

Varset Direct is a capacitor bank composed of Varplus<sup>2</sup> capacitors protected or not by an incoming circuit breaker. It is presented in enclosures and cubicle. It is available in Classic, Comfort and Harmony according to the level of harmonic pollution.



Enclosures C1 and C2 with or without incoming circuit breaker.

#### Varset Direct Classic

No polluted network (Gh/Sn ≤ 15 %)

Varset Direct Classic "without incoming circuit breaker"		
400 V (kvar)	Type	Ref.
5	Enclosure C1	65666
7.5	Enclosure C1	65668
10	Enclosure C1	65670
15	Enclosure C1	65672
20	Enclosure C1	65674
25	Enclosure C1	65676
30	Enclosure C1	65678
40	Enclosure C1	65680
50	Enclosure C1	65682
60	Enclosure C1	65684
80	Enclosure C1	65686
100	Enclosure C2	65688
120	Enclosure C2	65690
140	Enclosure C2	65692
160	Enclosure C2	65694

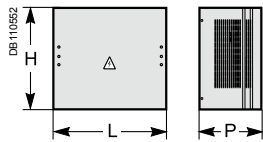
No polluted network (Gh/Sn ≤ 15 %)

Varset Direct Classic "with incoming circuit breaker"			
400 V (kvar)	Type	Circuit breaker	Ref.
5	Enclosure C1	NS100	65667
7.5	Enclosure C1	NS100	65669
10	Enclosure C1	NS100	65671
15	Enclosure C1	NS100	65673
20	Enclosure C1	NS100	65675
25	Enclosure C1	NS100	65677
30	Enclosure C1	NS100	65679
40	Enclosure C1	NS100	65681
50	Enclosure C1	NS100	65683
60	Enclosure C1	NS160	65685
80	Enclosure C1	NS250	65687
100	Enclosure C2	NS250	65689
120	Enclosure C2	NS250	65691
140	Enclosure A1	NS400	65693
160	Enclosure A1	NS400	65695

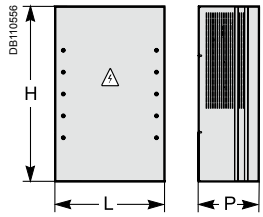
#### Technical data

- capacitor rated voltage: 415 V, 3-phase 50 Hz
- capacitance value tolerance: -5, +10 %
- insulation level:
  - 0.69 kV
  - withstand 50 Hz, 1 minute: 2.5 kV
- maximum permissible current: 30 % max. (400 V)
- maximum permissible voltage increase (8 hours over 24 hours as in IEC 60831): 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
- 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.

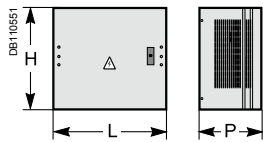
Accessory for Varset Direct Classic	Ref.
Free-standing plinth for enclosures C1 and C2	65980



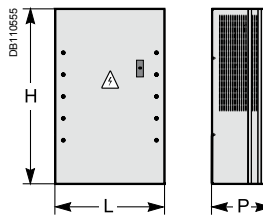
Enclosure C1 without incoming circuit breaker.



Enclosure C2 without incoming circuit breaker.



Enclosure C1 with incoming circuit breaker.



Enclosure C2 with incoming circuit breaker.

#### Installation

■ enclosure: wall mounting or by free standing plinth (accessory) with top connection of power cables.

#### Options

- fixed compensation step
- extension
- top entry cables connection
- please consult us for other options.

#### Dimensions

Varset Direct Classic "with or without incoming circuit breaker"					
400 V (kvar)	Type	Dimensions (mm)			Weight (kg)
		H	W	D	
5	Enclosure C1	450	500	275	20
7.5	Enclosure C1	450	500	275	20
10	Enclosure C1	450	500	275	20
15	Enclosure C1	450	500	275	20
20	Enclosure C1	450	500	275	20
25	Enclosure C1	450	500	275	20
30	Enclosure C1	450	500	275	20
40	Enclosure C1	450	500	275	20
50	Enclosure C1	450	500	275	25
60	Enclosure C1	450	500	275	25
80	Enclosure C1	450	500	275	25
100	Enclosure C2	800	500	275	45
120	Enclosure C2	800	500	275	45
140	Enclosure C2/A1	800/1100	500/550	275/600	50/60
160	Enclosure C2/A1	800/1100	500/550	275/600	50/60

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Enclosure C1, C2 with or without incoming circuit breaker.

#### Varset Direct Comfort

##### Polluted network (15 % < Gh/Sn ≤ 25 %)

Varset Direct Comfort "without incoming circuit breaker"			
400 V (kvar)	Type		Ref.
10	Enclosure C1		65766
15	Enclosure C1		65768
20	Enclosure C1		65770
25	Enclosure C1		65772
30	Enclosure C1		65774
40	Enclosure C1		65776
50	Enclosure C2		65778
60	Enclosure C2		65780
75	Enclosure C2		65782
90	Enclosure C2		65784
105	Enclosure C2		65786
120	Enclosure C2		65788

##### Polluted network (15 % < Gh/Sn ≤ 25 %)

Varset Direct Comfort "with incoming circuit breaker"			
400 V (kvar)	Type	Circuit breaker	Ref.
10	Enclosure C1	NS100	65767
15	Enclosure C1	NS100	65769
20	Enclosure C1	NS100	65771
25	Enclosure C1	NS100	65773
30	Enclosure C1	NS100	65775
40	Enclosure C1	NS100	65777
50	Enclosure C2	NS100	65779
60	Enclosure C2	NS160	65781
75	Enclosure C2	NS250	65783
90	Enclosure C2	NS250	65785
105	Enclosure C2	NS250	65787
120	Enclosure C2	NS250	65789

#### Technical data

- capacitor rated voltage: 480 V, 3-phase 50 Hz
- capacitance value tolerance: -5, +10 %
- insulation level:
  - 0.69 kV
  - withstand 50 Hz, 1 minute: 2.5 kV
- maximum permissible current: 30 % max. (400 V)
- maximum permissible voltage increase (8 hours over 24 hours as in IEC 60831): 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
- 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.

Accessory for Varset Direct Comfort	Ref.
Free-standing plinth for enclosures C1 and C2	65980

#### Installation

■ Enclosure: wall mounting or by free standing plinth (accessory) with top connection of power cables.

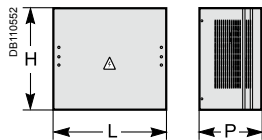
#### Options

- fixed compensation step
- extension
- top entry cables connection
- please consult us for other options.

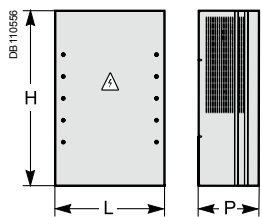
#### Dimensions

Varset Direct Comfort "with or without incoming circuit breaker"

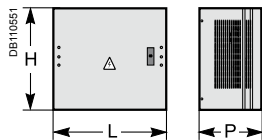
400 V (kvar)	Type	Dimensions (mm)			Weight (kg)
		H	W	D	
10	Enclosure C1	450	500	275	20
15	Enclosure C1	450	500	275	20
20	Enclosure C1	450	500	275	20
25	Enclosure C1	450	500	275	20
30	Enclosure C1	450	500	275	20
40	Enclosure C1	450	500	275	20
50	Enclosure C2	800	500	275	40
60	Enclosure C2	800	500	275	45
75	Enclosure C2	800	500	275	45
90	Enclosure C2	800	500	275	50
105	Enclosure C2	800	500	275	55
120	Enclosure C2	800	500	275	55



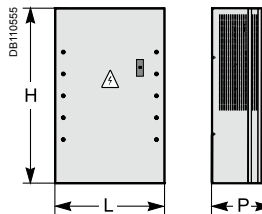
Enclosure C1 without incoming circuit breaker.



Enclosure C2 without incoming circuit breaker.



Enclosure C1 with incoming circuit breaker.



Enclosure C2 with incoming circuit breaker.

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Cubicle A2 with or without incoming circuit breaker.

#### Varset Direct Harmony

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

Varset Direct Harmony "without incoming circuit breaker"			
400 V (kvar)	Type		Ref.
6.25	Cubicle A2		65866
12.5	Cubicle A2		65868
25	Cubicle A2		65870
37.5	Cubicle A2		65872
50	Cubicle A2		65874
75	Cubicle A2		65876
100	Cubicle A2		65878
125	Cubicle A2		65880
150	Cubicle A2		65882

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

Varset Direct Harmony "with incoming circuit breaker"			
400 V (kvar)	Type	Circuit breaker	Ref.
6.25	Cubicle A2	NS100	65867
12.5	Cubicle A2	NS100	65869
25	Cubicle A2	NS100	65871
37.5	Cubicle A2	NS100	65873
50	Cubicle A2	NS100	65875
75	Cubicle A2	NS160	65877
100	Cubicle A2	NS250	65879
125	Cubicle A2	NS250	65881
150	Cubicle A2	NS400	65883

#### Technical data

- capacitor rated voltage: 480 V, 3-phase 50 Hz
- tuning order: 4.3 (215 Hz)
- capacitance value tolerance: -5, +10 %
- insulation level:
  - 0.69 kV
  - withstand 50 Hz, 1 minute: 2.5 kV
- maximum permissible current: 30 % max. (400 V)
- maximum permissible voltage increase (8 hours over 24 hours as in IEC 60831): 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.

Accessory for Varset Direct Harmony	Ref.
Free-standing plinth for enclosures C1 and C2	65980

#### Installation

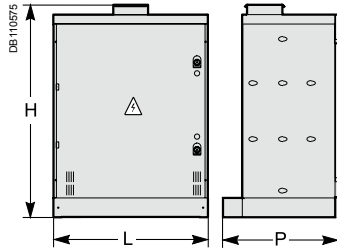
- cubicle: free standing cubicle with bottom connection of power cables to the busbar pads.

#### Options

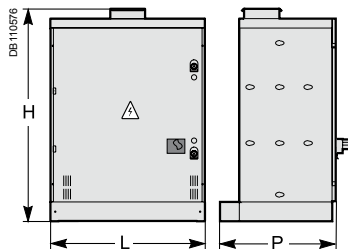
- fixed compensation step
- extension
- top entry cables connection
- please consult us for other options.

#### Dimensions

Varset Direct Harmony "with or without incoming circuit breaker"					
400 V (kvar)	Type	Dimensions (mm)			Weight (kg)
		H	W	D	
6.25	Cubicle A2	1100	800	600	100
12.5	Cubicle A2	1100	800	600	100
25	Cubicle A2	1100	800	600	110
37.5	Cubicle A2	1100	800	600	120
50	Cubicle A2	1100	800	600	130
75	Cubicle A2	1100	800	600	150
100	Cubicle A2	1100	800	600	170
125	Cubicle A2	1100	800	600	190
150	Cubicle A2	1100	800	600	300



Cubicle A2 without incoming circuit breaker.



Cubicle A2 with incoming circuit breaker.