COMPACT PRO

Electrical cabinets for industrial and service sector up to 4000 A

LAFER
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Electrical cabinets for industrial and service sector up to 4000 A

(IP30 – IP55, from FORM 1 to FORM 2b).

The cabinet that maximizes performance in optimized spaces. Versatile and robust, it provides a fast cabling solution with a wide range of options.

Main characteristics:

- Assembled structure made of sheet with a thickness of 20/10 mm.
- Degree of protection from IP30 (open version) to IP55 with blind door or transparent door with toughened glass.
- 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).
- On request, stainless steel cabinet.
- Patented and certified earth connection system.
- Full range of internal finishing accessories to provide solutions for any requirement.

Typology

Complete front access

Complete side access

Vertical and horizontal busbar systems

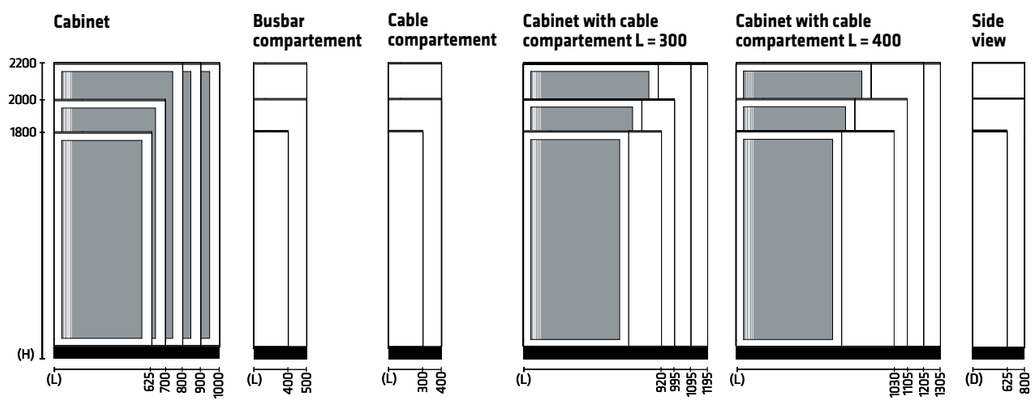
Support/door kit designed for any molded case circuit breaker

Inox: on request, stainless steel cabinet

Technical specifications

	Width (W) mm	**Height (H) mm**		**Depth (D) mm**
Cabinet	625 (24 modules)	1800 / 2000 / 2200 (usable space = H - 200)		625/800 (usable space = 218)
	700 (24 modules)			
	800 (34 modules)			
	900 (36 modules)			
	1000 (46 modules)			
Busbar compartment	300 (292)	1800 / 2000 / 2200		625/800
	400 (402)			
Cable compartement	400 (402)	1800 / 2000 / 2200 (usable space = H - 200)		625/800
	500 (452)			
Cabinet with cable compartement	625 + 300 (24 modules)	1800 / 2000 / 2200 (usable space = H - 200)		625/800 (usable space = 218)
	700 + 300 (24 modules)			
	800 + 300 (34 modules)			
	900 + 300 (36 modules)			
	625 + 400 (24 modules)			
	700 + 400 (24 modules)			
	800 + 400 (34 modules)			
	900 + 400 (36 modules)			
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 4000 A
		Rated short-time withstand current for 1 sec. (I_{cw})		105 kA
Mechanical characteristics	IP degree of protection	Internal	Up to IP2X	
		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		
	Execution	Form 1 / Form 2a / Form 2b		
	Material	Structure	Pickled plate, 15/10 - 20/10 mm thick	
		Accessories	Aluzinc® sheet steel, 15/10 - 20/10 - 25/10 mm	
	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/Subcaluse**		**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	
	10.10.4.3	Single-compartment assemblies with rated current not higher than 1600 A	Verification by CEI 17-43	
	Appendix of the norm (subclause 7.2 point 3)	Single or multiple compartment asseblies with rated current 1600 A<I_{na}<3150 A	By test CEI 17-43	08574-18-0807 02472-15-0378 IPH
	Appendix of the norm (subclause 7.2 point2)	Single or multiple compartment assemblies with rated current I_{na}>3150 A	Verification by derivation from a proven reference design	08574-18-0807 02472-15-0378 IPH
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 pro tection circuit	10.5.3	Flat copper 60 kA	- By test - By comparison with a reference design	B0015061 CESI
		Flat copper 90 kA	- By test - By comparison with a reference design	A6018747 CESI
		Extruded aluminium 60 kA	- By test - By comparison with a reference design	B7001848 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
		Flat copper 70 kA	- By test - By comparison with a reference design	B0015061 CESI
		Flat copper 80 kA	- By test - By comparison with a reference design	A6018748 CESI
		Smart Energy Plus Smart Energy Copper 75 KA	- By test - By comparison with a reference design	B8020497 CESI
		Smart Energy Copper 105 kA	- By test - By comparison with a reference design	B8020496 CESI
		Smart Energy Plus 105 kA	- By test - By comparison with a reference design	B6004584 CESI
		Smart Energy Plus 105 kA	- By test - By comparison with a reference design	B5002265 CESI
		Smart Energy Plus 105 kA	- By test - By comparison with a reference design	B7001848 CESI
Seismic test		0.7 g	By test	B3020329 CESI
		1 g	By test	B3020327 CESI

Constructive sections

1
New inclined 3-pole +
Neutral busbar holder

2
Front and side access

3
Busbar system compartment: front
access for maintenance and wiring

4
Incoming line compartment

CMPT-Pro series

Design and buy your Lafer panel online thanks to our free planning configurator Fast-One.

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of the CMPT-Pro series

Download the datasheet
of the CMPT-Pro series

Made in Italy

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