

- Surge-proof capacitor in aluminium can with insulation sleeve.
- To be mounted with ring clips or with threaded stud
- Design optimized for parallel connection and high density of energy

APPLICATIONS

Energy Storage, Bulk.

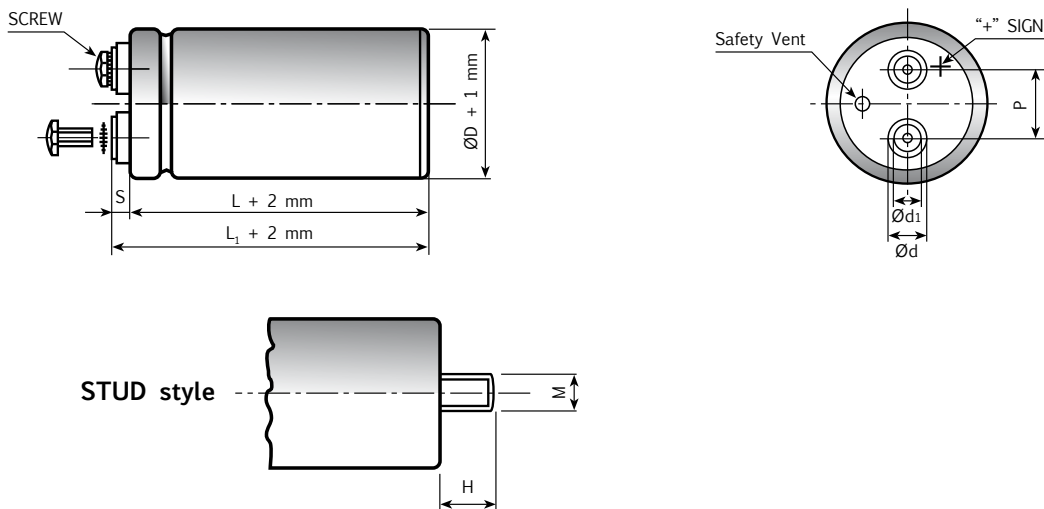


Diagram of dimensions (unit=mm)
Insert and screw threads: Metric (mm), UNF (inches)

ØD	d	d1	P	STUD M H	INSERT	SCREW	L1 -L[-1+3]	S[-1+1]	INSERT STYLE CODE
35	11	7.9	12.7	M8 12	M5	5MA x 9.5	2.5	5	O
51	18.5	13	22.7	M12 16	M5	5MA x 9.5	2.5	5	H
63	18.5	13	28.6	M12 16	M5	5MA x 9.5	2.5	5	H
63	17.3	17.3	28.6	M12 16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	3	4	W
63	17.3	17.3	28.6	M12 16	UNF 1/4-28 High Post	1/4-28 x 1/2"	6	7	R
63	7.9	7.9	28.6	M12 16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	Z
63	12	7.9	28.6	M12 16	UNF 10-32 High Post	10-32 x 3/8"	6	7	U
76	18.5	13	31.8	M12 16	M5	5MA x 9.5	2.5	5	H
76	18.5	13	31.8	M12 16	M5	5MA x 9.5	2.5	7	L
76	23.2	17.7	31.8	M12 16	M6	6MA x 10	4.5	7	6
76	17.3	17.3	31.8	M12 16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	3	4	W
76	17.3	17.3	31.8	M12 16	UNF 1/4-28 High Post	1/4-28 x 1/2"	6	7	R
76	7.9	7.9	31.8	M12 16	UNF 10-32 Low Post	10-32 x 1/4"	2	2.5	Z
76	12	7.9	31.8	M12 16	UNF 10-32 High Post	10-32 x 3/8"	6	7	U
90	23.2	17.7	31.8	M12 16	M6	6MA x 10	4.5	7	H

SPECIFICATIONS

Temperature Range	Operating: -40°C +85°C Storage : Preferably below +25°C, not exceeding +40°C							
Rated Voltage Range (V _r)	from 350V to 450V DC							
Surge Voltage (V _p)	V _p = 1.10 V _r (V _r ≤ 250V DC)							
Rated Capacitance Range	from 12000 µF to 34000 µF							
Capacitance Tolerance	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]							
Leakage Current (I _L) (mA, 5 min, 20°C)	max I _L = 0.006 C _r V _r + 4 µA Kendeil product limit: I _L = 0.003 C _r V _r At 85°C max I _L = 0.04 C _r V _r µA							
Ripple current (I _r)	Refer to table at 85°C and 100Hz: FREQUENCY 50Hz 100 Hz 500Hz 1000Hz >10kHz MULTIPLIER 0.8 1.0 1.2 1.3 1.5 AMBIENT TEMP 35°C 45°C 55°C 65°C 75°C 85°C 95°C MULTIPLIER 2.2 2.1 1.8 1.6 1.4 1.0 0.5 Due to the current load capability of the contact elements, the following limits must not be exceeded: CAPACITOR DIAMETER 76mm 90mm Maximum current 50A 70A							
Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.							
Vibration Resistance	Frequency range: 10 Hz to 55 Hz, amplitude 0.75 mm max acceleration 10G for 3x2 h							
Life test	After 2,000 hours application of rated voltage at 85°C capacitors meet characteristics aside				Cap change tan δ Leakage current (I _L) Impedance (Z)		≤ 10% ≤ 130% < initial limit ≤ 130%	
Shelf life	After leaving capacitors under no load for 500 hours at 85°C when restored at 20°C meet specifications aside				Cap change tan δ Leakage current (I _L)		≤ ±15% ≤ 150% < initial limit	
Useful life (V _n , Temp rated I ripple applied)	> 15000 h at 85°C							
Failure percentage Failure rate	≤ 1% (during useful life) ≤ 33 fit (33 10 ⁻⁹ /h)							
Self inductance	Approx. 20 nH							
Reference standards	CECC 30.300 IEC 60384-4 LONG LIFE GRADE							

K11 TYPE STANDARD RATINGS

Cap μ F	$\varnothing$ x L mm	Tan δ MAX 100 Hz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
19000	76x214	0.25	18.0	K11350193__M0J214
20000	76x240	0.25	18.0	K11350203__M0J240
22000	76x214	0.25	18.4	K11350223__M0J214
24000	76x240	0.25	18.5	K11350243__M0J240
27000	90x220	0.25	21.0	K11350273__M0L220
30000	90x220	0.25	21.4	K11350303__M0L220
30000	90x240	0.25	22.0	K11350303__M0L240
34000	90x240	0.25	22.5	K11350343__M0L240

**RATED
VOLTAGE
VDC**

350V

Cap μ F	$\varnothing$ x L mm	Tan δ MAX 100 Hz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
15000	76x214	0.25	16.0	K11400153__M0J214
16000	76x240	0.25	17.7	K11400163__M0J240
18000	76x214	0.25	16.3	K11400183__M0J214
20000	76x240	0.25	18.1	K11400203__M0J240
21000	90x220	0.25	21.5	K11400213__M0L220
23000	90x240	0.25	23.2	K11400233__M0L240
25000	90x220	0.25	21.9	K11400253__M0L220
29000	90x240	0.25	23.7	K11400293__M0L240

**RATED
VOLTAGE
VDC**

400V

Cap μ F	$\varnothing$ x L mm	Tan δ MAX 100 Hz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
12000	76x214	0.20	16.0	K11450123__M0J214
13000	76x240	0.20	17.5	K11450133__M0J240
15000	76x214	0.20	16.4	K11450153__M0J214
16000	76x240	0.20	18.0	K11450163__M0J240
17000	90x220	0.20	20.9	K11450173__M0L220
18000	90x240	0.20	22.5	K11450183__M0L240
20000	90x220	0.20	21.6	K11450203__M0L220
23000	90x240	0.20	23.1	K11450233__M0L240

**RATED
VOLTAGE
VDC**

450V