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# MNS R Power Motor Control Center

## Customer value proposition

# MNS R Customers value proposition

## Top performances



Top performances able to satisfy all customers' requests without modifying the plant engineering

- Rated current main busbars ( $I_e$ ) up to 8000A
- Rated current distribution busbars ( $I_e$ ) up to 4000A
- Rated short time withstand current ( $I_{cw}$ ) up to 150kA - 1s
- Rated peak withstand current ( $I_{pk}$ ) up to 330 kA
- Arc fault containment up to 100kA

# MNS R Customers value proposition

## Maximum flexibility



Fully adaptable to customer needs with the wide range of possible configurations:

- Power center and motor control center application
- Reduce footprint with air circuit breakers multilevel layout
- Fully modular design with three main busbars locations
- Power cables entry from top or bottom
- Top or bottom bus duct connection for high currents
- Possibility to have busbars sleeved, tinned or silvered



# MNS R Customers value proposition

## Fully type tested



The MNS R has been tested and certificated according the main international standards

- IEC 61439
- IEC Publication 61166, IEEE Std 693 and UBC 1997 for seismicity
- TR 61641 for the arc proof execution

# MNS R Customers value proposition

## Low meantime to repair and low maintenance cost



Due to the innovative busbars design no drill needed for branch connections:

- Reduce downtime to modify existing feeder
- Reduce downtime to equip spare units
- Reduce downtime to change branch busbars size



Breakers execution to reduce maintenance time:

- Withdrawable ACBs
- Withdrawable or plug-in MCCBs

# MNS R Customers value proposition

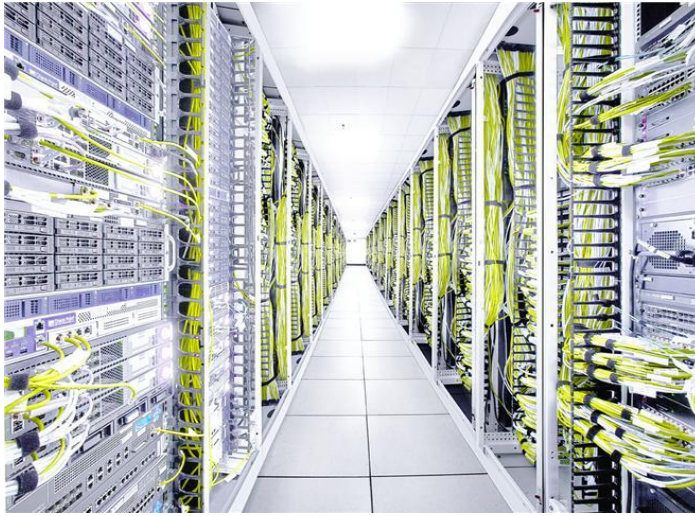
## Highest safety standards



- MNS R is internal arc tested according to IEC TR61641 and guarantees highest level of personnel safety
- Modular design, internal segregation and easy access ensuring highest safety for operation, inspection and maintenance.
- IP 2x protection guarantee on the MCC panels also with modules removed thanks to the ABB multifunctional wall
- Segregate Rear Power Cables to guarantee maximum safety



# MNS R Customers value proposition Reference



Worldwide reference in the most critical application :

- Data center
- Oil & gas
- Chemical
- Infrastructure
- Airport
- Power plant
- Hospital
- Marine
- Water & Waste Water



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