

CUBICLE TYPE AUTOMATIC CAPACITOR BANK



Automatic capacitor banks are used for central power factor correction at main and group distribution boards. Power factor correction means that reactive power charges levied by electricity suppliers can be avoided. Automatic capacitor banks consist of stages controlled by a reactive power controller, which ensures that the required capacitor power is always connected to the system.

Cubicle-type automatic capacitor banks from Nokian Capacitors are modular in structure. All the components for a single stage (capacitor unit, contactor and fuses) are built into one module. This makes maintenance very easy, and the capacitor banks can also be easily expanded. Expansion is allowed for in the cabling recommendations.

In the case of larger banks (over 300 kvar), the modules are installed as sub-banks in several cubicles with a shared reactive power controller. In this case each cubicle requires its own fused feeder at the distribution board.

Important: When selecting compensation for a system which contains harmonic generating load, check that the automatic capacitor bank is suitable for the purpose. In systems where harmonics are present, compensation must be by means of an automatic capacitor bank with blocking reactors (de-tuned filters) or a harmonic filter (tuned filter).

ADVANTAGES OF CUBICLE-TYPE BANK

- wide range of connectivity options
- modular construction
- expandability
- easy maintenance
- compact size (only 600 mm wide)
- cooling vents, fan
- also available to order:
version fitted with main switch

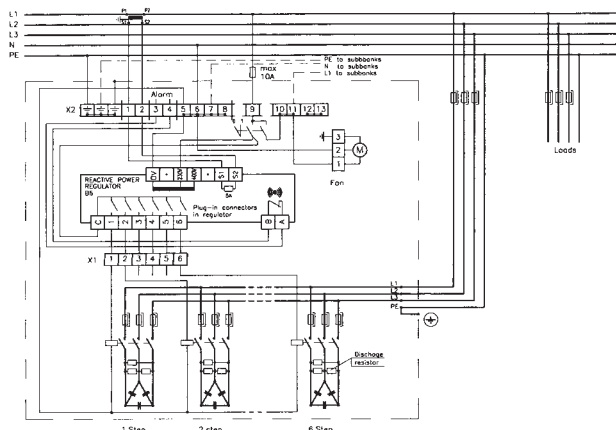
TECHNICAL SPECIFICATIONS

Rated voltage: 400...690 V
Rated power: 100...300 kvar/cubicle
Tolerance: -0/+10%
Total losses: <1.3 W/kvar
Installation indoors: Temperature class
 min 0°C max +40°C
 - average (24 h) +30°C
 - average (1 year) +20°C

Enclosure class: IP20C
Standard: IEC 831, EN 60439-1
 EN 60439-3
Colour: light grey, RAL 7032



1. Fan
2. Lifting eyes
3. Reactive power controller
4. Modular structure
5. Cable entry
 - top
 - base



In line with our policy on-going product development we reserve the right to alter specifications.

AUTOMATIC CAPACITOR BANK Un = 400V, 50 Hz; CUBICLE TYPE IP20C

Type	kvar	Stages kvar	Rated current In/A	Fuse A	Expandability kvar
2SX100	100	2*50	144	3*200	100
2HX1S100	100	2*25+50	144	3*200	50
HX2S125	125	25+2*50	180	3*250	50
3SX150	150	3*50	217	3*315	50
2HX2S150	150	2*25+2*50	217	3*315	-
HX3S175	175	25+3*50	253	3*400	-
4SX200	200	4*50	289	3*400	-
HX4S225	225	25+4*50	325	3*500	50
5SX250	250	5*50	361	3*500	50
HX5S275	275	25+5*50	397	3*630	-
6SX300	300	6*50	433	3*630	-



Nokian Capacitors Ltd.
 Kaapelikatu 3, P.O. Box 4
 FI-33331 Tampere, Finland
 Tel. +358 3 3883 11, fax +358 3 3883 360
 www.nokiancapacitors.com