VR PAINÉIS
ENERGIA SOB CONTROLE

line
VR VIRTUS

MOTOR CONTROL CENTER - MCC **LOW VOLTAGE**

High reliability and operational availability with minimal tooling needs.

SYSTEM CERTIFICATION ISO 9001 SGS

ENSAIO DE ARCO INTERNO
CERTIFICAÇÃO
15KV - 16KA - 1S
NBR-IEC - 62271-200
CEPEL - RJ

MOTOR CONTROL CENTER (MCC) **LOW VOLTAGE**

The VR Painéis' Motor Control Center is designed for the protection, maneuver and control of low-voltage motors meeting the requirements of IEC 60439-1 standard. The main structure of the panel consists of two frames of ring type (welded), front and rear, 2 upper side beams and a lower upstream that, duly bolted together constitute the set. The structure consists of G-type closed profile (3 fold) on 12 MSG gauge plate (2.65 mm).

- High reliability and operational availability with minimal tools needs.
- The coupling between the parts of the panel is carried out simply and quickly and safely and can even be performed in the field.
- Interchangeable drawers.
- Opening of the door with angle of 120°.
- Maximum number of 12 drawers plaque 1.0 per column.
- Excellent personal protection meeting the specifications of the NR-10.
- Certified by CEPEL and IEE-USP.
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Construction Features

- Housed use
- Inputs and output of lower cables
- Voltage Class 690 V
- Frequency 50/60Hz
- Rated current of the main busbars up to 3150 A (others on request) and vertical busbars 630 and 800 A
- Short-term current 65 kA (tested in CEPEL)
- Ambient temperature 40°C (others on request)
- IP-42 degree of protection (others on request)
- Surface treatment of sheets and busbars: - External sheets: phosphatization chemical process - Busbar: galvanic process of tinning - Internal parts, drawers, shields: galvanized sheet
- Finishing of treated surfaces: - Epoxy paint light gray powder RAL 7032 for doors, sides and ceiling - Epoxy paint dark gray powder Munsell N3.5 for eyelets and brackets for attaching buttons and signalers.
- Basic dimensions: - Height: 2300 mm - Width: 400, 500, 600 and 800mm - Depth: 500, 600, 800 (1000 and 1200mm in back-to-back configuration)
- Internal separation Form: 3b and 4b (optional)

Fixed MCC

The fixed MCCs have standardized mountings, whose minimum size is the plate 1.0 (125mm height housing) fixed by means of screws and internal segregation (form 3b).

Extractable MCC - Characteristics of Extractable Drawers

- The extractable drawers of our MCCs operate according to the requirements of the NR-10
- The operation of the drawer is performed with the door closed.
- The insertion of the drawer in the column is carried out only if positioned on the extracted position and the general circuit breaker in off position.
- The mechanical interlocking system of the general circuit breaker locks the drawer preventing the extraction when the breaker is on.
- The overall circuit breaker is operated in the inserted position and test with drawer inside the column.
- The drawer has latches allowing its maintenance is carried out with the door open without the risk of falling.
- The drawer has a device which acts when it is in the extracted position allowing the use of padlocks preventing the insertion, test and extraction operations.
- The column has guillotine blocking access to the busbar when the drawer is out of its compartment.
- The drawers are interchangeable with "secret" option which prevents insertion of equal drawers designed for different loads in specific compartments within the column.
- The door of drawers has fasteners with device for use of lock preventing its insertion or extraction.
- In construction 4b, the load outputs have articulated segregations with zip.

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