

Power factor correction
and harmonic filtering

Capacitors and banks 50 Hz

400/415 V network voltage

Varset Fast

Varset Fast is an automatic power factor correction equipment presented in a cubicle, including Varplus² capacitors, static contactors, detuned reactors (DR), a rapid response power factor controller (step response time < 40ms).



Cubicles A3 and A4.

Varset Fast

Highly polluted network (25 % < Gh/Sn ≤ 50 %)

Varset Fast					
400 V (kvar)	Step	Type	Ref.		
			4.3 (215 Hz)	3.8 (190 Hz)	2.7 (135 Hz)
100	4 x 25	Cubicle A3	65941	65927	65913
125	5 x 25	Cubicle A3	65942	65928	65914
150	6 x 25	Cubicle A3	65943	65929	65915
150	3 x 50	Cubicle A3	65944	65930	65916
175	7 x 25	Cubicle A3	65945	65931	65917
200	4 x 50	Cubicle A3	65946	65932	65918
250	5 x 50	Cubicle A3	65947	65933	65919
300	6 x 50	Cubicle A3	65948	65934	65920
350	7 x 50	Cubicle A4	65949	65935	65921
400	8 x 50	Cubicle A4	65950	65936	65922
450	9 x 50	Cubicle A4	65951	65937	65923
500	10 x 50	Cubicle A4	65952	65938	65924
550	11 x 50	Cubicle A4	65953	65939	65925
600	12 x 50	Cubicle A4	65954	65940	65926

Technical data

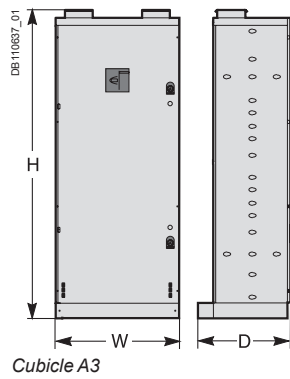
- capacitor rated voltage: 480 V, 3-phase 50 Hz
- tuning order: 4.3 (215 Hz) - 3.8 (190 Hz) - 2.7 (135 Hz)
- capacitance value tolerance: -5, +10 %
- short-circuit withstand strength: 50 kA 0.3 s
- insulation level:
 - 0.69 kV
 - withstand 50 Hz, 1 minute: 2.5 kV
- maximum permissible overloads:

Tuning order	2.7 (135 Hz)	3.8 (190 Hz)	4.3 (215 Hz)
Overcurrent (max)	12 % under 400 V	19 % under 400 V	30 % under 400 V
Overload	10 %	10 %	10 %

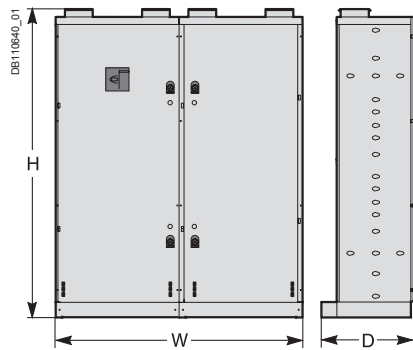
- ambient temperature around the equipment (electrical room):
 - maximum temperature: 40 °C
 - average temperature over 24 hours: 35 °C
 - average annual temperature: 25 °C
 - minimum temperature: -5 °C
- degree of protection: IP31 (except on outlet fan: IP21D)
- protection against direct contact (opened door)
- load shedding (main-standby)
- transformer 400/230 V integrated
- colour: RAL 9001
- standards: IEC 60439-1, EN 60439-1, IEC 61921.

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Cubicle A3



Cubicle A4

Installation

- cubicle: free standing cubicle with bottom connection of power cables to the busbar pads
- the CT (5 VA sec. 5 A), not supplied, has to be placed upstream from the capacitor bank and loads
- it is not necessary to provide 230 V/60 Hz power supply to supply the contactor coil.

Options (on quotation)

- top entry cables connection
- integrated main incoming circuit breaker or switch
- fixed compensation step
- communication ModBus (only with fast regulation).

Dimensions

Varset Fast					
400 V (kvar)	Type	Dimensions (mm)			Weight (kg)
		H	W	D	
100	Cubicle A3	2000	800	600	175
125	Cubicle A3	2000	800	600	220
150	Cubicle A3	2000	800	600	300
150	Cubicle A3	2000	800	600	300
175	Cubicle A3	2000	800	600	330
200	Cubicle A3	2000	800	600	360
250	Cubicle A3	2000	800	600	400
300	Cubicle A3	2000	800	600	440
350	Cubicle A4	2000	1600	600	520
400	Cubicle A4	2000	1600	600	560
450	Cubicle A4	2000	1600	600	600
500	Cubicle A4	2000	1600	600	640
550	Cubicle A4	2000	1600	600	680
600	Cubicle A4	2000	1600	600	720