

ELECTRICAL SYSTEMS

MOTOR CONTROL CENTERS (MCC)



GENERAL DESCRIPTION

Motor Control Centers (MCC) is an assembly of one or more enclosed sections having a common power bus and principally containing motor control units. Also, MCC could include variable-frequency drives (VFD), programmable controllers and metering. It can be combined with the electrical service entrance during the building process. They are usually used for low voltage three-phase alternating current motors from 230 volts to 600 volts. A motor controller includes a manual or automatic means for starting and stopping the motor, choosing forward or reverse rotation, selecting and regulating the speed, adjusting or limiting the torque and protecting against overloads and faults.

It is comprised of a free-standing enclosure, a bus bar system, MCCB's, metering, supporting equipments and appropriate current transformers. Panels are then assembled in a systematic manner such as incoming and outgoing section. Motor Control Centers are used to distribute and control the power supply in large buildings such as shopping malls, hospitals, universities, Factories, and hotels.

The Motor Control Centers are generally installed after the MDB and could include variable-frequency drives (VFD). They serve an important purpose and cannot be ignored at any cost. One of the most important devices, they make sure that the current is properly distributed to all the devices allowing proper functioning. This also makes sure that none of the devices suffer from the effects of over currents or short circuits.



MOTOR CONTROL CENTERS DESIGN

The options offered by **Basiia Contracting** MCCs are versatile enough to meet the needs of any construction site. The wall-mounted, free standing and modular cabinets meet the demands found in domestic, commercial and industrial buildings. The predominantly used material is sheet steel. Our Motor Control Centers are designed for an easy assembling using 3 basic elements: back plate, sides and top and base panels or top panel and plinth. The vertical and horizontal combination of elements makes it possible to build “tailor made” enclosures for most requirements and customize projects. Thanks to slim packaging, storage and transport are optimized.



WHY CHOOSE BASIIA CONTRACTING MOTOR CONTROL CENTERS (MCC)?

- Fully type tested assemblies as per IEC 61439-1
- Rated up to 4000A
- Rated operating voltage up to 690V
- Manufactured in Form 2, Form 3 & Form 4 construction
- Type tested for 65kA/3 sec, 50kA/3 sec
- Top and bottom cable entry
- Panels for front or rear access to suit any application
- Protection class IP 42 to IP 54
- Free standard Floor mounting system
- Maximum safety & reliability
- Custom designed according to client's requirements

