

Power Factor Correction

Advance Automatic Capacitor Banks



Advance leading var systems

Powerful and compact

- High power density - small dimensions
- Proven technology CLMD capacitors

Easy to select

- 4 executions: 2 wall mount & 2 floor mount cubicles
- Complete range
- Acute regulation

Easy to install

- Complete factory tested unit ready for connection
- Ample wiring space
- Wall fixations (A50, A100)
- Lifting lugs and floor mount (A200, A400)
- Bottom cable entry (optional top entry)

Easy to operate

RVC PF controller with

- Complete auto set-up
- Easy commissioning
- User-friendly interface
- Easy access to parameters for manual setting

Reliable and Safe

- IP42 protection (closed door)
- Protected against direct contact (open door)
- HRC fuses
- Use of ABB components:
 - PF Controller
 - CLMD capacitors
 - Contactors

Technical Specification

Capacitor Voltage:

Standard 415V, Alternative on request.

Frequency:

50Hz Standard.

Connection:

Standard 3 phase (No neutral).

Discharge Resistors:

Permanently connected discharge resistors are incorporated to ensure safe discharge of the capacitor to less than 50V in one minute after switch off.

Termination:

Termination's are designed to accommodate three core or single core cables. An alloy gland plate is provided.

Cable Entry:

Standard cable entry is provided through a gland plate in the cubicle roof or in the base where bottom access is available. An optional cable box can be included (at extra cost) for mounting on the right-hand side of the enclosure for floor cable entry.

Isolator:

A load break isolator can be incorporated in the cubicle.

Cubicle Protective Device:

MCCB can be included within the enclosure and interlocked with the main access door to provide complete cubicle protection.

Auto Control:

Each ADVANCE Automatic cubicle has standard stage modules complete with appropriate contactors, line fuses and control circuitry.

Control Relay:

A multi-stage reactive kVAR control relay can be provided inside the assembly with PFI and stage on indication.

Selector Switches:

Each stage can be provided with selector switches and stage on indication (at extra cost).

Control Voltage:

415V standard. Other Voltages available as an option.

Case Material:

Mild Steel.

Finish:

Light Grey textured (RAL7032).

Location:

Indoor.

Protection:

Generally to IP42. Alternative on request.

Ambient Temp Tol.:

0°C = +40°C as defined by BSEN 60831.

Future Extension:

Modular switching section trays incorporating appropriate capacitor units, contactors and line fuses and are available for future extension. The installation is easily achieved through the front access door.

IMPORTANT NOTICE

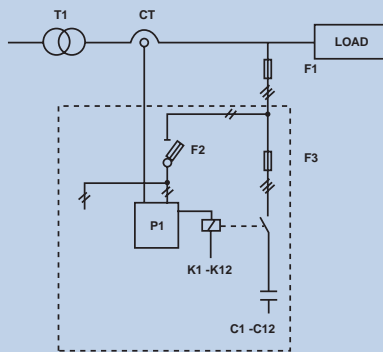
The installation of capacitors on networks disturbed by harmonics may require special precautions, especially when there is a risk of resonance. Our offer is valid for normal operating conditions only, as per BSEN60831.

Selection Table

Model	Power Range kvar (at 415v)	Cubicle Dimension W x D x H	Weight kg	Cooling
A50	16-50	335 x 355 x 810	30	Natural
A100	25-100	600 x 377 x 600	50	Natural
A200	25-100	500 x 400 x 1760	100	Natural
A400	100-200	500 x 400 x 1760	140	Fan Cooled
	450-800	1300 x 700 x 2046	500	Natural
	100-200 Detuned	650 x 700 x 2046	350	Fan Cooled
	250-400 Detuned	1300 x 700 x 2046	700	Fan Cooled

Cable entry on all models is top or bottom (specify with order) except Advance 50 which is bottom cable entry only.

Wiring Diagram



C1 ...C12	capacitor steps
F1	main fuses or protective devices
F2	control fuses
F3	capacitor step fuses
K1 ...K12	contactors
P1	PF controller
T1	power transformer
CT	current transformer



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