



Emotron high power  
drive solutions

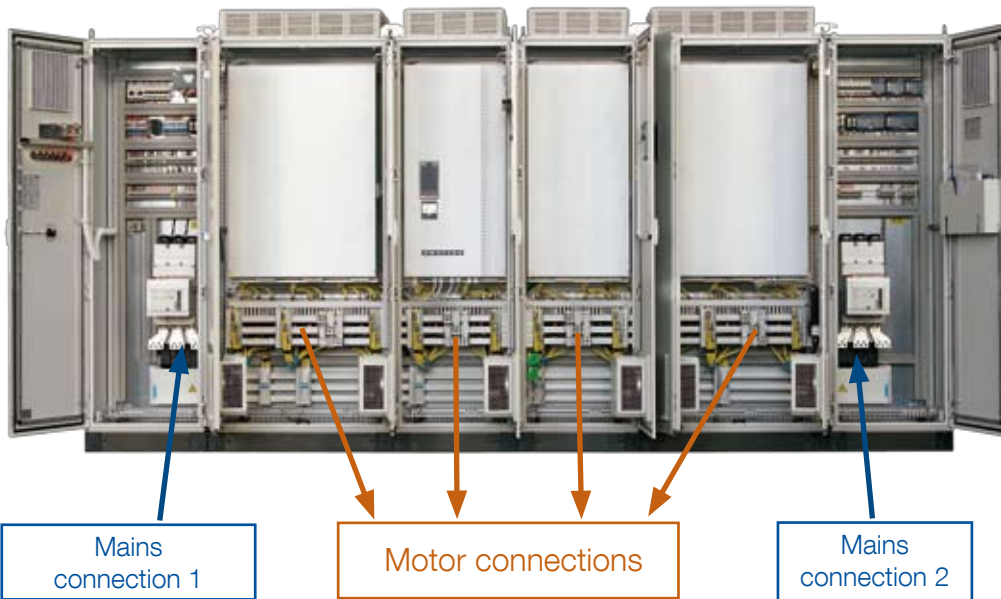
# Modular drive concept for flexible configuration



**Type A 600 mm drive cabinet:**  
Emotron FDU/VFX 2.0  
160-355 kW, 400/690 V, IP23/IP54



**Type B 900 mm drive cabinet:**  
Emotron FDU/VFX 2.0  
315-500 kW, 400/690 V, IP23/IP54



**Example of high power drive solution using a combination of type A and B drive cabinets:**  
Emotron FDU/VFX 2.0  
2,000 kW, 690 V, 12-pulse, IP54

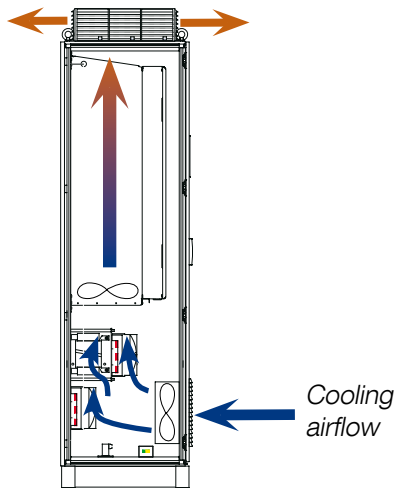
## Wide product range

- Power: Up to 3,000 kW
- Voltage: 3-phase 230-690 V
- Protection class: IP23 and IP54

## Cost-efficient cabinet design

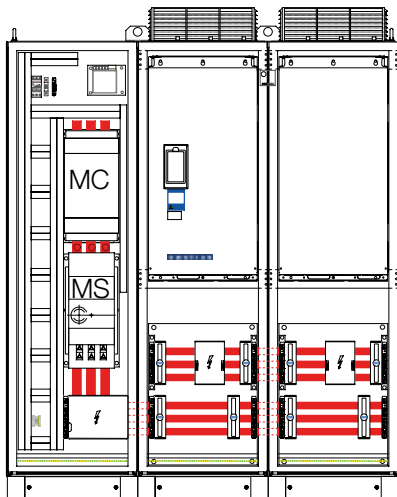
The robust high quality Emotron FDU/VFX 2.0 AC drives are available with cost-efficient cabinet systems.

- Cost-efficient standard design, based on Rittal TS8 cabinets
- Optimized IP23/IP54 cooling systems
- Modular concept for flexible configuration with two cabinet sizes, 600 and 900 mm wide
- Cabinet height 2,250 mm, including 100 mm base and roof air-out vents
- Cabinet depth 600 mm in all powers
- Temperature controlled cooling with or without door fans and filters
- Bottom entry/exit busbars as standard
- Tin-plated busbars with covers provided for both supply and motor side



## Full flexibility with options

- Designed for 6- and 12-pulse solutions
- Optional main switch cabinet (one at each end for 12-pulse drives)
- Standard cabinet options:
  - Main switch
  - Circuit breaker
  - Motorized circuit breaker for 12-pulse solution
  - Main contactor (all powers)
  - Output choke (space reserved in standard size cabinet)
  - Overshoot clamp
  - Common mode filter
  - Module built-in brake chopper
- All standard Emotron FDU/VFX AC drive options
- Liquid cooling



## Simple installation and maintenance

- Easy to change 3-phase power modules (PEBB) used in drive sizes from 160 kW
- Spacious and easy to access power connections to simplify installation work
- Passive roof with dust filters for IP54 protection
- Front access to control board and control connections
- Door mounted control panel
- Flexible support for cabinet shipping splits with "plug-and-play" connections
- Same system design for 400 V and 690 V drives
- Complete set of drawings and manuals delivered with each drive



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