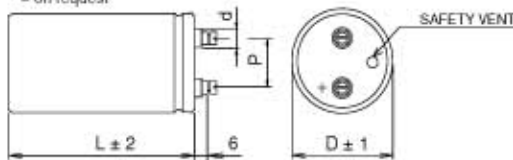


**Professional electrolytic capacitors**  
**High capacitance - Reduced volume**  
**Long life -40 +85°C**  
**ALL INDUSTRIAL USES**

D mm	F* mm	G mm	L mm	d mm
35	12.7	5.4	82	10.2
50	22.2	8.2	102	12.8
64	28.6	10.2	143	15.8
76	31.8	10.2	143	21.0
90	31.8	22.2		17.15*

\* - on request



Capac. type 1.74 - Capac. type 1.76 - Nylon nut - Stainless steel clamp with 2 fixing points for capacitors D = 35 mm.  
Stainless steel clamp with 3 fixing points for capacitors D > 35 mm.

**Applications**

Computer grade capacitors for power supplies, computers, control equipments, telecommunications, timers, welding applications, all industrial and professional uses.

**Manufacturing**

Cylindrical aluminium case with PVC insulating sleeve - sealing cover in self - extinguishing resin with screw terminals, M5 for capacitors D ≤ 76 mm. - M6 for capacitors D = 90 mm. - Fixing stud: M8 x 12 mm. for capacitors D = 35 mm. M12 x 16 mm. for capacitors D ≥ 50 mm.

**Technical characteristics**

Reference standard	IEC 384-4 - DIN 41240 - CECC 30300
Climatic category	-40/ +85/ 56 (-40/ +85°C) according to IEC 68 - 1for VR ≤ 450 V -40/ +70/ 56 (-40/ +70°C) for VR = 500 V
Capacitance category	± 20%
Surge voltage	1.1 VR (VR = Rated voltage)
Superimposed alternating voltage	1.5 V.
Leakage current (Ir) in µA after 5' at VR. DC. (C in µF)	≤ 0.3 µA . (Cr/µF . VR/V) <sup>2</sup> + 4µA
Ripple current (Ir) at 85°C and 100 Hz	as shown in table A

Ripple current (Ir) between +25 and +85 °C, 100Hz	θ	25 + 40°C	50°C	60°C	70°C	80°C	85°C
Multiply the listed values at 85 °C by the factors shown at side	factor X	2.4	2.1	1.75	1.4	1.15	1.0
Ripple current (Ir) Vs the frequency f.	VR.DC.	50 Hz	100 Hz	400 Hz	800 Hz	≥ 1000 Hz	
Multiply the listed values at 85 °C by the factors shown at side	≤ 100V	0.9	1	1.15	1.18	1.20	
	> 100V	0.95	1	1.15	1.25	1.30	

Max r.m.s. current on the screw terminals 25 A for D ≤ 50 mm. 40 A for D > 50 mm.  
Vibrations resistance - duration 3 x 2h (CEI - 68) frequency 10 + 55 HZ - amplitude 0,75 mm. max. acceleration 10 g

Insulating sleeve test between terminals and mounted Al. hardware at 25°C 2000 V 50 HZ for 1 minute; insulation resistance 100 MΩ

**Service life**

Life test - Standard endurance test at 85 °C and VR. according to IEC 384-4 LONG LIFE: 2.000 h

Expected life at VR and permissible value of Ir

	θ	VR ≤ 100V	VR > 100V
40 °C		> 300.000 h	~ 150.000 h
85 °C		~ 5.000 h	~ 2.000 h

Failure rate (N. or failures per component and time unit) ≤ 100 fit (≤ 100.10<sup>-9</sup>/h)

**Other characteristic: see table A, enclosure 1/7 A and 2/7 A**

Please, inquire for information about other characteristics or particular applications.

**FACON S.p.A. MANUFACTURING OF ELECTRICAL CAPACITORS**

Via Molini Trotti, 13 - 21100 Varese - Italy Tel. 39(0)332/282300 - Telex 380378 Provox I for FACON - Telefax 39(0)332/282705  
http://www.Facon.com

TABLE A

C. µF	D X L	ESR typ 100 Hz m Ω	ESR max 100 Hz m Ω	Z max 10 KHz m Ω	Ir max 100 Hz 85°C-A	part a CODE** part b
Rated voltage VR.DC. 16 V						
						17°09
22000	35 54	18	24	22	8.3	22000
33000	35 82	17	23	21	10.0	33000
47000	35 82	12	16	15	12.0	47000
68000	50 82	12	16	17	15.2	68000
100000	50 82	9	12	12	17.1	90100
150000	50 102	7	10	11	20.7	90150
220000	64 102	6	8	7	27.3	90220
330000	76 102	4	5	6	37.2	90330
470000	76 143	3	4	5	46.2	90470
560000	76 143	3	4	5	48.0	90560
Rated voltage VR.DC. 25 V						
						17°12
15000	35 54	20	27	25	8.3	15000
22000	35 82	18	24	22	10.3	22000
33000	35 82	14	20	18	11.5	33000
47000	50 82	11	15	10	16.5	47000
68000	50 82	9	13	9	17.8	68000
100000	50 102	10	13	9	19.2	90100
150000	64 102	7	9	7	26.2	90150
220000	76 102	5	6	5	33.7	90220
330000	76 143	4	5	4	42.2	90330
Rated voltage VR.DC. 40 V						
						17°18
6800	35 54	28	36	27	6.7	06800
10000	35 54	22	30	22	7.5	10000
10000	35 82	22	30	22	8.9	10001
15000	35 82	20	27	20	6.3	15000
22000	35 102	15	21	15	11.8	22000
33000	50 82	12	16	11	14.9	33000
47000	50 82	11	15	10	15.7	47000
68000	64 102	11	14	11	20.2	68000
100000	64 102	7	10	7	24.5	90100
150000	76 102	6	9	7	29.0	90150
220000	76 143	5	7	5	36.8	90220
Rated voltage VR.DC. 63 V						
						17°25
3300	35 54	39	52	37	5.7	03300
4700	35 54	27	37	30	6.8	04700
5600	35 54	21	28	21	7.7	05600
10000	35 82	16	21	23	10.5	10000
15000	35 102	15	20	22	11.9	15000
22000	50 82	11	15	10	15.7	22000
33000	50 102	9	12	10	19.2	33000
47000	64 102	8	11	9	22.6	47000
68000	76 102	6	8	6	30.2	68000
100000	76 143	6	8	6	35.1	90100
120000	76 143	5	7	6	36.0	90120
Rated voltage VR.DC. 100 V						
						17°33
2200	35 54	47	63	47	5.2	02200
3300	35 82	31	42	31	7.5	03300
4700	35 82	27	37	27	8.0	04700
6800	35 102	20	27	20	10.3	06800
10000	50 102	14	18	15	15.4	10000
15000	50 102	13	17	14	15.8	15000
22000	64 102	13	18	13	18.2	22000
33000	76 102	10	13	10	23.5	33000
47000	76 143	7	9	7	31.6	47000
56000	76 143	10	13	11	26.3	56000
Rated voltage VR.DC. 160 V						
						17°42
680	35 54	138	195	96	3.0	00680
1000	35 54	94	127	65	3.7	01000
1500	35 82	63	85	44	5.3	01500
2200	50 82	54	73	44	7.0	02200
3300	50 82	37	50	30	8.5	03300
4700	50 102	26	35	21	11.1	04700
6800	64 102	19	25	17	15.2	06800
10000	76 102	14	18	13	19.9	10000
15000	76 143	11	14	10	25.4	15000
22000	76 143	9	12	8	28.1	22000
Rated voltage VR.DC. 200 V						
						17°44
680	35 82	176	237	121	3.2	00680
1000	35 102	119	161	83	4.4	01000
1500	50 82	85	115	68	5.6	01500
2200	60 102	73	96	58	6.6	02200
3300	64 102	48	66	43	8.4	03300
4700	64 102	34	46	30	11.3	04700
6800	76 102	23	32	23	15.1	06800
9200	76 102	21	29	20	15.8	08200
10000	76 143	19	26	18	19.0	10000
15000	76 143	16	21	15	20.8	15000
22000	76 216	11	15	10	29.9	22000
Rated voltage VR.DC. 250 V						
						17°47
470	35 54	213	288	120	2.4	00470
680	35 82	147	199	102	3.4	00680
1000	35 102	100	136	70	4.6	01000
1500	50 82	67	90	54	6.3	01500
2200	50 102	56	75	45	7.0	02200
3300	64 102	37	50	33	10.8	03300
4700	76 102	26	35	25	14.3	04700
6800	76 102	18	24	17	17.3	06800
10000	76 143	16	21	15	20.8	10000
12000	76 143	16	21	15	20.8	12000
22000	76 216	11	15	10	29.9	22000
Rated voltage VR.DC. 350 V						
						17°57
1000	50 82	92	125	75	5.4	01000
1500	50 102	62	83	50	7.2	01500
2200	64 102	42	57	36	10.1	02200
3300	76 102	28	38	27	13.8	03300
4700	76 102	27	37	26	14.7	04700
6800	76 143	23	31	22	17.4	06800
8800	76 143	19	25	15	19.2	08800
9200	76 143	16	21	15	21.0	08200
10000	76 143	13	17	13	23.2	10000
10000	76 216	13	17	13	27.6	10001
15000	76 216	10	14	13	30.9	15000
Rated voltage VR.DC. 400 V						
						17°55
330	35 82	289	391	201	2.5	00330
470	35 102	203	274	141	3.2	00470
680	50 82	140	190	114	4.7	00680
1000	50 102	95	129	78	5.8	01000
1500	50 102	67	90	54	7.3	01500
2200	64 102	52	70	47	9.6	02200
3300	76 102	34	46	33	13.2	03300
4700	76 143	26	36	25	16.1	04700
6800	76 143	21	28	20	18.1	06800
10000	76 216	15	20	14	25.3	10000
15000	90 220	11	14	11	33.6	15000
Rated voltage VR.DC. 450 V						
						17°70
150	35 54	741	1000	511	1.3	00150
220	35 82	521	755	385	1.9	00220
330	35 82	347	504	258	2.4	00330
470	50 82	244	364	211	3.7	00470
680	50 82	169	244	146	4.5	00680
1000	50 102	115	168	99		