

SLIM

TECHNICAL
CATALOG





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Lafer Group
Simple ideas for great projects.



Electrical cabinets for industrial, civil and service sector up to 630 A

Cabinets designed to obtain the maximum accessibility both in wiring that in maintenance. Full modularity in the single cabinet divided by the cable compartment with the possibility of removing the front. Standardization of internal accessories with the series Quick, Easy and Compact thanks to the ModularDIN™ system that allows quick and precise mounting of modular switches.



Main characteristics

1

Mono-block structure made of sheet with a thickness of 15/10 mm

2

Epoxy powder coating after phosphating in RAL 7035 B (other colours on request)

3

Full range of internal finishing accessories to provide solutions for any requirement

4

Possibility of side connection

5

Frontal part completely removable

6

Degree of protection from IP30 (open version) to IP43 with blind door or transparent door with toughened glass.

7

Installation of circuit breakers of all leading manufacturers (ABB, Schneider, Siemens, etc.)

8

Patented and certified earth connection system



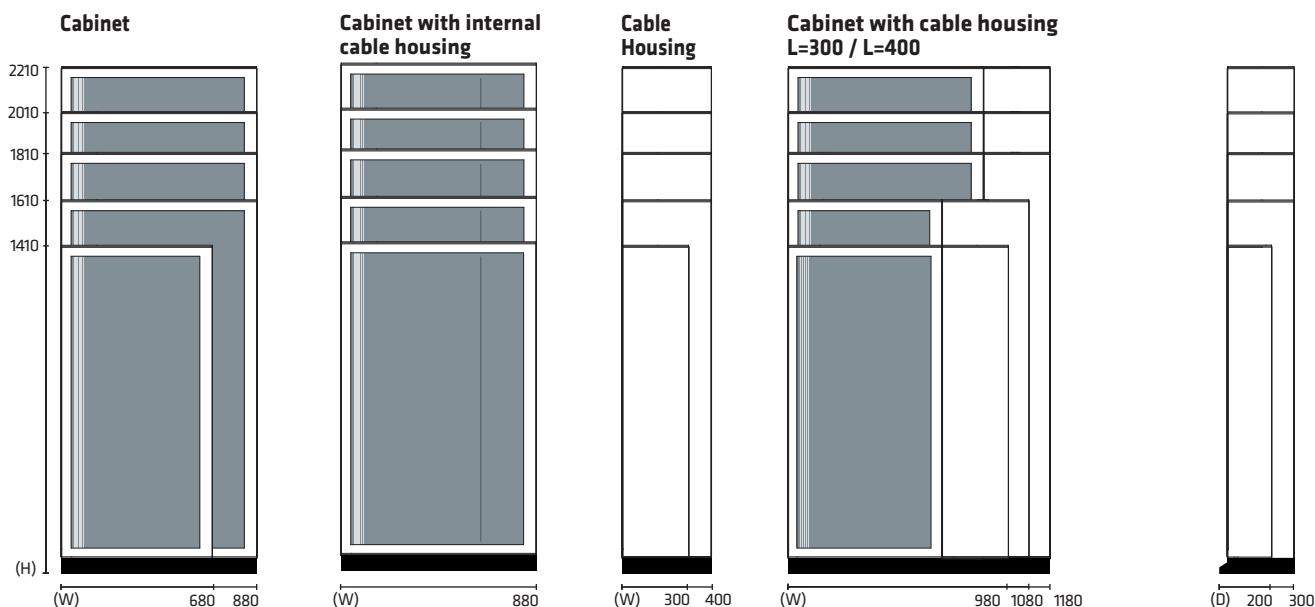
*On request, stainless steel cabinet

Series	Description	
QS	Single cabinet with glass door IP43	
QP	Single cabinet with glass door and internal cable compartment IP43	
QSG	Single cabinet with frame IP30	
QPG	Single cabinet with glass door and internal cable compartment IP30	
QSV	Cable compartment IP43	

Technical specifications

	Width (W) mm	Height (H) mm	Depth (D) mm	
Cabinet	680 (24 modules)			
	880 (36 modules)			
Cabinet with internal cable housing	880 (24 modules)			
Cabinet with cable housing	680 + 300 (24 modules)	1410 / 1610 / 1810 / 2010 / 2210 (usable space = H - 210)	200 (usable space = 125)	
	680 + 400 (24 modules)		300 (usable space = 218)	
	880 + 300 (36 modules)			
Cable housing	300			
	400			
Electrical data		Rated insulation voltage (U _i)	690 V	
	Voltage ratings	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})		25 kA		
Mechanical characteristics	IP degree of protection	Internal	Up to IP2X	
		External enclosure	From IP30 to IP43	
	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		
	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	
Mechanical impacts (IK)	10.2.6	IK9	By test	E 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 60 kA	- By test - By comparison with a reference design	B0015061 CESI
Verification of the short-circuit withstand strength	10.11	Inclined flat copper busbar 16 kA	- By test - By comparison with a reference design	MP-95_001169 CESI

Typology: some details



Cabinet

Mono-block structure made of welded sheet with a thickness 15/10mm.



Cabinet with cable housing

Structure made of welded sheets, uprights 15/10 mm thick, with side by side cable housing dedicated to cables, terminal block or busbar system



Frame IP30

It is possible to switch the glass door with the IP31 frame.



Cabinet with internal cable housing

Structure made of welded sheets, uprights 15/10 mm thick, with integrated cable housing dedicated to cables, terminal block or busbar system



Vano cavi

Mono-block structure made of welded sheet, 15/10 mm thick, wich can be sided with a cable house.

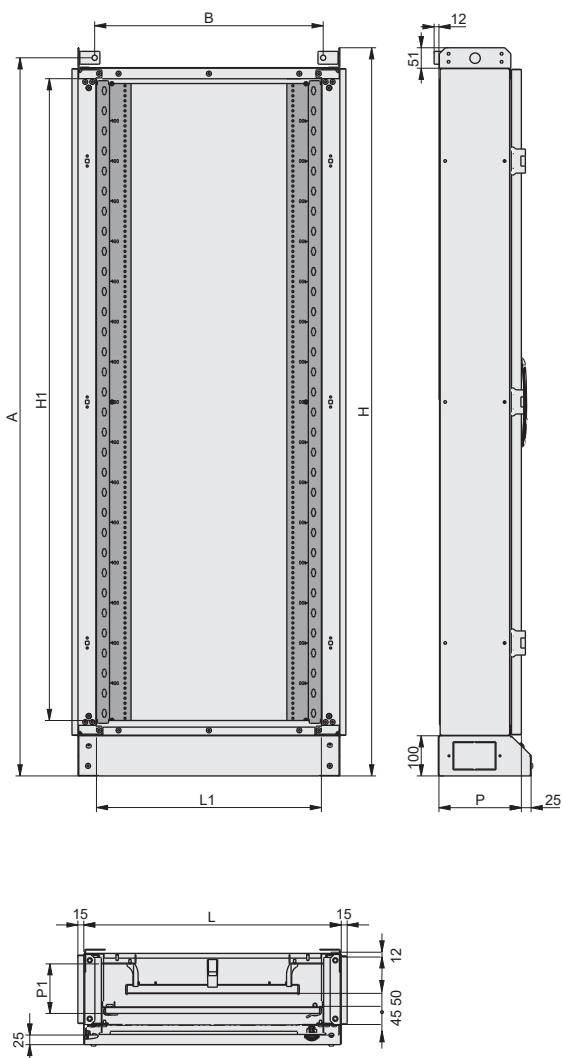


CABINETS
SLIM
SERIES

Series QS IP43

Basic cabinet composed of:

- mono-block structure
- frontal profiles with frames
- frame IP30
- lateral wiring profiles
- lifting brackets and wall fixing
- socket fall arrest

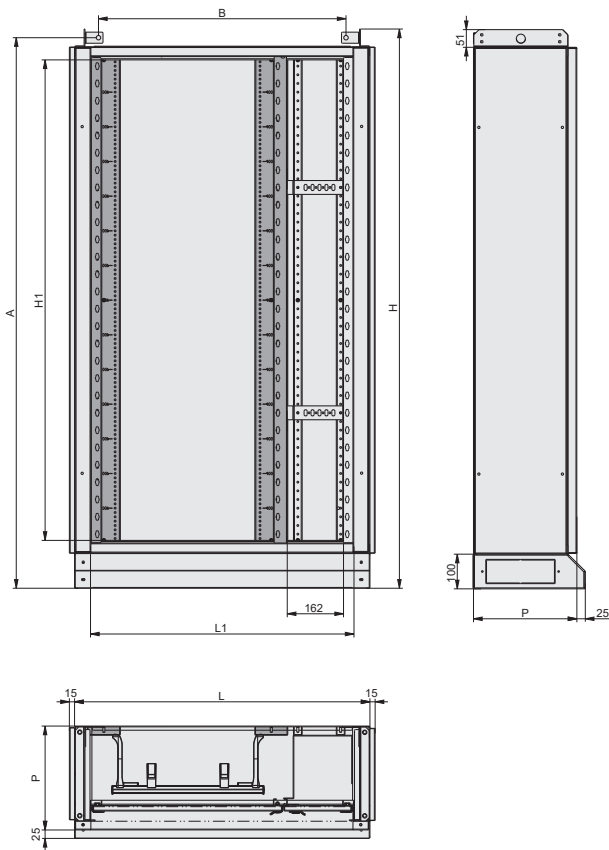


Code	L	H	P	L1	H1	P1	A	B	Modules
QS2714	652	1410	200	560	1210	125	1388	569	24
QS2716	652	1610	200	560	1410	125	1588	569	24
QS2718	652	1810	200	560	1610	125	1788	569	24
QS2720	652	2010	200	560	1810	125	1988	569	24
QS2722	652	2210	200	560	2010	125	2188	569	24
QS2914	852	1410	200	760	1210	125	1388	769	36
QS2916	852	1610	200	760	1410	125	1588	769	36
QS2918	852	1810	200	760	1610	125	1788	769	36
QS2920	852	2010	200	760	1810	125	1988	769	36
QS2922	852	2210	200	760	2010	125	2188	769	36
QS3714	652	1410	300	560	1210	218	1388	569	24
QS3716	652	1610	300	560	1410	218	1588	569	24
QS3718	652	1810	300	560	1610	218	1788	569	24
QS3720	652	2010	300	560	1810	218	1988	569	24
QS3722	652	2210	300	560	2010	218	2188	569	24
QS3914	852	1410	300	760	1210	218	1388	769	36
QS3916	852	1610	300	760	1410	218	1588	769	36
QS3918	852	1810	300	760	1610	218	1788	769	36
QS3920	852	2010	300	760	1810	218	1988	769	36
QS3922	852	2210	300	760	2010	218	2188	769	36

Series QP IP43

Basic cabinet composed of:

- mono-block structure
- frontal profiles with frames
- frame IP30
- internal cable compartment door
- lateral wiring profiles
- lifting brackets and wall fixing
- socket fall arrest

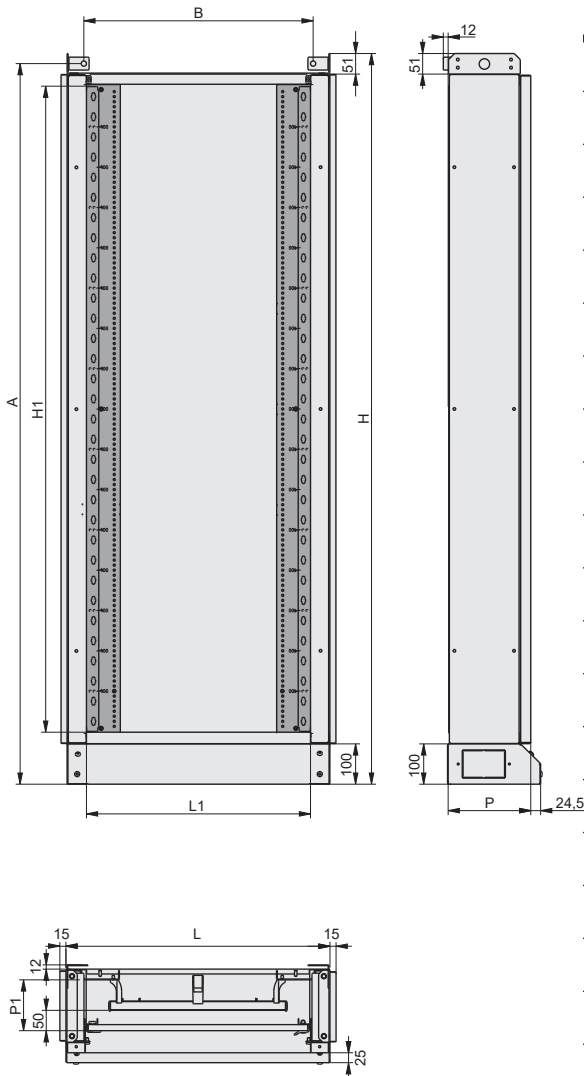


Code	L	H	P	L1	H1	P1	A	B	Modules
QP2914	852	1410	200	760	1210	125	1388	769	24
QP2916	852	1610	200	760	1410	125	1588	769	24
QP2918	852	1810	200	760	1610	125	1788	769	24
QP2920	852	2010	200	760	1810	125	1988	769	24
QP2922	852	2210	200	760	2010	125	2188	769	24
QP3914	852	1410	300	760	1210	218	1388	769	24
QP3916	852	1610	300	760	1410	218	1588	769	24
QP3918	852	1810	300	760	1610	218	1788	769	24
QP3920	852	2010	300	760	1810	218	1988	769	24

Series QSG IP30

Basic cabinet composed of:

- mono-block structure
- frontal profiles with frames
- frame IP30
- lateral wiring profiles
- lifting brackets and wall fixing
- socket fall arrest

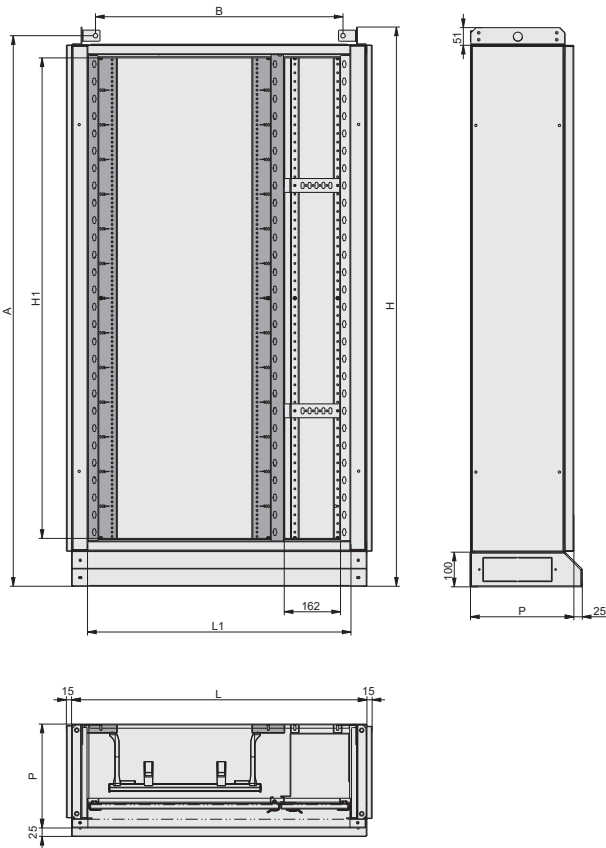


Code	L	H	P	L1	H1	P1	A	B	Modules
QSG2714	652	1410	200	560	1210	125	1388	569	24
QSG2716	652	1610	200	560	1410	125	1588	569	24
QSG2718	652	1810	200	560	1610	125	1788	569	24
QSG2720	652	2010	200	560	1810	125	1988	569	24
QSG2722	652	2210	200	560	2010	125	2188	569	24
QSG2914	852	1410	200	760	1210	125	1388	769	36
QSG2916	852	1610	200	760	1410	125	1588	769	36
QSG2918	852	1810	200	760	1610	125	1788	769	36
QSG2920	852	2010	200	760	1810	125	1988	769	36
QSG2922	852	2210	200	760	2010	125	2188	769	36
QSG3714	652	1410	300	560	1210	218	1388	569	24
QSG3716	652	1610	300	560	1410	218	1588	569	24
QSG3718	652	1810	300	560	1610	218	1788	569	24
QSG3720	652	2010	300	560	1810	218	1988	569	24
QSG3722	652	2210	300	560	2010	218	2188	569	24
QSG3914	852	1410	300	760	1210	218	1388	769	36
QSG3916	852	1610	300	760	1410	218	1588	769	36
QSG3918	852	1810	300	760	1610	218	1788	769	36
QSG3920	852	2010	300	760	1810	218	1988	769	36
QSG3922	852	2210	300	760	2010	218	2188	769	36

Series QPG IP30

Basic cabinet composed of:

- mono-block structure
- frontal profiles with frames
- frame IP30
- internal cable compartment door
- lateral wiring profiles
- lifting brackets and wall fixing
- socket fall arrest

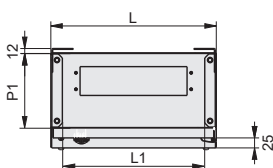
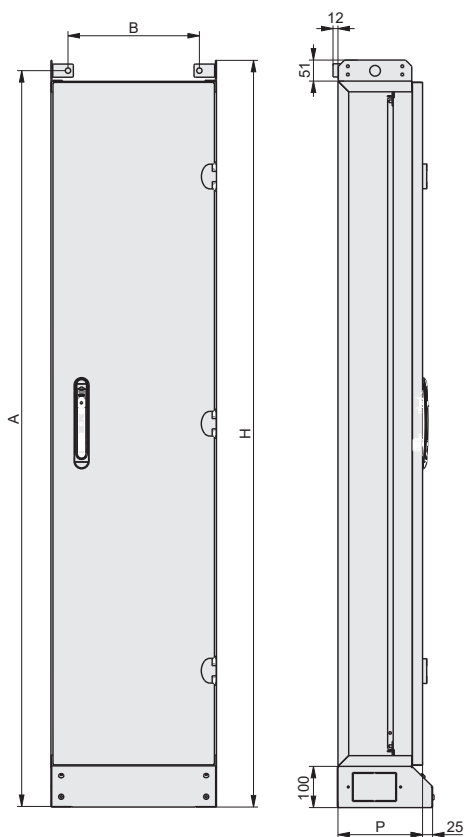


Code	L	H	P	L1	H1	P1	A	B	Modules
QPG2914	852	1410	200	760	1210	125	1388	769	24
QPG2916	852	1610	200	760	1410	125	1588	769	24
QPG2918	852	1810	200	760	1610	125	1788	769	24
QPG2920	852	2010	200	760	1810	125	1988	769	24
QPG2922	852	2210	200	760	2010	125	2188	769	24
QPG3914	852	1410	300	760	1210	218	1388	769	24
QPG3916	852	1610	300	760	1410	218	1588	769	24
QPG3918	852	1810	300	760	1610	218	1788	769	24
QPG3920	852	2010	300	760	1810	218	1988	769	24
QPG3922	852	2210	300	760	2010	218	2188	769	24

Series QSV IP43

Basic cabinet composed of:

- mono-block structure
- frontal profiles
- lateral wiring profiles
- lifting brackets and wall fixing
- socket fall arrest



Code	L	H	P	L1	H1	P1	A	B
QSV2214	292	1410	200	210	1210	180	1388	219
QSV2216	292	1610	200	210	1410	180	1588	219
QSV2218	292	1810	200	210	1610	180	1788	219
QSV2220	292	2010	200	210	1810	180	1988	219
QSV2222	292	2210	200	210	2010	180	2188	219
QSV2414	402	1410	200	310	1210	180	1388	319
QSV2416	402	1610	200	310	1410	180	1588	319
QSV2418	402	1810	200	310	1610	180	1788	319
QSV2420	402	2010	200	310	1810	180	1988	319
QSV2422	402	2210	200	310	2010	180	2188	319

The background features a dark grey, almost black, field filled with a complex pattern of glowing white lines and particles. These lines form a series of undulating, wave-like patterns that flow across the frame. The particles are small, bright white dots scattered throughout, some appearing to trail behind the lines, creating a sense of motion and depth. The overall effect is reminiscent of a digital data stream or a futuristic, high-tech environment.

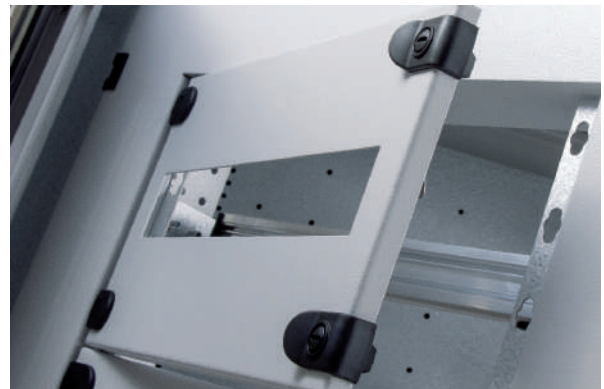
SLIM
CABINETS
ACCESSORIES

Blinds hinged panels



Code	Description	(l x h)
1371	blank panel w=700 h=100	544 x 98
13715	blank panel w=700 h=150	544 x 148
1372	blank panel w=700 h=200	544 x 198
1373	blank panel w=700 h=300	544 x 298
1374	blank panel w=700 h=400	544 x 398
1375	blank panel w=700 h=500	544 x 498
1376	blank panel w=700 h=600	544 x 598
1377	pannellocieco w=700 h=700	544 x 698
1378	blank panel w=700 h=800	544 x 798
1379	blank panel w=700 h=900	544 x 898
13710	pannellocieco w=700 h=1000	544 x 998
1391	pannellocieco w=900 h=100	744 x 98
13915	blank panel w=900 h=150	744 x 148
1392	blank panel w=900 h=200	744 x 198
1393	blank panel w=900 h=300	744 x 298
1394	blank panel w=900 h=400	744 x 398
1395	blank panel w=900 h=500	744 x 498
1396	pannellocieco w=900 h=600	744 x 598
1397	blank panel w=900 h=700	744 x 698
1398	pannellocieco w=900 h=800	744 x 798
1399	blank panel w=900 h=900	744 x 898
13910	blank panel w=900 h=1000	744 x 998

Modular hinged panels



Code	Description	(w x h)	Modules
M17	modular panel w=700 h=150	544 x 148	24
M07	modular panel w=700 h=200	544 x 198	24
M37	modular panel w=700 h=300	544 x 298	24
M27	modular panel w=700 h=400	544 x 398	48
130706	modular panel w=700 h=600	544 x 598	72
M19	modular panel w=900 h=150	744 x 148	36
M09	modular panel w=900 h=200	744 x 198	36
M39	modular panel w=900 h=300	744 x 298	36
M29	modular panel w=900 h=400	744 x 398	72
130906	modular panel w=900 h=600	744 x 598	108

Hinged panel with personalized puncture



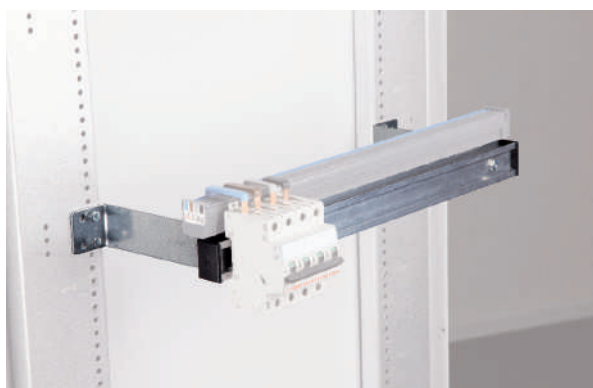
Code	Description
250	personalized puncture for tools
256	personalized puncture Hinged panel

Side closure panels



Code	Description	(w x h)
PL2014	pair of lateral panels d=200 h=1400	173 x 1260
PL2016	pair of lateral panels d=200 h=1600	173 x 1460
PL2018	pair of lateral panels d=200 h=1800	173 x 1660
PL2020	pair of lateral panels d=200 h=2000	173 x 1860
PL2022	pair of lateral panels d=200 h=2200	173 x 2060
PL3014	pair of lateral panels d=300 h=1400	266 x 1260
PL3016	pair of lateral panels d=300 h=1600	266 x 1460
PL3018	pair of lateral panels d=300 h=1800	266 x 1660
PL3020	pair of lateral panels d=300 h=2000	266 x 1860
PL3022	pair of lateral panels d=300 h=2200	266 x 2060

Kit for MCB unifix system



Code	Description	Modules
T7/U	support kit d=125 w=700 cab. d=200 unifix system	24
T9/U	support kit d=125 w=900 cab. d=200 unifix system	36
W7/U	support kit d=218 w=700 cab. d=300 unifix system	24
W9/U	support kit d=218 w=900 cab. d=300 unifix system	36

Multiclip system



Code	Description	Modules
T7	support kit d=125 w=700 cab. d=200	24
T9	support kit d=125 w=900 cab. d=200	36
W7/2	support kit d=218 w=700 cab. d=300	24

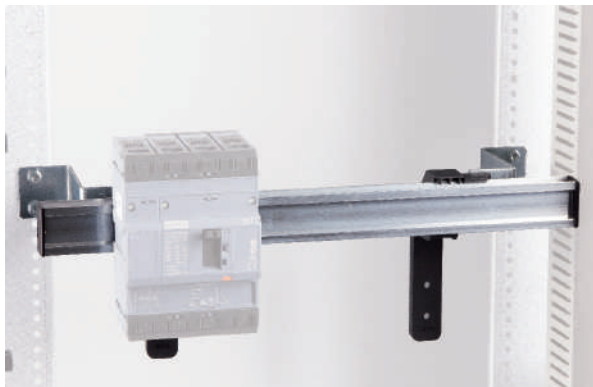
W9/2	support kit d=218 w=900 cab. d=300	36
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Tifast system



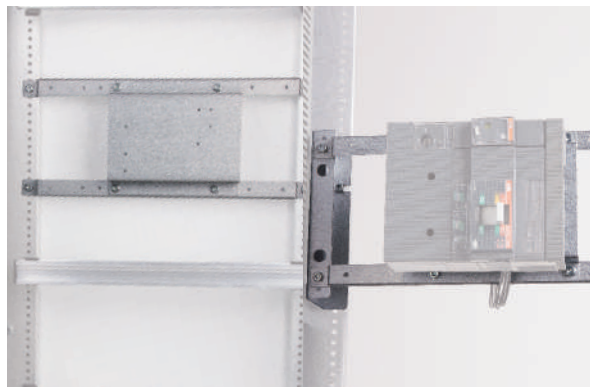
Code	Description
T/T	Kit Tifast p=125
W/T	Kit Tifast p=218

Kit for modular MCCB system



Code	Description
T7/125	support kit for ABB switch d=12 w=700 cab. d=200
T9/125	support kit for ABB switch d=125 w=900 cab. d=200
T7/160	support kit for Schneider, siemens-bticino switches d=125 w= 700 cab. d=200
T9/160	support kit for Schneider, siemens-bticino switches d=125 w=900 cab. d=200
W7/125	support kit for ABB switch d=218 w=700 cab. d=300
W9/125	support kit for ABB switch d=218 w=900 cab. d=300
W7/160	support kit for Schneider, siemens-bticino switches d=218 w=700 cab. d=300
W9/160	support kit for Schneider, siemens-bticino switches d=218 w=900 cab. d=300

Kit for MCCB



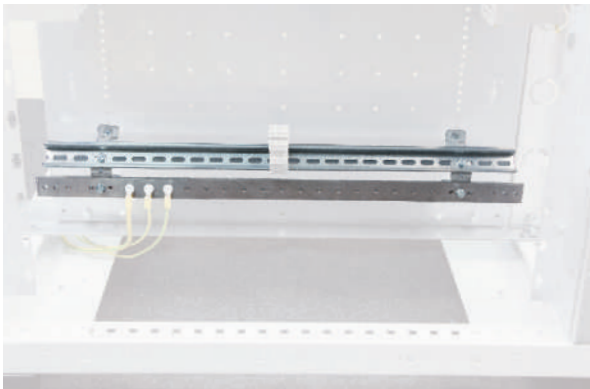
*For the complete list of boxed kits, see the
dedicated technical catalogue.

Shutters for modular panels



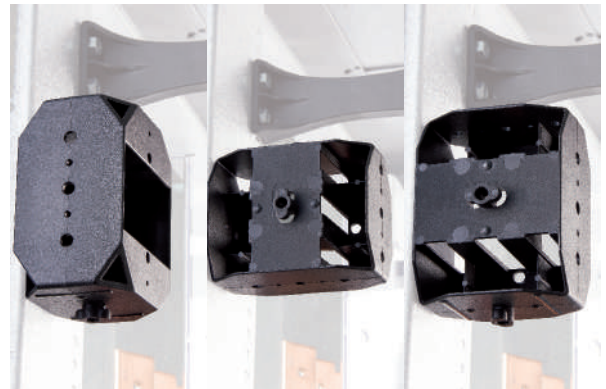
Code	Description
F2000	shutter for modular panels w=2000

Kit for horizontal terminal



Code	Description
A107	support kit for terminal board w=700
A109	support kit for terminal board w=900
A107/PE16	support kit for terminal board w=700 with PE 16 kA
A107/PE20	support kit for terminal board w=700 with PE 20 kA
A109/PE16	support kit for terminal board w=900 with PE 16 kA
A109/PE20	support kit for terminal board w=900 with PE 20 kA

Support for vertical duct



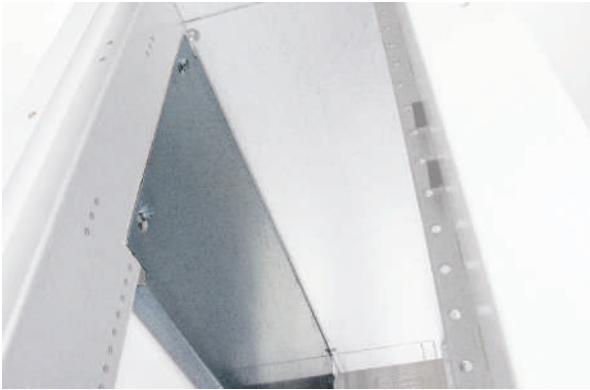
Code	Description
DCV	support for vertical cable duct 3 heights h=53-73-93

Tool for ModularDIN™ system



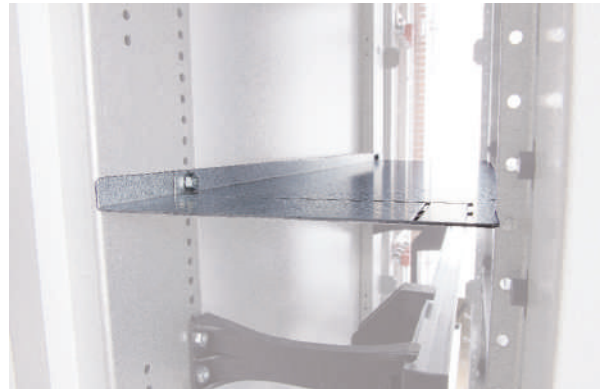
Code	Description
UG	tools for LDIN guide

Modular plates for equipment mounting



Code	Description	(l x h)
T/731	modular plate w=700 h=100	442 x 98
T/732	modular plate w=700 h=200	442 x 198
T/733	modular plate w=700 h=300	442 x 298
T/734	modular plate w=700 h=400	442 x 398
T/931	modular plate w=900 h=100	642 x 98
T/932	modular plate w=900 h=200	642 x 198
T/933	modular plate w=900 h=300	642 x 298
T/934	modular plate w=900 h=400	642 x 398

Horizontal separator



Code	Description
SS0720	horizontal separator w=700 d=200
SS0920	horizontal separator w=900 d=200
SS0730	horizontal separator w=700 d=300
SS0930	horizontal separator w=900 d=300

Vertical separator made of polycarbonate form 2b



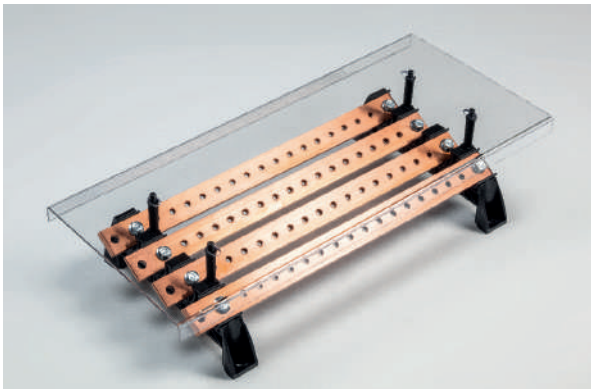
Code	Description
STS212	polycarbonate side closure kit form. 2b d=200 h=1200
STS214	polycarbonate side closure kit form. 2b d=200 h=1400
STS216	polycarbonate side closure kit form. 2b d=200 h=1600
STS218	polycarbonate side closure kit form. 2b d=200 h=1800
STS220	polycarbonate side closure kit form. 2b d=200 h=2000
STS312	polycarbonate side closure kit form. 2b d=300 h=1200
STS314	polycarbonate side closure kit form. 2b d=300 h=1400
STS316	polycarbonate side closure kit form. 2b d=300 h=1600
STS318	polycarbonate side closure kit form. 2b d=300 h=1800
STS320	polycarbonate side closure kit form. 2b d=300 h=2000

Brackets for terminal mounting, cables and cable duct



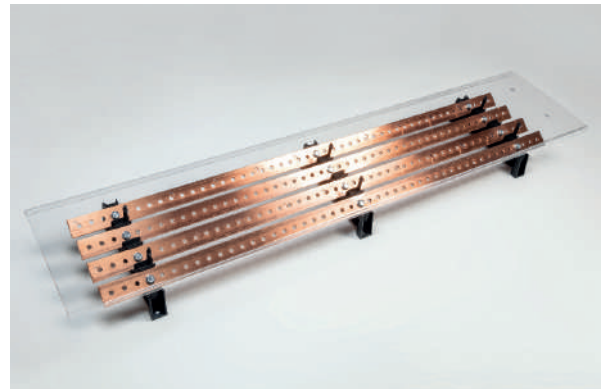
Code	Description
SM2020	bracket for terminal board fixing, cables and duct w=200 d=200
SM4020	bracket for terminal board fixing, cables and duct w=400 d=200
SM2030	bracket for terminal board fixing, cables and duct w=200 d=300
SM4030	bracket for terminal board fixing, cables and duct w=400 d=300
SM2020P	bracket for terminal board fixing, cables and duct w=200 d=200 plus
SM2030P	bracket for terminal board fixing, cables and duct w=200 d=300 plus

Horizontal busbar system



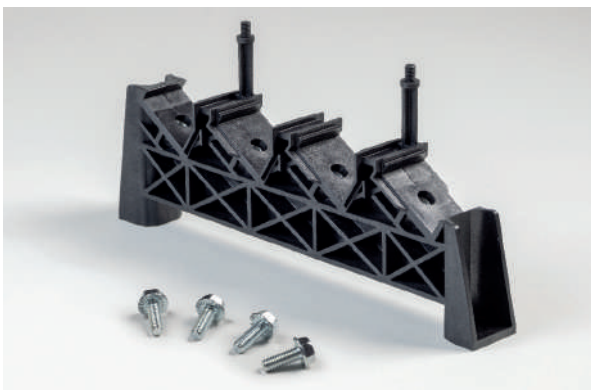
Codice	Descrizione
RH2507/I	horizontal busbar system w=700 250 A
RH2509/I	horizontal busbar system w=900 250 A
RH4007/I	horizontal busbar system w=700 400 A
RH4009/I	horizontal busbar system w=900 400 A
RH6307/I	horizontal busbar system w=700 630 A
RH6309/I	horizontal busbar system w=900 630 A

Vertical busbar system



Codice	Descrizione
RV2512/I	vertical busbar system w=1200 250 A
RV2516/I	vertical busbar system w=1600 250 A
RV4012/I	vertical busbar system w=1200 400 A
RV4016/I	vertical busbar system w=1600 400 A
RV6312/I	vertical busbar system w=1200 630 A
RV6316/I	vertical busbar system w=1600 630 A

Inclined supports with insulators



Code	Description
IS/2	inclined support with insulators 250 A
IS/6	inclined support with insulators 400/630 A

Pocket carry schemas



Code	Description (p x l x h)
2/2000	big pocket carry schemas 30 x 230 x 220

Lock with swing handle



Code	Description
6/5850	swing handle, push-button (standard)
6/5870	swing handle, key
6/5860	swing handle triangle 8 mm
6/5880	swing handle, double bit 3 mm

Technical videos for slim series

assembly and disassembly
of LDIN rail



assembly of supports
for moulded case circuit
breaker depth 125



horizontal disassembly
of the front part



assembly of the
modular panel



vertical disassembly
of the front part



assembly of the
ModularDIN™ for moulded
case circuit breaker
depth 218



assembly of the horizontal
terminal block depth 125



assembly of the support
for vertical cable ducting



assembly of the
ModularDIN™ depth 218



assembly of the vertical
bus-bar system inside
cable housing



assembly of the
ModularDIN™ depth 125



assembly of the horizontal
bus-bar system





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

