

Power^{IT} High Voltage Power Capacitor CHD

Single Phase



General

The ABB capacitor unit type CHD is designed for heavy-duty operation in Shunt Banks, Harmonic Filters, Series Capacitor, SVC and HVDC applications in all climatic conditions.

The ABB capacitor unit is a single-phase power capacitor of all film design, with very low dielectric losses and a long life. Each capacitor has several elements that consist of a dielectric of polypropylene film and aluminium foil, which are connected in series and parallel groups.

The capacitors are impregnated with a biodegradable, non-PCB fluid with high insulation strength to ensure excellent electrical performance. The edges of the foil electrodes are folded enabling higher electrical stress through superior electrical connections to withstand high transient currents and minimising partial discharge. The ABB capacitors have an extremely low failure rate and high reliability.

The ABB capacitor unit tank is constructed from a high-grade 304 stainless steel providing excellent corrosion resistance. The seams are fully TIG welded providing superior weld quality compared with other welding processes, resulting in a much-reduced risk of leakage. In all, the ABB capacitor unit provides greater reliability and a longer service life.

The ABB capacitor unit is available with Internal or External Fuses or in a Fuseless design.

Quality Assurance and Environment

ABB is certified according to ISO 9001 (quality) and ISO 14001 (environment).

Standards

AS 2897, IEC 60871 or other standards on request.

Technical Data

Power	Up to 1000kvar
Voltage range	1- 20kV
Frequency	50/60Hz
Current	Max. 180A
Dielectric	Polypropylene film
Impregnant	Jarylec C101 (non-PCB)
Discharge resistors	Built-in
Losses	≤ 0.15 W/kvar including resistors

Operating Conditions

Temperature range	-10/+50°C
Location	Outdoor or indoor
Altitude	≤ 1000m above sea level

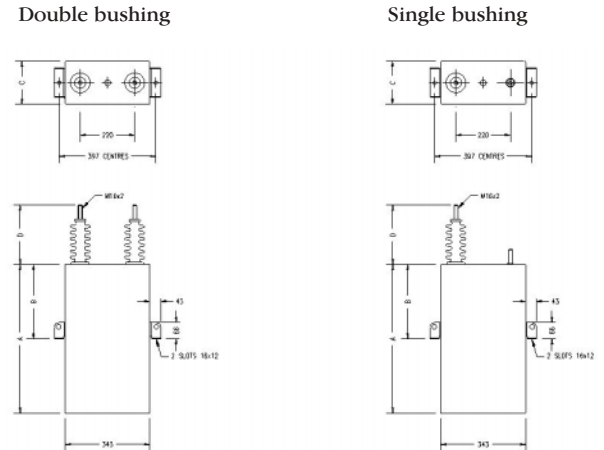
Capacitor Container

Material	Stainless steel, 304 high-grade
Colour	Storm grey N42 (AS 2700)
Finish	Matt
Fixing brackets	One or two per side

Terminations

Bushings	Grey porcelain, one or two
Terminals	M16 x 2
Clamps	Nickel-coated brass, ≤. 2x70mm2
Fixing	Two 11x16mm holes, 397mm centres

Dimensions and Data (typical)



kvar	50Hz		60Hz			Kg
	A	B	A	B	C	
100	250	200	250	200	178	27
200	350	250	300	225	178	35
300	450	225	400	200	178	43
400	550	275	500	250	178	51
500	650	325	600	300	178	59
600	800	400	650	325	178	71
700	900	450	750	375	178	79
800	1000	500	850	425	178	87
900	1100	550	950	475	178	95
1000	1200	600	1050	525	178	103

BIL	D	Notes:
60	140	All dimensions are in millimetres
95	215	All dimensions are subject to change without notice
150	295	
170	380	



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