

## Power factor correction and harmonic filtering

# Capacitors and banks 50 Hz

## 230 V network voltage

### Varset Direct Classic

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"

| 230 V (kvar) | Type         | Ref.  |
|--------------|--------------|-------|
| 10           | Enclosure C1 | 65884 |
| 15           | Enclosure C1 | 65886 |
| 20           | Enclosure C1 | 65888 |
| 25           | Enclosure C1 | 65890 |
| 30           | Enclosure C1 | 65892 |
| 40           | Enclosure C1 | 65894 |
| 50           | Enclosure C2 | 65896 |
| 60           | Enclosure C2 | 65898 |

##### Varset Direct Classic "with incoming circuit breaker"

| 230 V (kvar) | Type         | Circuit breaker | Ref.  |
|--------------|--------------|-----------------|-------|
| 10           | Enclosure C1 | NS100           | 65885 |
| 15           | Enclosure C1 | NS100           | 65887 |
| 20           | Enclosure C1 | NS100           | 65889 |
| 25           | Enclosure C1 | NS100           | 65891 |
| 30           | Enclosure C1 | NS100           | 65893 |
| 40           | Enclosure C1 | NS100           | 65895 |
| 50           | Enclosure C2 | NS100           | 65897 |
| 60           | Enclosure C2 | NS160           | 65899 |

#### Technical data

- capacitor rated voltage: 230 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

| Accessory for Varset Direct Classic           | 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.

#### Dimensions

##### Varset Direct Classic "with or without incoming circuit breaker"

| 230 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 | 30          |
| 60           | Enclosure C2 | 800             | 500 | 275 | 35          |

