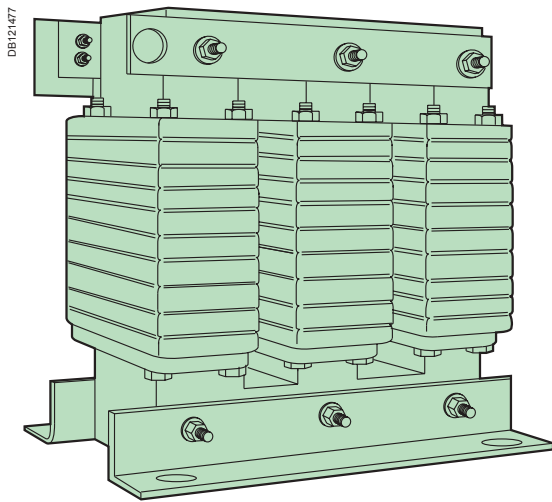




Detuned reactor

51563	51568	52354
51564	51569	52404
51565	51573	52405
51566	52352	52406
51567	52353	52407



Acceptance

Equipment acceptance

- our products are shipped carriage forward or carriage paid and at recipient's risk
- we disclaim all responsibility for any missing goods or for damage caused by the carrier. Any complaints should be sent to the carrier by registered letter
- check that no parcels are missing and that the equipment has not been subjected to any impact liable to impair its insulation and operation
- check that the electrical characteristics indicated on the rating plate correspond to those specified on the order form
- If this is not the case, please enclose the dispatch note reference with your complaint.

Handling

- unpack the equipment on the site where it is to be installed
 - ensure that it is not subjected to any impact or deformation
 - place the equipment in a sling using the lifting rings provided for this purpose. The angle between the slings (or chains) must not exceed 60°.
- If a fork-lift truck is used, ensure that the type of fork is appropriate for the size and total weight of the reactor.

Storage

- store the equipment in a dry, well-ventilated area sheltered from rain, water spray, chemicals and dust
- wrap the equipment in a sheet or cover providing effective protection against dust, debris, paint and so on
- storage temperature: -20 °C to +60 °C
- check the condition of the reactor after storage.

Caution

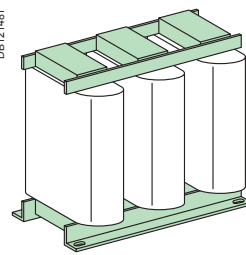
The reactor must not be installed in an area that is liable to flooding.
No special measures need to be taken, apart from the usual precautions required for equipment that is supplied uncrated, as the absence of liquid dielectric ensures that the equipment will not be damaged by heat or cold.
No particular fire precautions are required.

Reactors for 400 V 50 Hz network

4.3 tuning order (215 Hz)				
Unit output	L (mH)	I (A)	Power loss Ps (W)	Reference
6.25 kvar / 400 V - 50 Hz	4.71	9	100	51573
12.5 kvar / 400 V - 50 Hz	2.37	17.9	150	52404
25 kvar / 400 V - 50 Hz	1.18	35.8	200	52405
50 kvar / 400 V - 50 Hz	0.592	71.6	320	52406
100 kvar / 400 V - 50 Hz	0.296	143	480	52407

3.8 tuning order (190 Hz)				
Unit output	L (mH)	I (A)	Power loss Ps (W)	Reference
6.25 kvar / 400 V - 50 Hz	6.3	9.1	100	51568
12.5 kvar / 400 V - 50 Hz	3	18.2	150	52352
25 kvar / 400 V - 50 Hz	1.5	36.4	205	52353
50 kvar / 400 V - 50 Hz	0.75	72.8	330	52354
100 kvar / 400 V - 50 Hz	0.37	145.6	450	51569

DR 400 V - 50 Hz supply



2.7 tuning order (135 Hz)				
Unit output	L (mH)	I (A)	Power loss Ps (W)	Reference
6.25 kvar / 400 V - 50 Hz	12.56	9.3	100	51563
12.5 kvar / 400 V - 50 Hz	6.63	17.6	150	51564
25 kvar / 400 V - 50 Hz	3.14	37.2	200	51565
50 kvar / 400 V - 50 Hz	1.57	74.5	400	51566
100 kvar / 400 V - 50 Hz	0.78	149	600	51567

Dimensions 4.3 tuning order (215 Hz)				
Unit output	Mounting hole centerline (mm)	H	W	D
6.25 kvar / 400 V - 50 Hz	110 x 87	230	200	140
12.5 kvar / 400 V - 50 Hz	205 x 110	230	245	140
25 kvar / 400 V - 50 Hz	205 x 110	230	240	140
50 kvar / 400 V - 50 Hz	see ⁽¹⁾	270	260	160
100 kvar / 400 V - 50 Hz	205 x 120	330	380	220

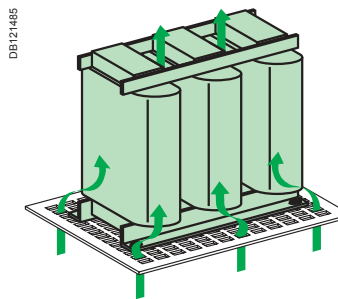
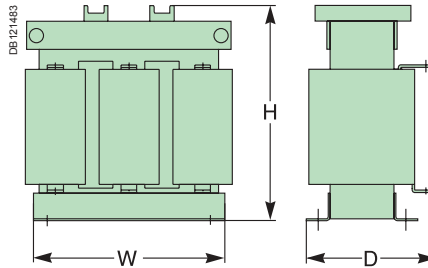
(1) 205 x 120 ou 205 x 130

Dimensions 3.8 tuning order (190 Hz)				
Unit output	Mounting hole centerline (mm)	H	W	D
6.25 kvar / 400 V - 50 Hz	110 x 87	230	200	140
12.5 kvar / 400 V - 50 Hz	205 x 110	230	245	140
25 kvar / 400 V - 50 Hz	205 x 110	230	240	140
50 kvar / 400 V - 50 Hz	see ⁽¹⁾	270	260	160
100 kvar / 400 V - 50 Hz	205 x 120	330	380	220

(1) 205 x 120 ou 205 x 130

Dimensions 2.7 tuning order (135 Hz)				
Unit output	Mounting hole centerline (mm)	H	W	D
6.25 kvar / 400 V - 50 Hz	110 x 87	230	200	140
12.5 kvar / 400 V - 50 Hz	205 x 110	230	245	140
25 kvar / 400 V - 50 Hz	205 x 110	230	240	140
50 kvar / 400 V - 50 Hz	see ⁽¹⁾	270	260	160
100 kvar / 400 V - 50 Hz	205 x 120	330	380	220

(1) 205 x 120 ou 205 x 130



Ventilation

The ventilation rules apply, provided the temperature of the ambient air around the electrical cubicle is within the limits specified in IEC 60439-1:

- max. temperature: 40 °C
- average temperature over a 24-hour period: 35 °C
- average temperature over a one-year period: 25 °C.

Ventilation for banks with detuned reactor

Detuned reactors always require a forced ventilation system.

They must be installed:

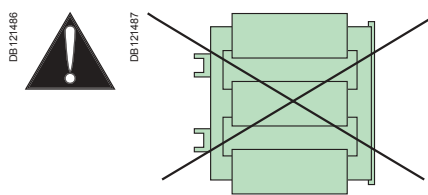
- in a separate column
- or in the same column as the capacitors, but in a separate compartment at the top of the cubicle; caution: never install reactors below capacitors, as the capacitors may overheat.

Please note that the capacitor compartment must be ventilated.

The DR section must be ventilated according to the power loss in W (PS).

The minimum air flow must be: $F = 0.3 \times PS$

(PS = power loss)



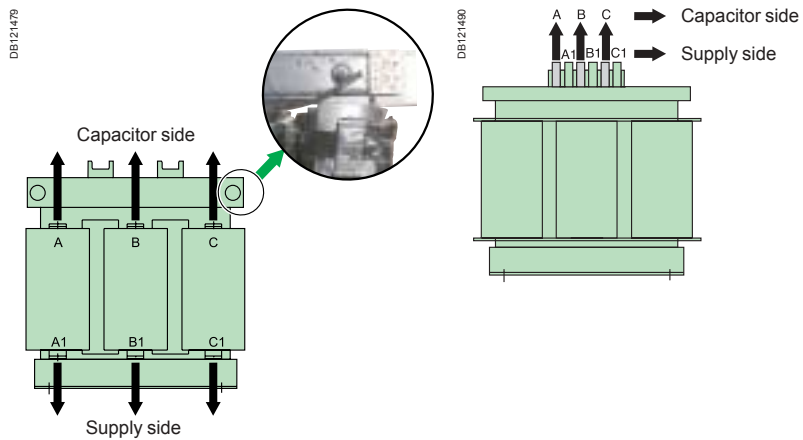


Example:

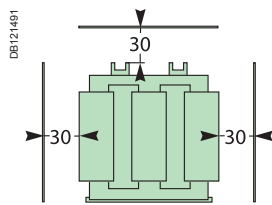
DR bank 100 kvar en 1 x 50 kvar + 2 x 25 kvar:
tuning frequency 215 hz
● DR compartment: forced ventilation
 $P_s = 320 + 2 \times 200 = 720 \text{ W}$
 $F = 0.3 \times 720 = 216 \text{ m}^3/\text{h}$

Electrical connection

Temperature sensor terminal box to switch off the equipment in event of overheating;
normally closed contact (250 V CA; 2 A)



Installation distances



Maintenance

Protection of people

Before carrying out any maintenance work on the equipment:

- de-energise it.

Checks

One month after energising, check:

- the reactor terminals for tightness.

Once a year, check the following:

- the general cleanliness of the equipment
- the ventilation system and filters
- the electrical connection terminals for tightness
- the condition of the reactors
- the temperature of the area where the equipment is located.

Safety

All the operations described in this document shall be performed in accordance with current safety standards and under the responsibility of a competent authority.

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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.



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