

# Power<sup>IT</sup> High Voltage Power Capacitor CHD

Three Phase



## General

The ABB capacitor unit type CHD is designed for heavy-duty operation in Fixed, Enclosed and Pole Mount Banks in all climatic conditions.

The ABB capacitor unit is a three-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 in to an internal star or delta configuration.

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.

## 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 500kvar
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

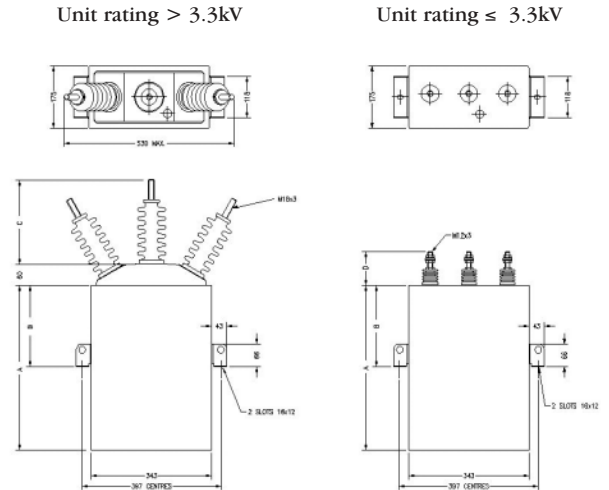
## Capacitor Container

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, three
Terminals	M16 x 3
Clamps	Nickel-coated brass, ≤. 2x70mm2
Fixing	Two 11x16mm holes, 397mm centres

## Dimensions and Data (typical)



kvar	50Hz		60Hz		kg
	A	B	A	B	
50	250	200	250	200	33
100	300	225	250	200	36
150	350	250	300	225	40
200	400	200	350	250	44
250	500	250	400	200	52
300	550	275	500	250	56
350	650	325	550	275	64
400	750	375	650	325	72
450	800	400	700	350	76
500	900	450	750	375	84

BIL	C
40	115
60	140
95	215
150	295

### Notes:

All dimensions are in millimetres  
Dimension D equals 115mm  
All dimensions are subject to change without notice



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