

APPLICATIONS

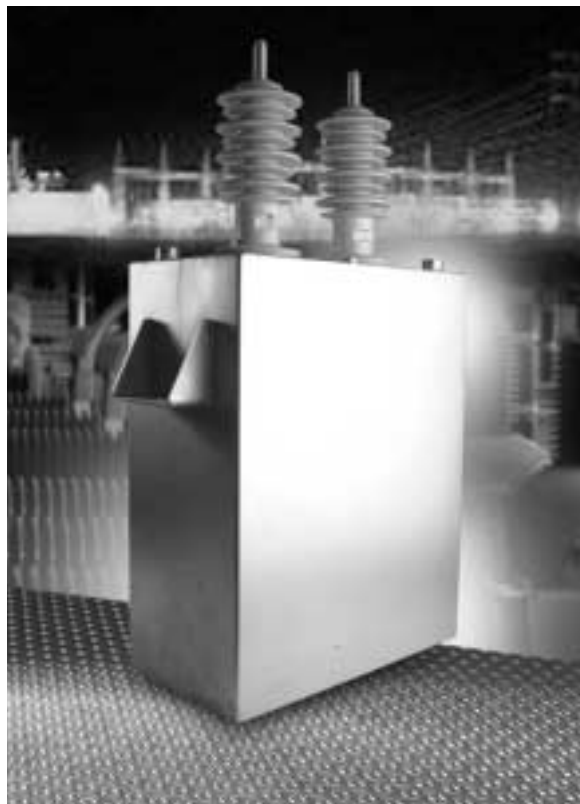
DC voltage filtering for:

- DC link
- Resonant filtering
- Active correction (*FACTS, UPFC, SVC . . .*)
- HVDC
- High Power DC Supply

PACKAGING

Rectangular stainless steel case sandblasted. Grounding is via threaded nuts located on the cover of the case.

PRESENTATION



ELECTRICAL CHARACTERISTICS

Capacitance range C_n	2.6 μ F to 612 μ F
Tolerance on C_n ($\pm 5\%$ or $\pm 2\%$ available for specific requirements)	$\pm 10\%$
DC voltage range	6500V to 75kV
Maximum hot-spot temperature	85°C
Life duration at nominal voltage and 70°C hot-spot temperature	100,000 hours
Test voltage between terminals	1.5V _n during 10s
Test voltage between short terminals and case	V _{tcase} = 1.5V for 60s
Standard reference	Conforms with IEC 61071

For specific products out of this catalog, please fill out the Guide for Customer's Specific Requirement on page 30.

Table of Values

L x Wmm (inches)		Base 350 (13.780) x 185 (7.283) Stainless Steel Case					
Hmm (inches)		315 (12.402)	410 (16.142)	500 (19.685)	595 (23.425)	685 (26.969)	770 (30.315)
Weight (kg)		29	36	43	50	57	63
S (dm ²)		40	50	60	70	80	89
V _n (V)	terminal	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)
6500	type 1	188 3.4	275 3.3	362 3.2	450 3.2	537 3.1	612 3.1
7900	type 1	126 3.6	184 3.4	242 3.3	300 3.2	359 3.2	410 3.2
9000	type 1	95 3.7	138 3.4	181 3.3	225 3.3	269 3.2	307 3.2

$$L_s = 0.166 \times H \text{ mm (inches)} + L_{\text{terminals}}$$

10500	type 1	73 5.8	107 5.0	140 4.6	174 4.4	208 4.3	237 4.3
12000	type 1	55 6.2	80 5.3	105 4.9	130 4.6	155 4.5	177 4.4
14500	type 1	37.5 5.6	55 4.9	72 4.6	89 4.4	106 4.3	121 4.2
15800	type 1	31.5 5.9	46 5.1	60.5 4.7	75 4.5	89 4.4	102.5 4.3
18000	type 2	19.5 7.8	30 6.5	45 5.9	51 5.6	62 5.4	72 5.3
28000	type 2	5.8 6.8	9 5.9	12 5.5	15.5 5.2	18.3 5.1	21.5 5.1

$$L_s = 0.166 \times H \text{ mm (inches)} + L_{\text{terminals}}$$

L x Wmm (inches)		Base 520 (20.472) x 185 (7.283) Stainless Steel Case					
Hmm (inches)		315 (12.402)	410 (16.142)	500 (19.685)	595 (23.425)	685 (26.969)	770 (30.315)
Weight (kg)		41	52	62	72	82	91
S (dm ²)		54	67	80	93	106	118
V _n (V)	terminal	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)
22000	type 2	20 8.9	31.5 7.2	42.5 6.6	54 6.2	65 6.0	75 5.9
26000	type 2	14.2 9.8	22.5 7.8	30 7.0	38 6.6	46 6.3	53 6.2
42000	type 3	3.5 5.5	5.6 8	7.7 7.2	9.8 6.9	12 6.7	14 6.6

$$L_s = 0.249 \times H \text{ mm (inches)} + L_{\text{terminals}}$$

L x Wmm (inches)		Base 695 (27.362) x 185 (7.283) Stainless Steel Case					
Hmm (inches)		315 (12.402)	410 (16.142)	500 (19.685)	595 (23.425)	685 (26.969)	770 (30.315)
Weight (kg)		54	68	81	95	108	119
S (dm ²)		68	85	101	117	133	148
V _n (V)	terminal	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)	C (μF) Rs (mΩ)
32000	type 2	12.8 11.2	20 8.8	27 7.9	34 7.4	41 7.1	47 6.9
36000	type 3	9 13.5	14.2 10.5	19.3 9.3	24.8 8.6	30 8.2	35.5 7.9
56000	type 3	2.6 11.6	4.2 9.2	5.7 8.3	7.3 7.8	8.8 7.5	10.3 7.4

$$L_s = 0.332 \times H \text{ mm (inches)} + L_{\text{terminals}}$$

Unless specified I_{max} = 120A

For higher voltages (56 kV < U_n < 75kV) please fill out the FIM Products guide for customer's specific requirements on page 30.

Mechanical Design

