

# MC-Cub

Motor Control Center with fixed units  
up to 6300 A



A large cruise ship is shown at night, illuminated by warm lights. The ship's multiple decks are visible, with railings and windows. A large, white, stylized letter 'C' is superimposed over the center of the image. The background is a deep blue sky and the dark sea.

*Lafer. Around you*





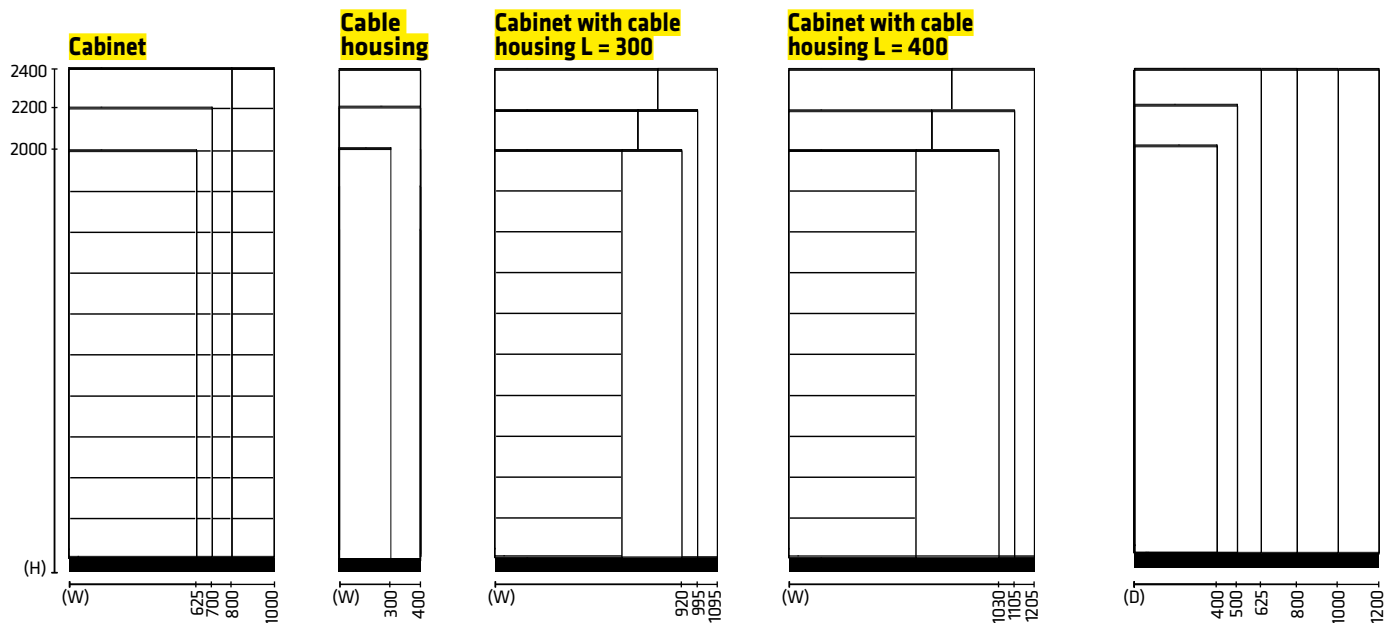
**Designed and produced for starting and motor control center.**

**They offer a quick wiring solution with many solutions: rear busbars, side busbars and rear busbars with tunnel.**

### **Main characteristics**

- Assembled structure made of sheet with a thickness of 2 mm.
- Degree of protection from IP30 (open version) to IP55 with blind door or transparent door with toughened glass.
- Compartment with hinged cover, wiring plate, horizontal partition and side segregation.
- Possibility of side connection.
- Installation of circuit breakers of all leading manufacturers (ABB, Schneider, Siemens, etc.).
- Epoxy powder coating after phosphating in RAL 7035 B (other colours on request).
- Patented and certified earth connection system.
- Plinth with reinforced covering flanges for a handling on rollers.
- Full range of internal finishing accessories to provide solutions for any requirement.
- On request, stainless steel cabinet.

# Technical specifications



	Width (W) mm	Height (H) mm	Depth (D) mm
Cabinet	625	2000 / 2200 / 2400 (usable space = H - 400)	400 / 500 / 625 / 800 / 1000 / 1200 (usable space = 300 / 400)
	700		
	800		
	1000		
Cable housing	300	2000 / 2200 / 2400 (usable space = H - 400)	400 / 500 / 625 / 800 / 1000 / 1200 (usable space = 300 / 400)
	400		
Cabinet with cable housing	625 + 300	2000 / 2200 / 2400 (usable space = H - 400)	400 / 500 / 625 / 800 / 1000 / 1200 (usable space = 300 / 400)
	700 + 300		
	800 + 300		
	625 + 400		
	700 + 400		
	800 + 400		
Back to back cabinet	On request		

<b>Electrical data</b>	Voltage ratings	Rated insulation voltage ( $U_i$ )	1000 V
		Rated operational voltage ( $U_e$ )	690 V
		Rated impulse withstand voltage ( $U_{imp}$ )	6 / 8 / 12 kV
		Rated frequency ( $f_n$ )	50 / 60 Hz
	Current ratings	Rated current ( $I_n$ )	Up to 6300 A
		Rated short-time withstand current for 1 sec. ( $I_{cw}$ )	70 kA

<b>Mechanical characteristics</b>	IP degree of protection	Internal	Up to IP2X
		External enclosure	From IP30 to IP55
	Covers height (h)	150 / 200 / 250 / 300 / 350 / 400 / 450 / 500 / 600 / 700 / 800 / 900 / 1000	
	IK test (shock resistance)	IK09 glazed door	
		IK10 blind door	
	Access	From the front / Side / Rear	
	Execution	Form 3b	
	Material	Structure	Pickled plate, 15/10 - 20/10 mm thick
		Accessories	Aluzinc® sheet steel, 15/10 - 20/10 mm thick
	Powder coating	Standard	RAL 7035 B light grey (orange peel)
		On request	Powder RAL colours and stainless steel
	Plastic components	Halogen-free, flame retardants, self-extinguishing, CFC-free	

All Lafer cabinets have been designed to be used in indoor environments. In case of outdoor applications, customers should require the supply of the specific rain canopy. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines.



# Typology

**Cabinet - rear busbars:** cabinet with sections and segregation form 3b. Vertical and horizontal busbar system placed at the back.



**Cabinet - rear busbars:** cabinet with sections and segregation form 3b. Vertical and horizontal busbar system placed at the back.



**Cabinet - rear busbars with tunnel:** cabinet with sections and segregation form 3b. Vertical busbar system placed at the back and horizontal busbar system placed on the top.



**Back to back cabinet:** cabinet with sections and segregation form 3b. Vertical busbar system placed on the sides or at the back and horizontal busbar system placed on the top.



**Inox:** on request, stainless steel cabinet.

# Busbar systems



**Smart-Energy Basic:** Horizontal busbar system up to 1250 A placed on the top of the cabinet.



**Smart-Energy Plus:** Horizontal busbar system up to 4000 A placed on the top of the cabinet.



**Smart-Energy Copper:** Horizontal busbar system up to 4000 A placed on the top of the cabinet.



**Smart-Energy Basic:** Vertical / Horizontal busbar system up to 4000 A placed on the back of the cabinet.



**Smart-Energy Plus:**



**Smart-Energy Copper:**



**Plain copper busbar:**



# Inner details



**Compartment - side bars:** with hinged cover, wiring plate, horizontal partition and lexan side segregation.



**Compartment - rear bars:** with hinged cover, wiring plate, horizontal partition and Aluzinc sheet steel side segregation.



**Upper segregation:** made of Aluzinc sheet steel with possibility of fixing the cable ducting.



**Terminal block support:** support for fixing the terminal block on a DIN rail inside the cable housing.

# Outer details

**IP30:** hinged cover, degree of protection IP30.



**IP41:** fixed cover with ventilation shutters and gasket, degree of protection IP41.



**IP42:** hinged cover with gasket, degree of protection IP42.



**IP54:** inner hinged covers and transparent toughened glass door, degree of protection IP54.

