

EASY

Electrical cabinets for
industrial and service sector
up to 630 A



GLAFER
Simple ideas for great projects | GROUP

EASY

Electrical cabinets for industrial and service sector up to 630 A

(IP30 – IP55, from FORM 1 to FORM 2).

Handy and practical.

They offer a quick wiring solution by removing completely the frontal part. Same internal accessories available for Quick, Slim and Compact series thanks to the ModularDIN™ system that enables rapidity and precision of the assembly of modular circuit breakers.

Main characteristics

- Assembled structure made of sheet with a thickness of 1,5 mm.
- Degree of protection from IP30 (open version) to IP55 with blind door or transparent door with toughened glass.
- Frontal part completely removable.
- 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.
- Full range of internal finishing accessories to provide solutions for any requirement.
- On request, stainless steel cabinet.



Typology



Cabinet: assembled structure made of sheet with a thickness of 1,5 mm.



Cabinet with cable housing: assembled structure made of sheet with a thickness of 1,5 mm and with cable housing for cables, terminal block or busbar system.



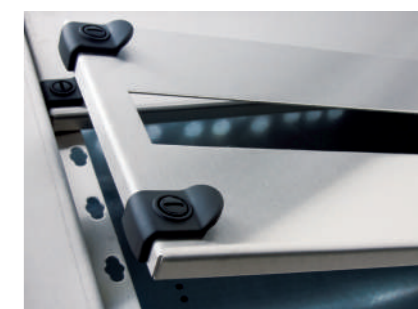
Cabinet with double cable housing: It is possible to place a double cable housing



Cable housing: assembled structure made of sheet with a thickness of 1,5 mm, which can be positioned near the cabinet



IP30 frame: it is possible to replace the glass door with the IP30 frame (open version).



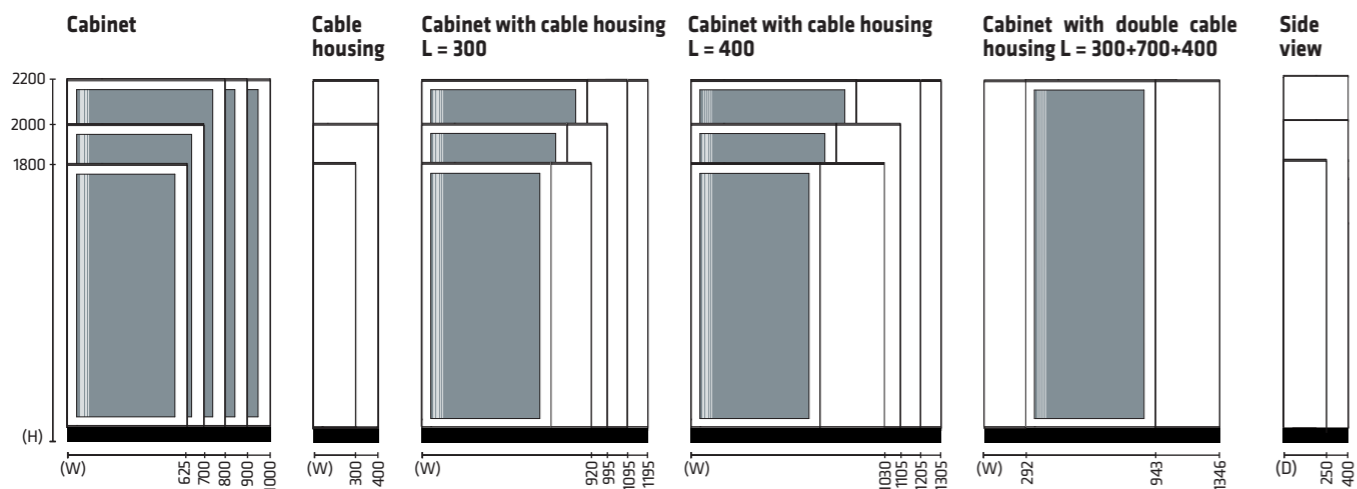
Inox: on request, stainless steel cabinet.



Technical specifications

	Width (W) m	Height (H) mm	Depth (D) mm	
Cabinet	625 (24 modules)	1800 / 2000 / 2200 (usable space = H - 200)	250 (usable space = 125) 400 (usable space = 218)	
	700 (24 modules)			
	800 (34 modules)			
	900 (36 modules)			
	1000 (46 modules)			
Cabinet with cable housing	625 + 300 (24 modules)			
	700 + 300 (24 modules)			
	800 + 300 (34 modules)			
	900 + 300 (36 modules)			
	625 + 400 (24 modules)			
	700 + 400 (24 modules)			
Cabinet with double cable housing	300 + 700 + 400 (24 modules)			
	Cable housing	300		
		400		
Electrical data	Voltage ratings	Rated insulation voltage (U _i)	690 V	
		Rated operational voltage (U _e)	400 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 630 A	
		Rated short-time withstand current for 1 sec. (I _{cw})	35 kA	
		Mechanical characteristics	IP degree of protection	Internal
	External enclosure			From IP30 to IP55
	Covers height (h)		150 / 200 / 300 / 400 / 500 / 600 / 700 / 800 / 900 / 1000	
	IK test (shock resistance)		IK09 glazed door	
IK10 blind door				
Access	From the front / Side / Rear			
Execution	Form 1 / Form 2a			
Material	Structure	Pickled plate, 15/10 mm thick		
	Accessories	Aluzinc® sheet steel, 15/10 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 cover. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines.



Certifications



Characteristics to be verified	Clause/Subclause	Design verification method	Test report n°
Degree protection of the assembly of enclosures	10.3	IP30	By test EPT16AVM033754359 EUROFINs
		IP55	By test B0011835 CESI
Mechanical impacts (IK)	10.2.6	IK9	By test EPT16AVM034154359 EUROFINs
		IK10	By test EPT16AVM033854359 EUROFINs
Temperature rise limits	10.10.4.2	Single-compartment assemblies with rated current not higher than 630 A	Verification by calculation according to the method of power losses
Clearances	10.4		By test Lafer quality control protocol
Creepage distances	10.4		By test Lafer quality control protocol
Verification of the short-circuit withstand of the protection circuit	10.5.3	Flat copper 60kA	- By test - By comparison with a reference design B0015061 CESI
		Flat aluminium 60 kA	- By test - By comparison with a reference design B6004584 CESI
Verification of the short-circuit withstand strength	10.11	Smart Energy 35 kA	- By test - By comparison with a reference design B3012744 CESI
		Smart Energy 70 kA	- By test - By comparison with a reference design B3013956 CESI
		Inclined flat copper busbar 16 kA	- By test - By comparison with a reference design MP-95_001169 CESI
Seismic test		0.7 g	By test B3020337 CESI
		1 g	By test B3020334 CESI



Constructive sections

1 Back panels



2 Rear frame



3 Side panels



4 Connections kit



5 Front panels



6 Doors



7 Uprights

8 Sockets

9 Bottom

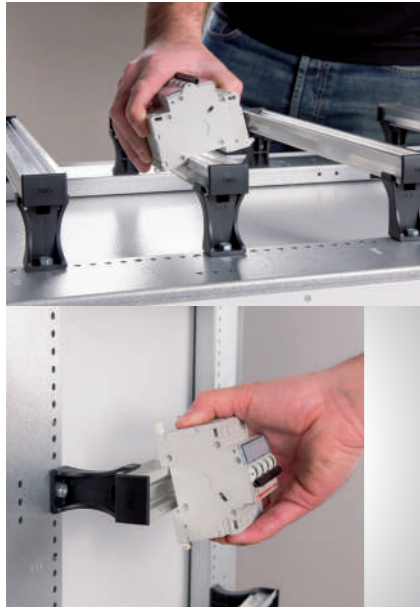


Easy panels are available as already **assembled panels**.

With Express delivery you receive your cabinet in a disassembled version in record time
All our products come with comprehensive instructions ensuring a straightforward assembly process!



Wiring modality



Wiring: possibility of horizontal and vertical wiring.



ModularDIN™ system: rapidity of assembly and disassembly of aluminium LDIN modular rails with the new joint system without screws. It is compatible with the most splitter blocks commercially available.



Cable ducting fastening: kit for fixing the cable ducting vertically and horizontally

Outer details



Glass door: made of sheet 1,5 mm thick with grey toughened glass.



Door disassembly: it is possible to remove the door easily by taking out the outer pin hinge.



Hinges and locks: an exclusive system developed by Lafer that enables a quick opening and closing of covers through screws by ¼ turn. All covers are reversible: it is possible to invert the locks with the hinges in few seconds.

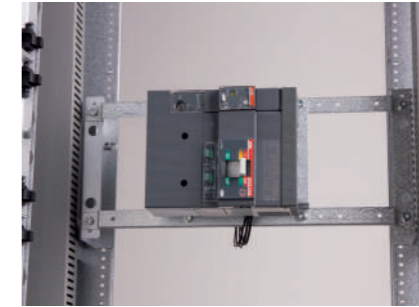


Holed covers: covers arranged with holes for devices and circuit breakers of any brand. According to the type of circuit breaker used, we supply a specific support kit.

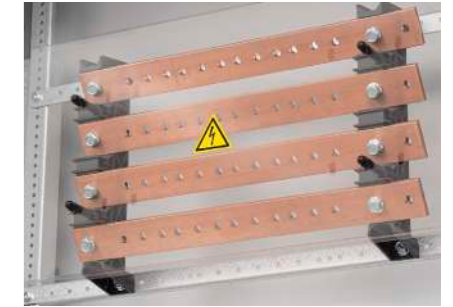
Inner details



Frontal part disassembly: rapidity of intervention for the maintenance.



Circuit breakers fastening: kit for fastening modular circuit breakers, disconnecting switches and moulded case circuit breakers of any brand.



Horizontal busbar system: busbar system up to 630 A.



Vertical busbar system: busbar system located in the cable housing L=300 and L=400 up to 630 A.



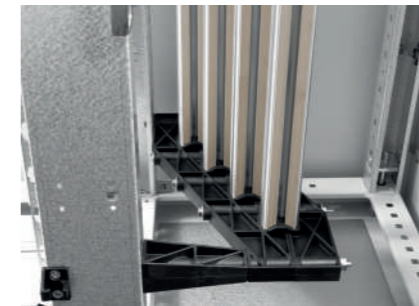
Vertical dividing panel: possibility of dividing the cabinet between circuit breakers space and cable housing.



Fixing bracket: terminal block cables and cable ducting



Sloping Smart-Energy: busbar system on cable housing W=300



Sloping Smart-Energy: busbar system on cable housing W=400



Smart-Energy lineare: sistema sbarre posizionato nella zona interruttori.canala.



LAFER GROUP S.P.A.

Via A. Santurro, 3 - 36040 Meledo di Sarego (Vicenza) Italy

T. +39 0444 490562 - lafer@lafer.com

www.lafer.com

