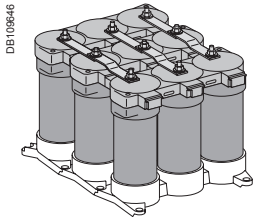


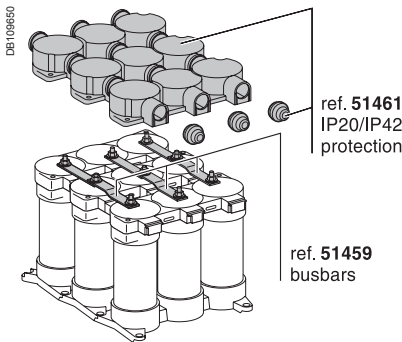
Varplus² modular capacitors allow by their different assembly combination to cover many power ratings (kvar) depending on the voltage (V), frequency (Hz) and harmonic pollution level of the network.



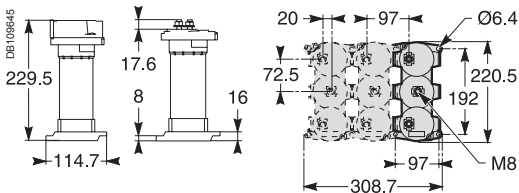
Varplus² IP00



Example of Varplus² IP00 assembly.



Varplus² accessories.



Weight of Varplus² 2.1 kg.

Slightly polluted and polluted network (Gh/Sn ≤ 25 %)

| Varplus ² | | |
|----------------------|--------------|-------------------|
| 440 V (kvar) | 480 V (kvar) | Reference |
| 7.3 | 8.6 | 51325 |
| 9.1 | 10.8 | 51327 |
| 10.9 | 13 | 51329 |
| 15.4 | 18.4 | 51331 |
| 16.9 | 20.2 | 51333 |
| 22.4 | | 51335 |
| Assembly advised | | |
| 30.8 | 36.8 | 2 x 51331 |
| 44.8 | | 2 x 51335 |
| 50.7 | 60.6 | 3 x 51333 |
| 60.2 | | 2 x 51335 + 51331 |
| 67.2 | | 3 x 51335 |
| 76.3 | | 3 x 51335 + 51327 |

Maximum mechanical assembly: 4 capacitors and 76 kvar 440/480 V.
 Assembly > 76 kvar: see conditions to respect in Varplus² user manual.

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

Capacitors rated 550 V will be used with detuned reactor (see page 480 V - 60 Hz).

Technical data

- capacitor rated voltage: 480 V, 3-phase 60 Hz for slightly polluted network
- HQ protection system built into each single phase element
- high current fault protection by HRC cartridge fuse
- low current fault protection by combination of single phase internal overpressure device with the HRC fuse
- capacitance value tolerance: -5, +10 %
- insulation level:
 - withstand 60 Hz 1 minute: 4 kV
 - impulse wave withstand 1.2/50 μs: 15 kV
- voltage test: 2.15 Un (rated voltage) for 10 s
- maximum permissible overloads at service voltage network as per IEC 60831 1/2:
 - current: 30 % permanently
 - voltage: 10 % (8 hours over 24 hours)
- with internally fitted discharge resistors: residual voltage less than 50 V in 1 minute
- total losses: less than 0.5 Watt/kvar (discharge resistors included)
- temperature class D (+55 °C):
 - maximum: 55 °C
 - average over 24 hours: 45 °C
 - average over 1 year: 35 °C
 - maximum: -25 °C
- colour:
 - elements: RAL 9005
 - base and cover: RAL 7030
- standards: IEC 60831 1/2, CSA 22-2 N°190, UL 810
- execution: indoor
- protection:
 - IP00 without cover
 - IP20 or IP42 see accessories
- no earth connection is needed
- terminals: 3 M8 rods allowing 360° cable connection (without cover).

| Accessories for Varplus ² | Reference |
|--|-----------|
| 1 set of 3-phase copper bars for connection and assembly of 2 and 3 capacitors | 51459 |
| 1 set of protective cover (IP20) and cable glands (IP42) for 1, 2 and 3 capacitors | 51461 |

Installation

All positions are convenient except vertical one with connecting terminals upside down. Fixing holes for M6 screws. A kit to replace Varplus by Varplus² is available (ref. 51298).