK 033-11	8x12-14	145.8	135.6	38.6	12.6	7.0	M5	PA

G series



G-9x19/26 Potential
G-9x19/50 Potential

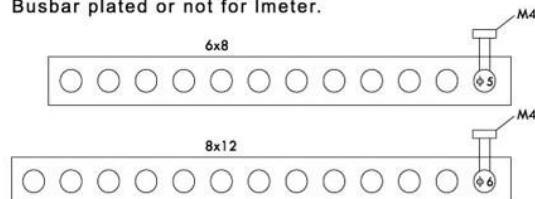


8x12 Support E/H



6x8 Support E/H

Busbar plated or not for Imeter.





Nhà phân phối

CÔNG TY CỔ PHẦN THƯƠNG MAI NAM Á (SACOM JSC)

Hotline 0904.197.893

LINKWELL ELECTRIC

Cabinet Ventilation

Heater/Thermostat/Hygrostat

Busbar System

Din rail/Wiring duct

Cabinet Accessories