

General Technical Characteristics 一般特性

Cylinder aluminium tin sealed.
Microcrystalline wax and healthy dielectric oil impregnate.
Pressure separation device and discharge resistor inside.
Metallized polypropylene film.
Electric shock resistant protection connecting terminal.
M12 or M16 earth ground screw.

Typical Applications 典型应用

Use for correcting the power factor of 50Hz and 60Hz low voltage power system device.
Suitable for compensation on the spot and concentrate auto compensation, reduce reactive loss, improve voltage quality.
Energy conservation product.

ELECTRICAL CHARACTERISTICS 电气特性

Reference standards 参考标准	IEC 60831-2002
Ambient temperature 环境温度	- 25 to + 50 °C
Rate output 额定输出	1-30kvar
Rated voltage 额定电压	0.23kv, 0.4kv, 0.415kv, 0.45kv, 0.525kv and so on
Capacitance tolerance 容量偏差	-5% ~ 10%
Tangent of the loss angle 损耗角正切	$\leq 1 \times 10^{-3}$
Discharge feature 放电特点	With internal discharge resistors to decrease the residual capacitor voltage to 50V within 3 minutes after disconnection from the grid.
Life expectancy 预期寿命	$\geq 100,000$ hours at U_N

TEST METHODS AND PERFORMANCES 测试方法

Test voltage terminal to terminal U_{TT} 两端耐压	$2.15U_N$ for 5s
Test voltage terminal to case U_{TC} 端壳耐压	$2U_N + 2000V$ or 3000V which is larger, 10s
Permissible relative humidity 允许相对湿度	90%
Altitude 海拔	2000m

OVER-VOLTAGE 过压保护

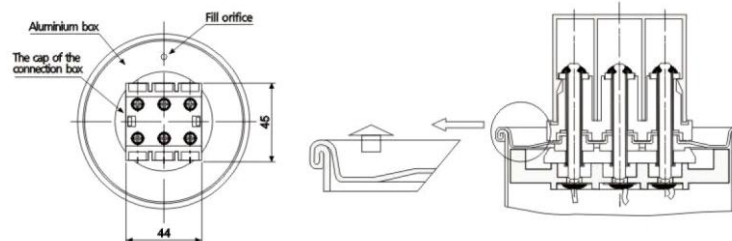
- $1.10 \times U_{NDC}$ for maximum 8 Hour per day
- $1.15 \times U_{NDC}$ for maximum 30 minimum per day
- $1.20 \times U_{NDC}$ for maximum 5 minimum per day
- $1.30 \times U_{NDC}$ for maximum 1 minimum per day

OVER-CURRENT 过流保护

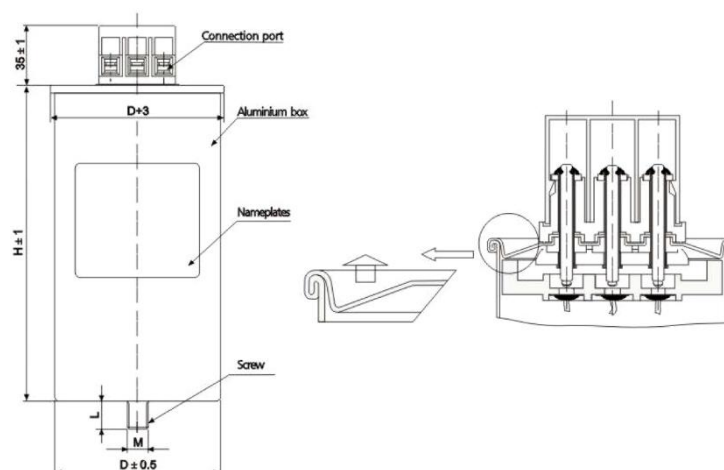
1.3times of rated current, but consider to the voltage, capacitance tolerance and harmonic, the transient current can not exceed 1.43 times of rated current.

OUTLINE DRAWING 外形图

Before tension fracture



After tension fracture



■ HOW TO ORDER:

<u> K9C </u>	<u> 0.23 </u>	<u> / </u>	<u> 2.5 </u>	<u> / </u>	<u> 3 </u>	<u> *** </u>
Series Code:	Voltage:		Rated output		Phase number:	Internal
AFC Series	0.23: 0.23kV		(kvar):		1: single phase	Code
	0.4: 0.4kV		2.5: 2.5Kvar		3: three phases	

■ ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Frequency: 50Hz, Connection Method: Δ				Dimension		
	U _N kV	Q _N Kvar	C _N μF	I A	D	H	M
K9C0.23/2.5/3	0.23	2.5	150	6.3	76	180	12
K9C0.23/3/3	0.23	3	181	7.5	76	180	12
K9C0.23/4/3	0.23	4	241	10	76	180	12
K9C0.23/5/3	0.23	5	301	12.6	76	210	12
K9C0.23/6/3	0.23	6	361	15.1	76	210	12
K9C0.23/7.5/3	0.23	7.5	451	18.8	76	240	12
K9C0.23/8/3	0.23	8	481	20.1	86	240	12
K9C0.23/10/3	0.23	10	602	25.1	96	240	16
K9C0.23/12/3	0.23	12	722	30.1	96	240	16
K9C0.23/12.5/3	0.23	12.5	752	31.4	106	240	16
K9C0.23/15/3	0.23	15	903	37.7	106	240	16
K9C0.4/2.5/3	0.4	2.5	49.7	3.6	76	135	12
K9C0.4/3/3	0.4	3	59.7	4.3	76	135	12
K9C0.4/4/3	0.4	4	79.6	5.8	86	180	12
K9C0.4/5/3	0.4	5	99.5	7.2	76	180	12
K9C0.4/6/3	0.4	6	119	8.7	76	180	12
K9C0.4/7.5/3	0.4	7.5	149	10.8	76	210	12
K9C0.4/8/3	0.4	8	159	11.6	76	240	12
K9C0.4/10/3	0.4	10	199	14.4	76	240	12
K9C0.4/12/3	0.4	12	239	17.3	86	240	12
K9C0.4/12.5/3	0.4	12.5	149	18	86	240	12
K9C0.4/14/3	0.4	14	179	20.2	86	240	12
K9C0.4/15/3	0.4	15	198	21.7	96	240	16
K9C0.4/16/3	0.4	16	318	23.1	96	240	16
K9C0.4/18/3	0.4	18	358	26.0	96	240	16
K9C0.4/20/3	0.4	20	398	28.9	106	240	16
K9C0.4/25/3	0.4	25	497	36.1	106	290	16
K9C0.4/30/3	0.4	30	597	43.3	116	290	16
K9C0.415/5/3	0.415	5	92.4	7.0	76	180	12
K9C0.415/10/3	0.415	10	185	13.9	76	240	12
K9C0.415/15/3	0.415	15	277	20.9	96	240	16
K9C0.415/20/3	0.415	20	370	27.8	106	240	16
K9C0.415/25/3	0.415	25	462	34.8	106	290	16
K9C0.415/30/3	0.415	30	555	41.7	116	290	16
K9C0.45/5/3	0.45	5	78.6	6.4	76	180	12
K9C0.45/10/3	0.45	10	157	12.8	76	240	12
K9C0.45/15/3	0.45	15	236	19.3	86	240	12
K9C0.45/20/3	0.45	20	314	25.7	106	240	16
K9C0.45/25/3	0.45	25	393	32.1	106	290	16
K9C0.45/30/3	0.45	30	472	38.5	106	290	16
K9C0.525/5/3	0.525	5	57.7	5.5	76	180	12
K9C0.525/10/3	0.525	10	116	11.0	86	240	12
K9C0.525/15/3	0.525	15	173	16.5	96	240	16
K9C0.525/20/3	0.525	20	231	22.0	106	240	16
K9C0.525/25/3	0.525	25	289	27.5	106	290	16
K9C0.525/30/3	0.525	30	347	33.0	116	290	16

Remark: Customization for special specification and requirement is available.

■ ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Frequency: 50Hz				Dimension		
	U _N kV	Q _N Kvar	C _N μF	I A	D	H	M
K9C0.23/2.5/1	0.23	2.5	150	10.9	76	135	12
K9C0.23/5/1	0.23	5	301	21.7	76	180	12
K9C0.23/7.5/1	0.23	7.5	451	32.6	86	240	12
K9C0.23/10/1	0.23	10	602	43.5	96	240	16
K9C0.4/2.5/1	0.4	2.5	49.7	6.3	76	135	12
K9C0.4/5/1	0.4	5	99.5	12.5	76	180	12
K9C0.4/7.5/1	0.4	7.5	149	18.8	76	180	12
K9C0.4/10/1	0.4	10	199	25	76	240	12
K9C0.4/12.5/1	0.4	12.5	249	31.3	86	240	12
K9C0.4/15/1	0.4	15	298	37.5	96	240	16
K9C0.45/2.5/1	0.45	2.5	39.3	5.6	76	135	12
K9C0.45/5/1	0.45	5	78.6	11.1	76	180	12
K9C0.45/7.5/1	0.45	7.5	118	16.7	76	180	12
K9C0.45/10/1	0.45	10	157	22.2	76	240	12
K9C0.45/25/1	0.45	15	236	33.3	86	240	12
K9C0.525/2.5/1	0.525	2.5	28.9	4.8	76	135	12
K9C0.525/5/1	0.525	5	57.7	9.5	76	185	12
K9C0.525/7.5/1	0.525	7.5	86.6	14.3	76	210	12
K9C0.525/10/1	0.525	10	116	19	76	240	12
K9C0.525/25/1	0.525	15	173	28.6	96	240	16

Remark: Customization for special specification and requirement is available.