



LV POWER FACTOR CORRECTION

SEALED BOX / CBAmX - 3

OVERALL PROTECTION FROM WIND , SAND, DUST, WATER.

MADE IN ITALY

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VERS. 2-16

GRUPPO ENERGIA CAPACITORS

made in italy

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New



SEALED BOX / CBAmX-3 APPLICATION

SEALED BOX WITH DOUBLE DOORS: A real demonstration of effectiveness, resistance, strength and high reliability in critical climatic and environmental conditions all over the world

APPLICATIONS:

- OIL AND GAS INDUSTRY OFFSHORE AND ONSHORE APPLICATION
- SAND, LIMESTONE AND OTHER QUARRIES
- CEMENT PLANTS
- SAWMILLS
- OTHER INDUSTRIES WITH CRITICAL LEVEL OF DUST

TECHNICAL CHARACTERISTICS

• Rated Voltage:	230 / 690V AC
• Rated Frequency:	50Hz (60Hz on request)
• Power range:	20k / 250kVAR
• Insulating Voltage (Bank):	690V
• Max Voltage overload Vn (Capacitor):	according to standard IEC 60831-1/2
• Max Voltage overload Vn (Bank):	1,1xVn
• Max Current overload In (Bank):	1,3xIn
• Temperature range (Capacitor):	(-25/+55 C)
• Temperature range (Bank):	(-5/+45 C)
• Installation:	indoor / outdoor (with rain hood)
• Operation devices:	capacitors contractors with dumping resistors
• Switch device:	load / break switch with door interlock and integrated sensor (Second door)
• PF regulation:	automatic power factor controller
• Capacitors:	Three-Phase cylindrical film capacitors (PLUS series)
• Power/Step configuration:	on request
• Power/Step indication:	Led indication for each step (First door)
• Auxiliary transformer:	to separate power and auxiliary circuits
• Service:	continuous
• Reference standard for banks:	IEC / EN 60439-1/2 IEC / EN 61921-1
• Reference standard for capacitors:	IEC 60831-1/2
• Reference standard for enclosure:	IP66 (IEC EN62208; EN60529) / NEMA 12,13 (UL508A; UL50) IK10 (IEC EN62208; EN50102)
• Quality management system:	ISO 9001:2008

PARTICULARITY

- **Double door – complete wind,sand,dust,water protection**
- **Easy installation - versatile wall mounted enclosure solution**



ENCLOSURE

- Body provided with reverse bend which forms a rain gutter to divert liquids and ensure the IP66 protection degree.
- Foamed-in polyurethane gasket guarantees maximum protection to the user and equipment.
- Back of the box provided with holes for wall mounting brackets that can be placed both horizontally and vertically.
- Large cable entry opening placed in the most far back position and provided with embedded gland plate with neoprene seal.
- The doors is secured by means of two or three invisible hinges.
- Painted with Epoxy Polyester powder coating RAL 7035 textured finish.

TEMPERATURE RESISTANCE - COOLING

- Air inlet is provided by fitted protected grids at the panel bottom
- Air exhaust is provided by a suitable fan and protected grids at the panel top, in order to guarantee a quicker replacement of the inside hot air with cool air from outside and keep the internal ambient temperature of the panel at the desired level
- Positioning of the capacitors in the lower part near of the fitted protected grids in one line only, allows the optimal cooling
- The temperature level inside of the panel is continually monitored by power controller

POWER FACTOR CORRECTION CAPACITORS - PLUS SERIES

- **PLUS SERIES** is especially designed to reinforce the resistance to the electrical phenomena on unstable electrical networks.
- **PLUS SERIES** is particularly intended for industrial application with a long life and constant capacitance.
- **CHARACTERISTICS:**
 - Three-Phase cylindrical Film capacitors
 - Self-healing design
 - Dry technology (Biodegradabile resin NON PCB)
 - Integrated overpressure safety device
 - Complete with discharge resistor
 - High degree of temperature resistance.

BENEFITS OF POWER FACTOR CORRECTION

- **Reduce Utility Costs:** improved Power Factor can reduce or eliminate Power Factor penalties from Utility Co
- **Improve System Capacity :** additional loads can be added to the facility for the same KVA
- **Reduce Capital Spending:** utilize existing infrastructure
- **Increase the Life Span of motors, equipment, and conductors**

