

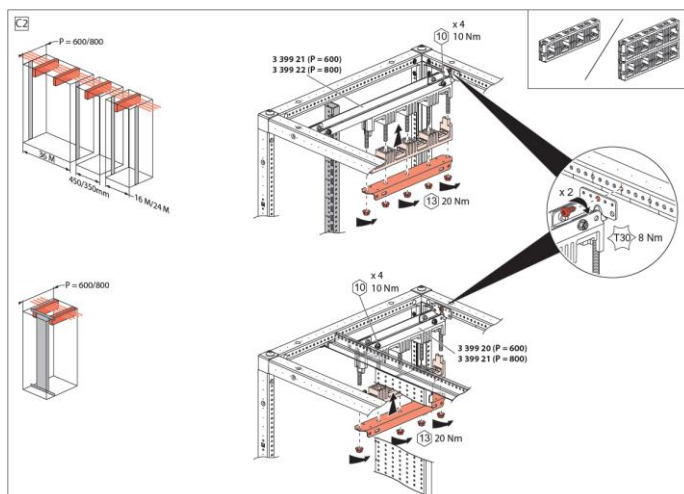
XL³ S busbar system

for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58



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1. OVERALL DESCRIPTION

The XL³ S range of enclosure is provided with a complete range of busbar system which are able to apply electric connection made by **copper busbar** or **aluminum "c-shape" busbar**.

The solution allow the correct choice following the intensity needed and the correct level of short circuit of the installation.

The bars are provided with different shapes in order to guarantee **high performances** and a **wide applicability** with all distribution enclosures up to XL³ S 4000: for each type of bar of VX³ system there is a specific support designed in order to be **easier and ready to use**. The system is also equipped with **insulating supports** that hold the bars in the right position according to predefined axle in all XL³ S enclosures.

Aluminum bars can be also cut to **obtain the required length** to be easily used for all installation requirements.

Attention: during the cut of the aluminum bars to the required length, **take care not to damage the surface treatment**.

VX³ system include a **complete range** of accessories to facilitate the installation and to assure **safety** and **performances**.

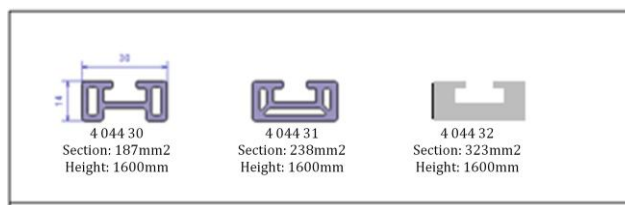
2. PRODUCT RANGE

2.1 VX³ aluminum bars range

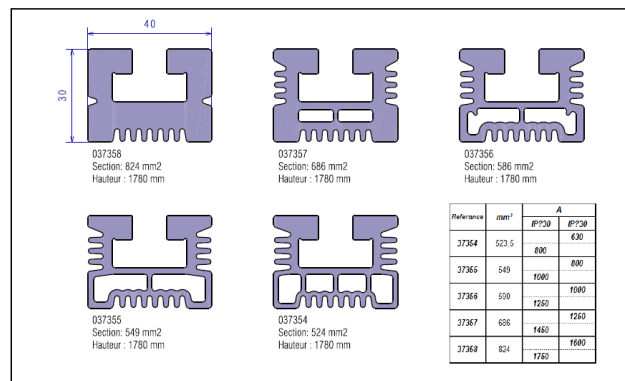
Aluminum bars range is divided in two different shapes: small bars and big bars.

All the bars are made with a "c-shape" design in order to simplify the connection of cables and bars without any needs of drilling the bar, giving the possibility to choose the position in the full length of the bar.

The small bars are for intensity **up to 630 A**.



The bigger bars are for intensity **up to 1600 A**.



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2.2 Busbar support

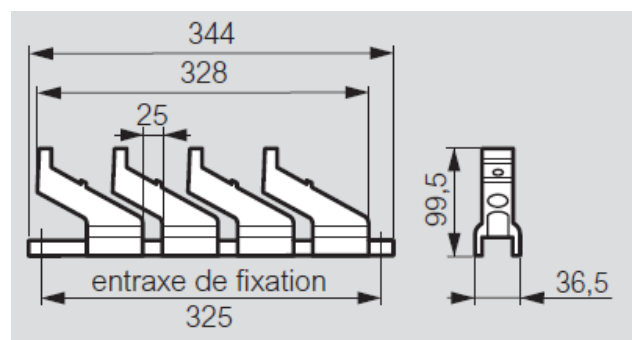
The range of supports allow the installation of different kind of bars in the enclosures of XL³ S range.

Cat. No	Type	Accessory	Bar	Enclosure
3 399 00	Diagonal		Flat copper 400A	XL ³ S 630
3 399 01	Linear		Flat copper 400A	XL ³ S 630
3 399 02	Diagonal		4 044 30÷32	XL ³ S 630
3 399 03	Diagonal		4 044 30÷32	XL ³ S 630
3 399 04	Linear		4 044 30÷32	XL ³ S 630
3 399 05	Linear		4 044 30÷32	XL ³ S 630
3 399 06	Linear		4 044 30÷32	XL ³ S 630
3 399 20	Linear 75mm	3 399 40	Alu 0 373 54÷58	XL ³ S 4000 (450 mm depth)
		3 399 36	Flat copper 50x5÷63x5	
		3 399 37	Flat copper 75x5÷125x5	
		3 399 38	Flat copper 50x10÷60x10	
		3 399 39	Flat copper 80x10÷120x10	
3 399 21	Linear 75mm	3 399 40	Alu 0 373 54÷58	XL ³ S 4000 (600 mm depth)
		3 399 36	Flat copper 50x5÷63x5	
		3 399 37	Flat copper 75x5÷125x5	
		3 399 38	Flat copper 50x10÷60x10	
		3 399 39	Flat copper 80x10÷120x10	
3 399 22	Linear 75mm	3 399 40	Alu 0 373 54÷58	XL ³ S 4000 (800 mm depth)
		3 399 36	Flat copper 50x5÷63x5	
		3 399 37	Flat copper 75x5÷125x5	
		3 399 38	Flat copper 50x10÷60x10	
		3 399 39	Flat copper 80x10÷120x10	
3 399 23	Linear 75mm	3 399 40	Alu 0 373 54÷58	XL ³ S 4000 (not fixed on frame)
		3 399 36	Flat copper 50x5÷63x5	
		3 399 37	Flat copper 75x5÷125x5	
		3 399 38	Flat copper 50x10÷60x10	
		3 399 39	Flat copper 80x10÷120x10	
3 399 25	Linear 125mm		Alu 0 373 54÷58	XL ³ S 4000 (600 mm depth)
3 399 26	Linear 125mm		Alu 0 373 54÷58	XL ³ S 4000 (800 mm depth)
3 399 27	Linear 125mm		Alu 0 373 54÷58	XL ³ S 4000 (not fixed on frame)

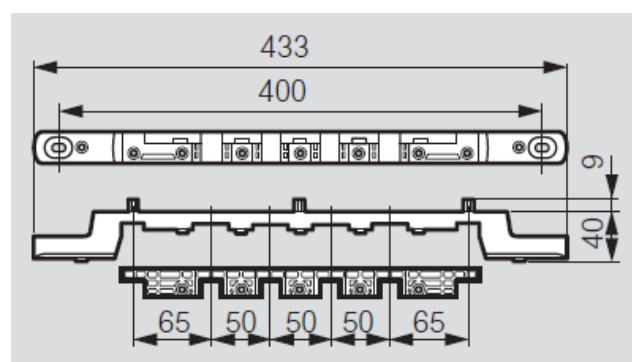
3 399 29	Linear 125mm		Flat copper Up to 160x10	XL ³ S 4000 (800mm depth)
3 399 30	Linear 125mm		Flat copper Up to 160x10	XL ³ S 4000 (not fixed on frame)
3 399 31	Diagonal 125mm		Alu 0 373 54÷58	XL ³ S 4000 (450 mm depth)
3 399 32	Diagonal 125mm		Alu 0 373 54÷58	XL ³ S 4000 (600 mm depth)
3 399 33	Diagonal 125mm		Alu 0 373 54÷58	XL ³ S 4000 (800 mm depth)

3. DIMENSIONS

3 399 00



3 399 01



XL³ S busbar system

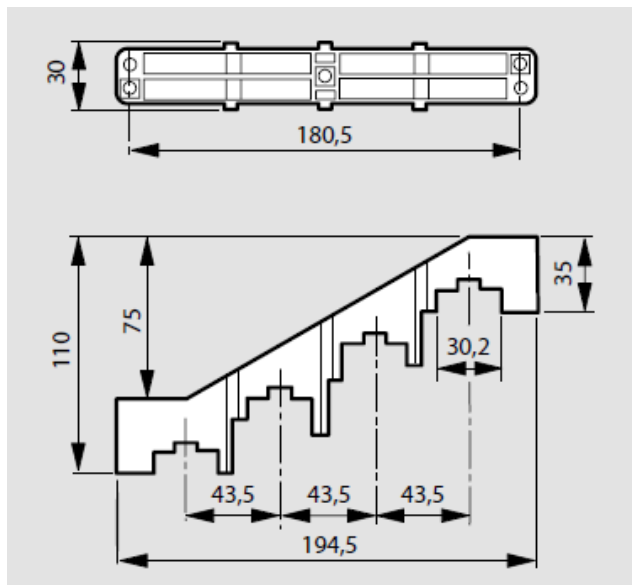
for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

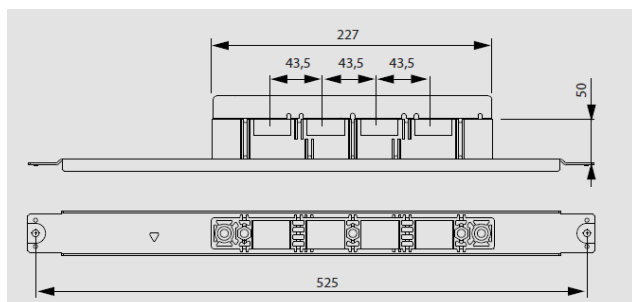
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

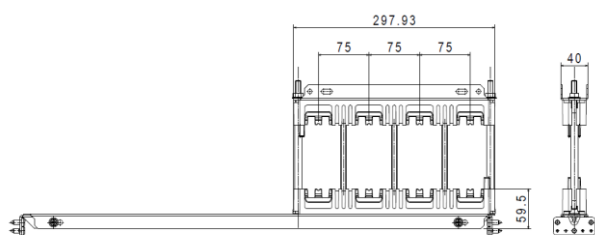
3 399 02/03



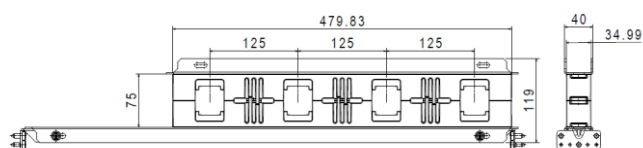
3 399 04/05



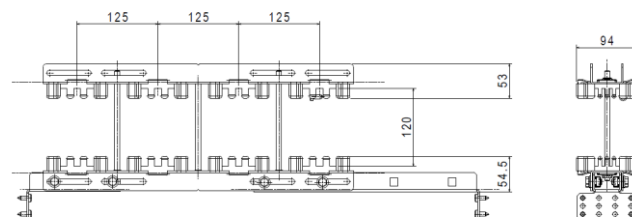
3 399 20/21/22/23



3 399 25/26/27

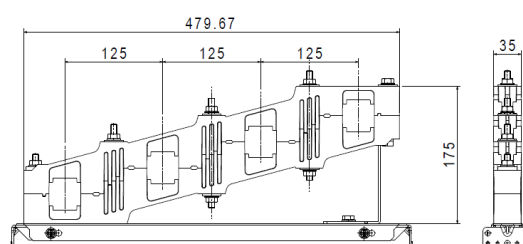


3 399 29/30



(example for a 120x10mm bar)

3 399 31/32/33



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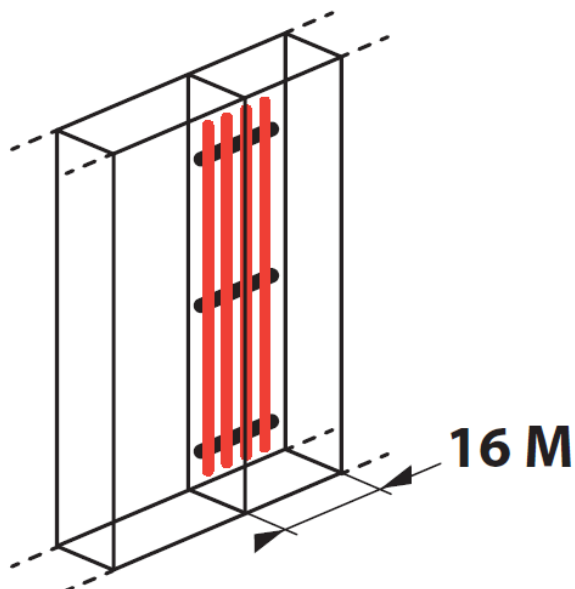
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

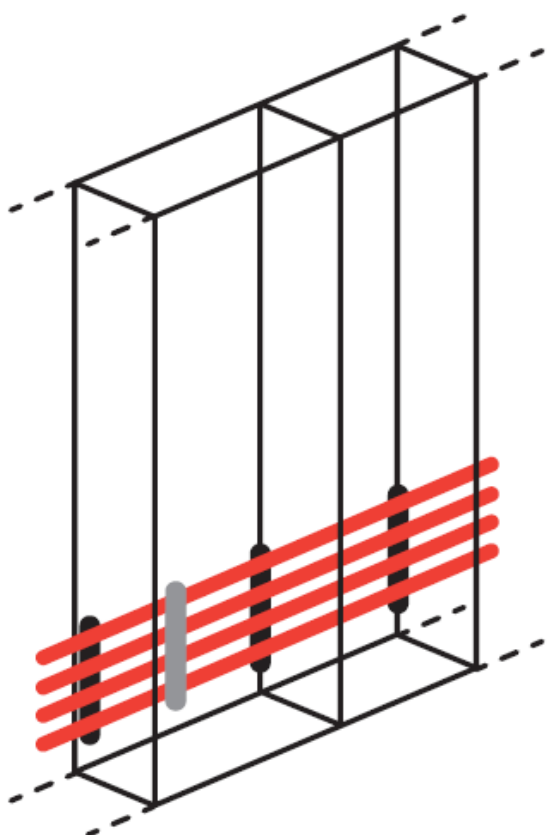
4. INSTALLATION POSSIBILITIES

4.1 3 399 00

They can be installed as vertical busbar in cable sleeve in XL³ S 630.

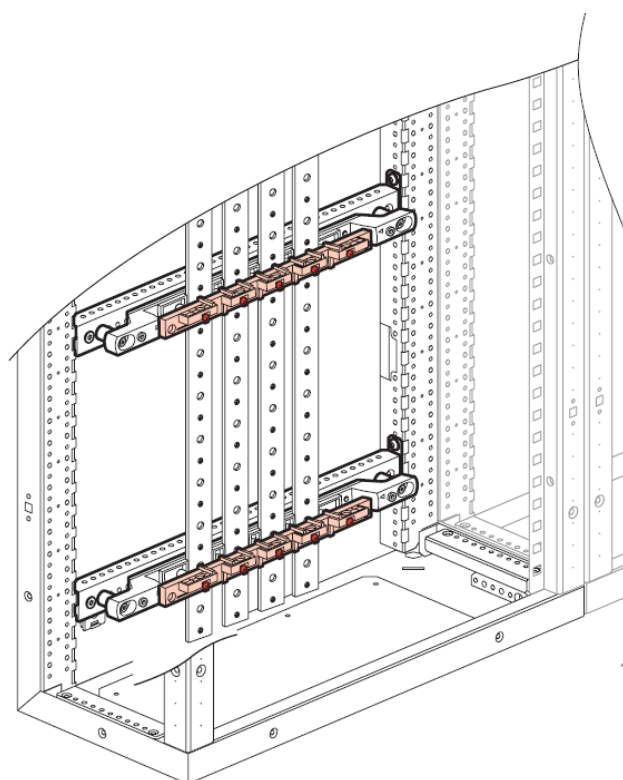
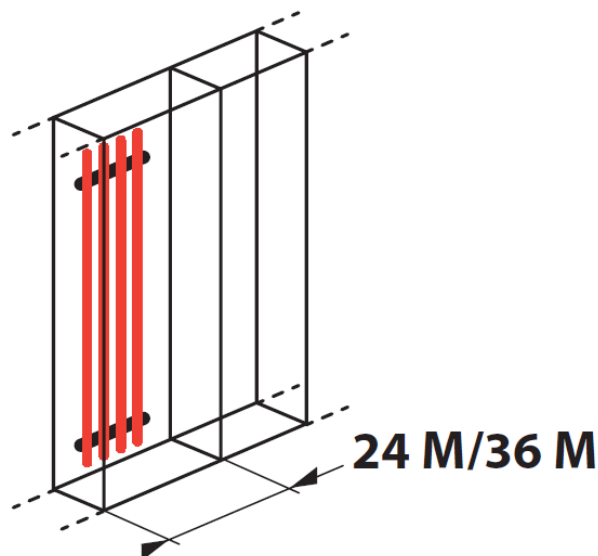


Or as horizontal busbar when more enclosures are placed side by side.



4.2 3 399 01

They are installed as vertical busbar in XL³ S 630 enclosure, fixed on the back of the enclosure with a width of 24 M or 36 M.



XL³ S busbar system

for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

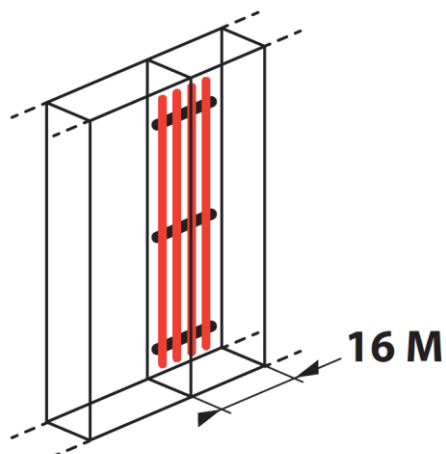
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

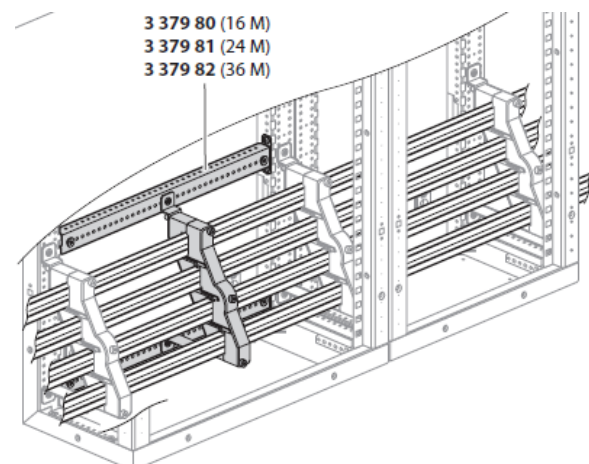
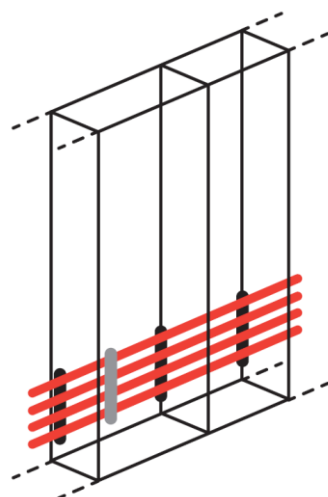
4.3 3 399 02/03

These busbars can be used as vertical distribution installed in XL³ S 630, in 16 M enclosures or as transfer busbar in case of a multi-column panelboard.

Vertical installation:

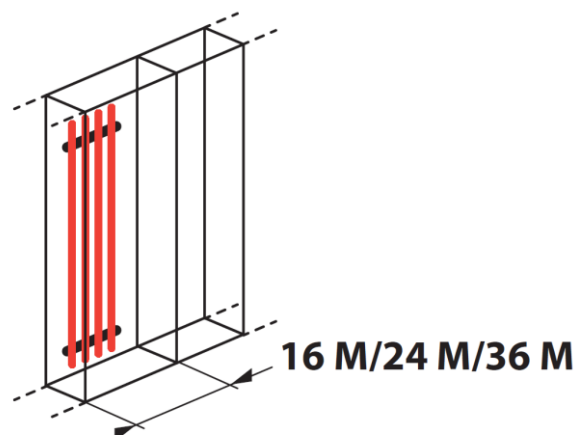


Horizontal installation



4.4 3 399 04/05

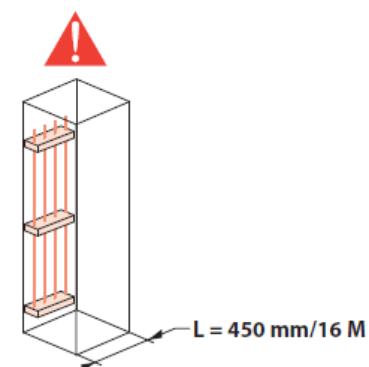
These busbars can be installed in vertical position, in the back part of XL³ S 630 enclosure or in 16 M, 24 M and 36 M enclosures.



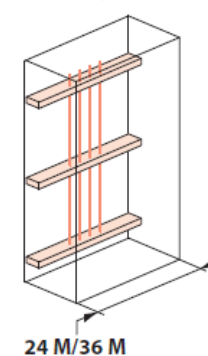
4.5 3 399 20/21/22/25/26/27

They can be installed in the back part of the enclosure.

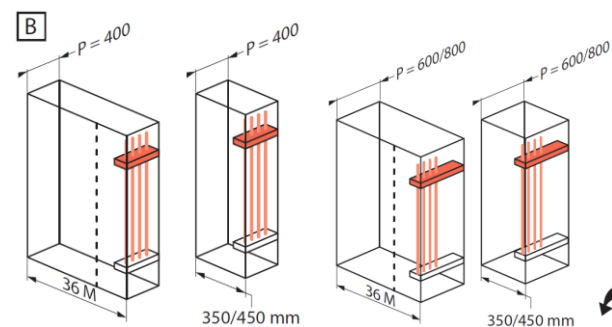
3 399 20



3 399 21 / 22



They can be installed in vertical position, in the sense of depth, for the full depth of the enclosure



XL³ S busbar system

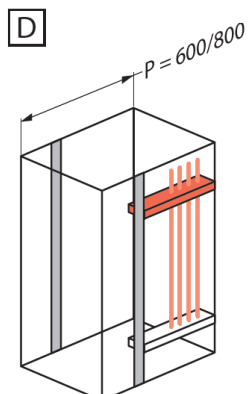
for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

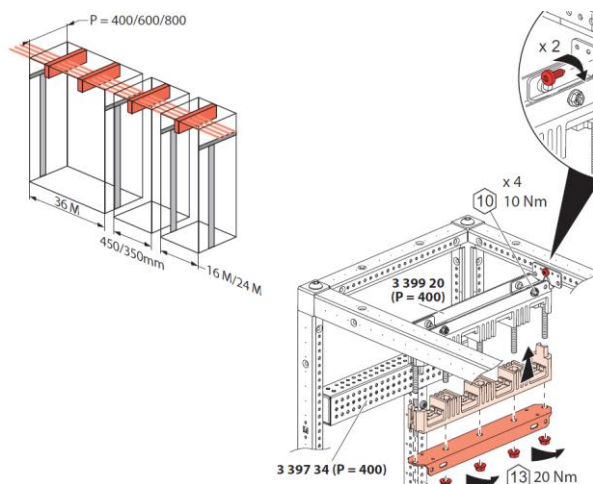
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

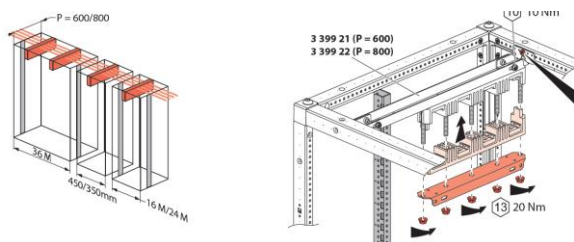
They can be installed in vertical position, in the sense of depth, behind the installation upright.



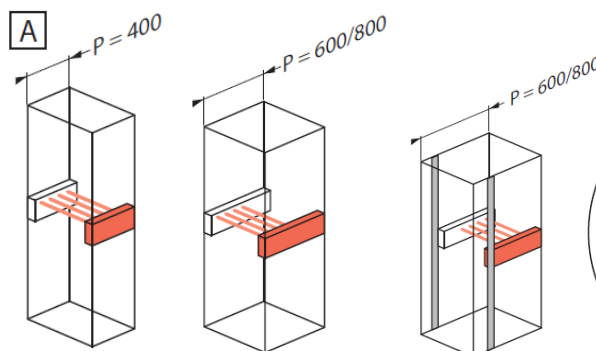
They also can be used as transfer busbar, in different configurations
At full depth of the enclosure, in the top or in the bottom:



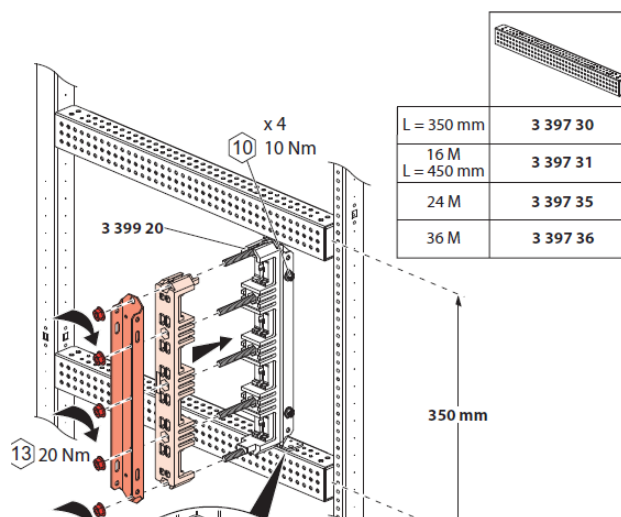
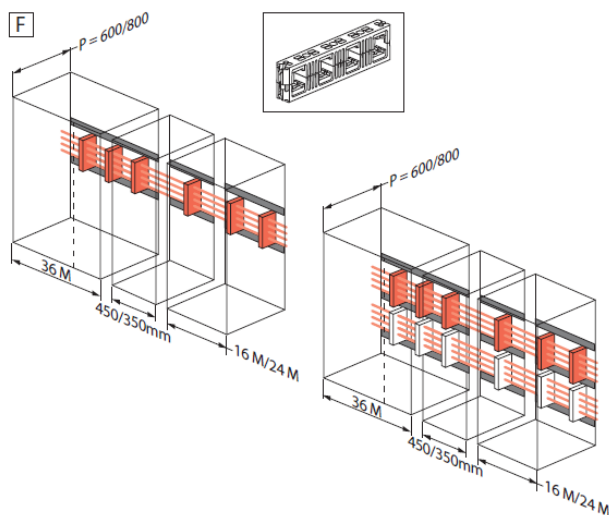
Behind the functional upright:



or in the middle, full depth or behind the functional upright:



They can also be installed in the back of the enclosure, with the help of crosspieces



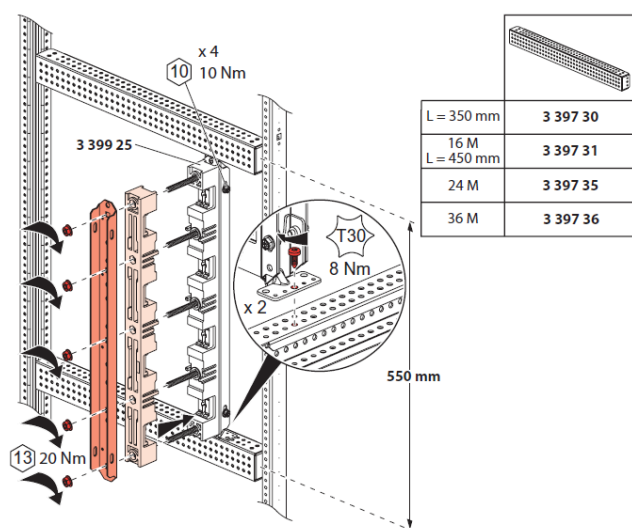
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Cat. No(s): 3 399 00/01/02/03/04/05/06

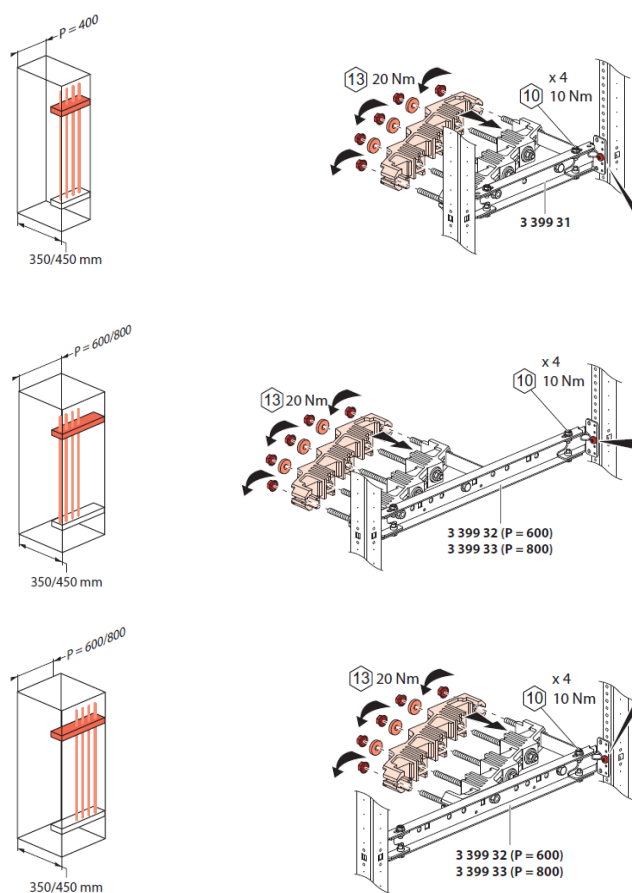
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58



4.6 3 399 31/32/33

These busbar can be installed in vertical position, normally in cable sleeves. Depending on the accessibility of the enclosure (front access or rear access), the busbar can be fitted in front or back position (only for 3 399 32/33, the position for 3 399 31 is fixed).

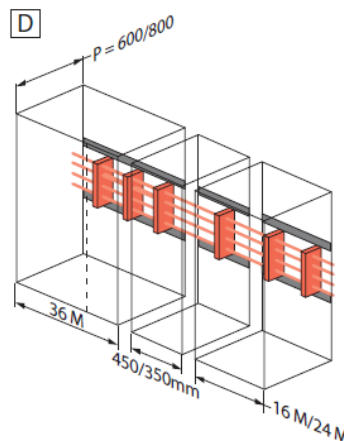


4.7 3 399 29/30

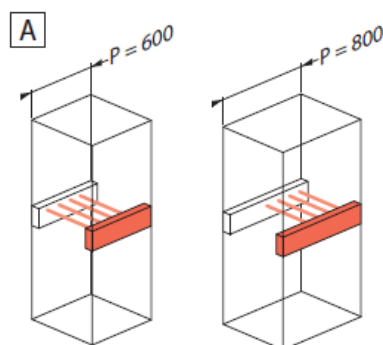
These busbars are intended to be used to realize the main busbar and the vertical busbars.

They are suitable for 5mm thickness flat copper bars and for 10mm thickness flat copper bars.

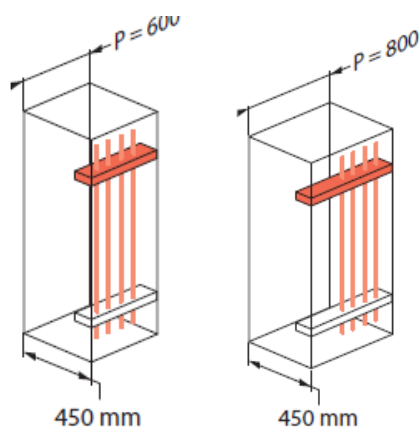
They can be used in vertical orientation in the back part of the enclosure:



They can be used as horizontal main busbar in 600 or 800mm depth:



They can be used in full depth as vertical busbar installed in cable sleeve:



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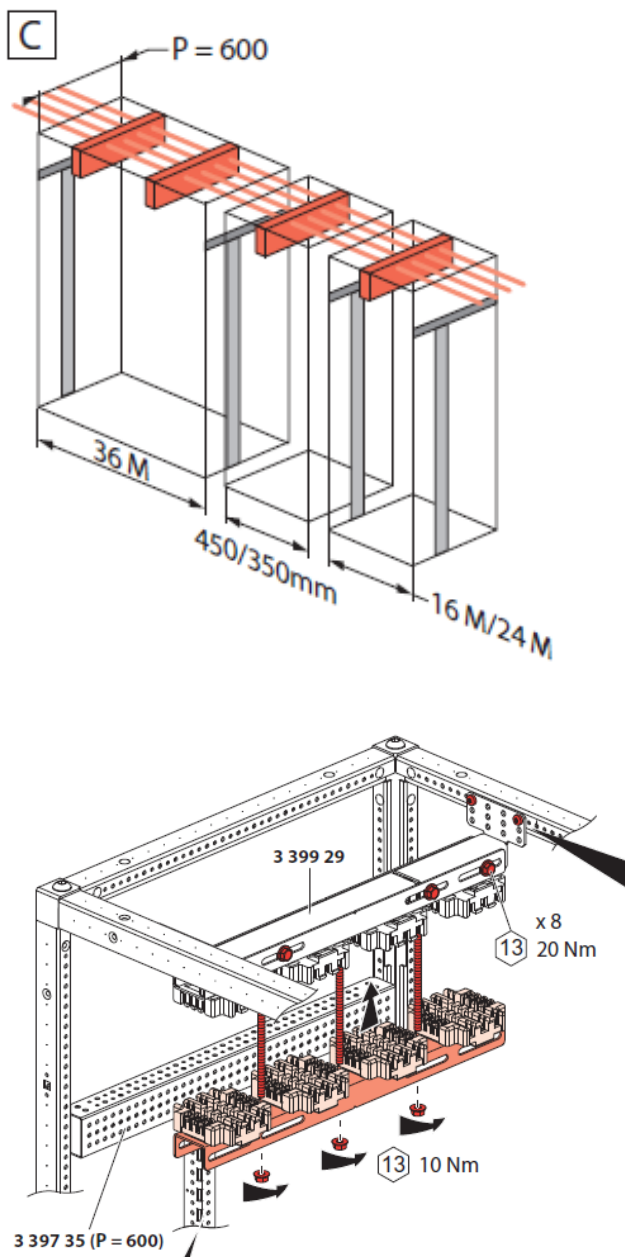
for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

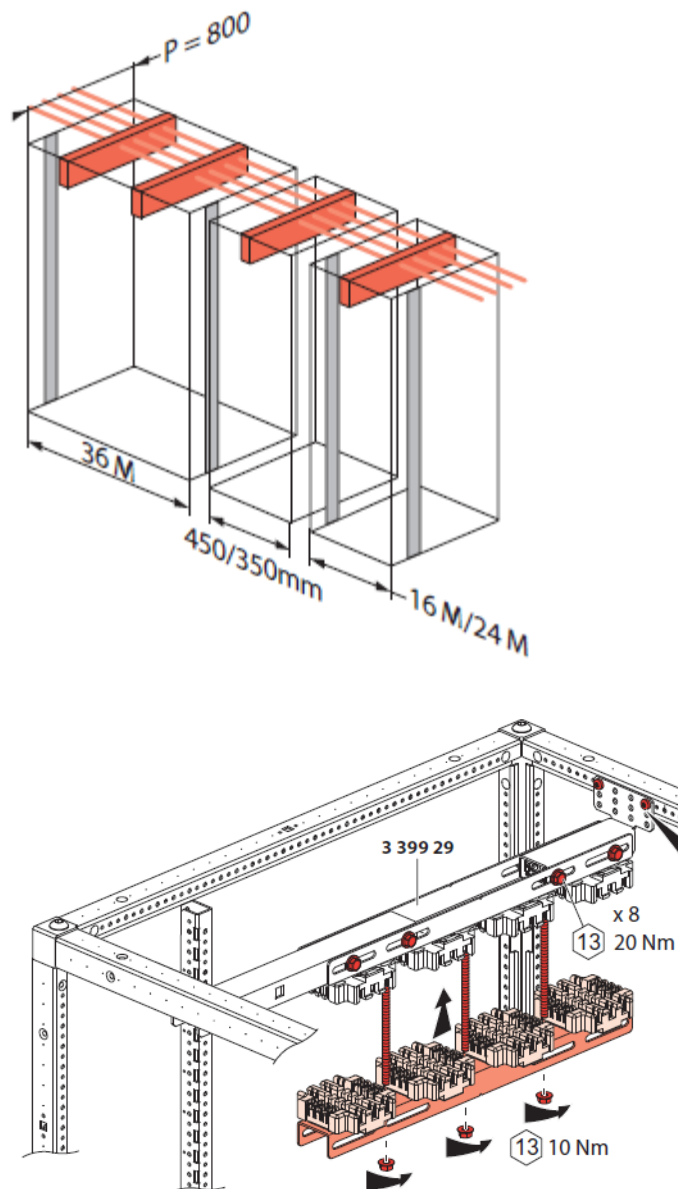
3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

They can be used as main busbar in horizontal installation, in full depth in 600 mm depth enclosures, cutting the functional uprights:



Or in 800mm depth enclosure, without cutting the functional uprights:



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3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

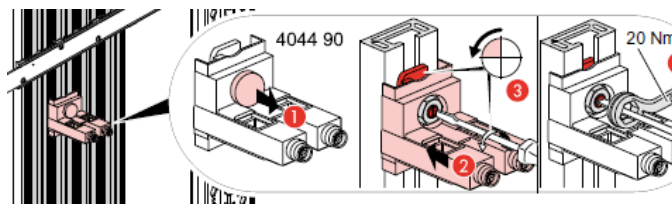
4 044 30/31/32, 0 373 54/55/56/57/58

5. EQUIPMENT AND ACCESSORIES

The busbar system is equipped with all accessories to apply correctly the mechanical connections and the electrical links.

5.1 Tapoff terminal 250A

The item can be connected to the "C-shaped" busbar to create a two-cable junction with a maximum cross-section of 50 mm² and a total rated current of 250 A. The product is IP20 by design.

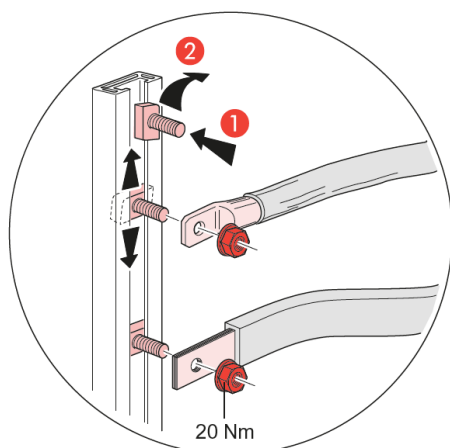


The item 4 044 90 can be used on busbars references 4 044 30/31/32.

The item 4 044 89 can be used on busbar reference 4 044 33.

5.2 Hammer nuts

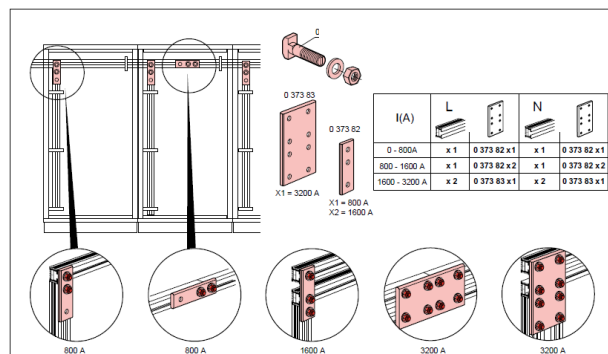
They are used to fix cables with terminals, to fix bars or bars on distribution bars



ITEM	BUSBAR	DIMENSION [thread]	LENGTH [mm]
4 044 93	4 044 30 4 044 31 4 044 32	M8	22
4 044 94	4 044 33	M8	27
4 044 95	4 044 33 0 373 54 0 373 55 0 373 56 0 373 57 0 373 58	M8	40

5.3 "C-shaped" bars connection kit

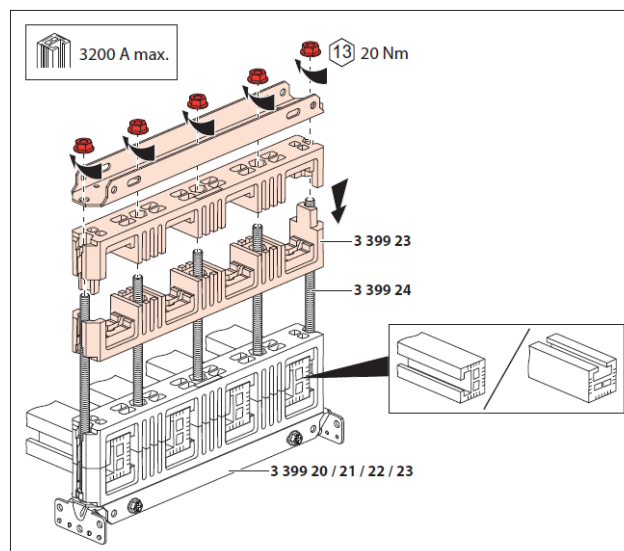
Kit used to easily connect the busbars in the horizontal/horizontal and horizontal/vertical positions.



5.4 Pairing kit for insulating supports

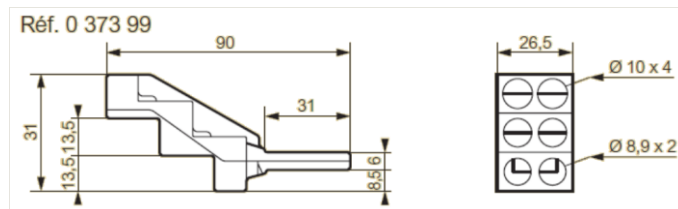
The busbars supports can be paired to reach In up to 3200A.

Item number 3 399 24:



5.5 Six outputs connector 250 A

It can be used to connect four 35 mm² cables and two 25 mm² cables. It's connected to the busbars using the hammer nuts (item 037359).



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4 044 30/31/32, 0 373 54/55/56/57/58

6. TECHNICAL CHARACTERISTICS:

Surface treatment: Copper and Tin plated.

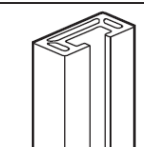
- Nominal voltage (U_n): 415/690V.
- Insulation voltage (U_i): 1,000V.
- Impulse withstand voltage (U_{imp}): 8KV.
- I_n: up to 4000A.
- I_{cw}: up to 50kA.

In details:

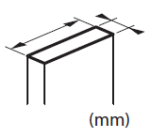
Cat. No	I _n Max
3 399 00	400A
3 399 01	400A
3 399 02	630A
3 399 03	630A
3 399 04	630A
3 399 05	630A
3 399 06	630A
3 399 20	3200A
3 399 21	3200A
3 399 22	3200A
3 399 23	3200A
3 399 25	3200A
3 399 26	3200A
3 399 27	3200A
3 399 29	4000A
3 399 30	4000A
3 399 31	3200A
3 399 32	3200A
3 399 33	3200A

In the following table the details of intensity depending the different cross section of bars.

4 044 30/31/32 (valid for busbars: 3 399 01/02/03/04/05/06)

		I (A)		I (A)	
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	4 044 30	320	250	320	250
	4 044 31	500	400	500	400
	4 044 32	700	630	700	630

3 399 00/01

		I (A)		I (A)	
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	0 374 34 ⁽¹⁾ 18 x 4	245	200	245	200
	0 374 38 ^{(2)*} 25 x 4	280	250	280	250
	0 374 18 ⁽²⁾ 25 x 5	330	270	330	270
	0 374 19 32 x 5	450	400	450	400

(1) M6 6 Nm - (2) M6 7,5 Nm

*: only usable in 3 399 00

3 399 20/21/22/23/24/25/26/27/31/32/33

Aluminum bars 0 373 54/55/56/57/58

	Al	I (A)			
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	0 373 54	800	630	630	500
	0 373 55	1000	800	800	630
	0 373 56	1250	1000	1000	800
	0 373 57	1450	1250	1250	1000
	0 373 58	1750	1600	1400	1250
	0 373 58 x 2	3500	3200	2400	2000

Copper bars

	I (A)		I (A)		I (A)		I (A)		I (A)	
	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
50 x 5	700	630	430	350	1150	1000	650	510	1600	1380
63 x 5	800	700	500	400	1350	1150	770	590	1900	1600
75 x 5	950	850	600	475	1500	1300	890	700	2200	1900
80 x 5	1000	900	630	500	1650	1450	940	740	2350	2000
100 x 5	1250	1050	750	580	1900	1600	1120	900	2900	2450
125 x 5	1450	1270	1000	800	2500	2150	1450	1250	3450	2900
50 x 10	950	850	880	650	1680	1470	1250	1050	-	-
60 x 10	1150	1020	1000	800	2030	1750	1600	1250	-	-
80 x 10	1460	1270	1150	950	2500	2150	1700	1500	-	-
100 x 10	1750	1500	1350	1150	3050	2550	2000	1650	-	-
120 x 10	2000	1750	1650	1450	3600	3000	2500	2000	-	-

3 399 29/30

	I (A)		I (A)		I (A)		I (A)		I (A)	
	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
50 x 5	700	630	500	420	1180	1020	750	630	1600	1380
63 x 5	800	700	600	500	1380	1180	750	630	1900	1600
75 x 5	950	850	700	600	1600	1400	1000	850	2200	1900
80 x 5	1000	900	750	630	1700	1480	1050	900	2350	2000
100 x 5	1250	1050	850	700	2050	1800	1200	1050	2900	2450
125 x 5	1450	1270	1000	800	2500	2150	1450	1250	3450	2900
50 x 10	950	850	880	650	1680	1470	1250	1050	2000	1600
60 x 10	1150	1020	1000	800	2030	1750	1600	1250	2400	2250
80 x 10	1460	1270	1150	950	2500	2150	1700	1500	3450	2900
100 x 10	1750	1500	1350	1150	3050	2550	2000	1650	4150	3500
120 x 10	2000	1750	1650	1450	3600	2950	2500	2000	4800	4000

Hereby the tables for the distances of the supports following the I_{pk} intensities needed.

for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

3 399 00

I _{pk} (kA)										
10	15	20	25	30	35	40	45	50	55	60
550	400	300	250	200	150	150	–	–	–	–
650	600	450	350	300	250	200	150	150	100	–
800	700	550	400	350	300	300	200	175	150	150
900	800	700	500	400	350	300	200	100	100	–

3 399 01

I _{pk} (kA)										
10	15	20	25	30	40	50	60	70	80	
1000	700	550	400	350	250	200	200	150	150	
1200	1000	750	600	500	350	300	250	200	200	
1500	1200	950	750	650	450	400	300	250	250	

3 399 02/03/04/05/06

I _{pk} (kA)												
10	15	20	25	30	35	40	45	50	60	70	80	
1600	1200	800	600	400	350	300	250	250	-	-	-	
1600	1200	800	650	500	450	400	350	300	250	175	100	
1600	1200	800	650	500	450	400	350	300	250	175	100	

3 399 20/21/22/23/24/25/26/27/31/32/33

Cu															
	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5	50 x 5	63 x 5	75 x 5 80 x 5	100 x 5	125 x 5
lgk (kA)															
10	1500	1500	1500	1600	1700	1550	1700	1700	1700	1700	1700	1700	1700	1700	1700
15	1300	1050	1300	1350	1500	1200	1500	1500	1700	1350	1400	1500	1700	1700	1700
20	950	950	1000	1000	1250	900	1150	1300	1500	1700	950	1000	1100	1500	1700
25	750	800	850	900	1000	700	900	1150	1300	1400	800	900	1000	1300	1350
30	600	600	650	700	800	600	800	900	1050	1150	600	650	800	900	1150
35	550	550	600	650	750	550	750	850	1000	1100	550	600	700	800	1000
40	450	450	500	550	600	450	600	700	750	850	500	550	650	750	850
45	400	400	450	500	550	400	500	600	650	750	450	500	550	650	750
50	350	350	400	450	500	350	450	550	600	650	400	450	500	600	700
60	300	300	350	400	450	300	500	550	600	550	300	400	500	550	650
70	250	250	300	350	400	250	300	400	450	500	250	300	400	400	500
80	200	200	250	300	350	200	250	300	350	400	200	250	300	350	400
90	200	200	250	250	300	200	250	300	350	350	200	250	300	300	350
100	150	150	200	200	250	150	200	250	300	300	200	250	300	300	350
110	150	150	200	200	250	150	200	250	300	300	150	200	250	250	300

Cu										
(mm)	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
I _{pk} (kA)										
20	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
25	1500	1500	1700	1700	1700	1700	1700	1700	1700	1700
30	1200	1350	1500	1700	1700	1450	1500	1600	1700	1700
35	1000	1150	1400	1500	1700	1250	1300	1500	1600	1600
40	900	1000	1250	1300	1600	1050	1250	1300	1500	1600
45	800	900	1050	1150	1400	950	1100	1200	1300	1500
50	700	800	900	1000	1100	850	900	1100	1200	1400
60	600	700	800	900	1000	700	800	900	1000	1150
70	550	600	700	750	800	600	700	800	900	1000
80	500	550	550	600	700	500	550	600	700	800
90	450	500	550	600	650	450	500	550	650	700
100	400	400	400	500	500	400	450	500	550	600
110	350	350	350	350	350	350	350	400	450	450

 						
	0 373 54	0 373 55	0 373 56	0 373 57	0 373 58	0 373 58 x2
l _{pk} (kA)						
10	1800	1800	1800	1800	1800	1800
15	1800	1800	1800	1800	1800	1800
20	1800	1800	1800	1800	1800	1800
25	1600	1600	1600	1600	1600	1600
30	1600	1600	1600	1600	1600	1600
35	1000	1000	1000	1000	1000	1000
40	1000	1000	1000	1000	1000	1000
45	800	800	800	800	800	800
50	800	800	800	800	800	800
60	700	700	700	700	700	700
70	600	600	600	600	600	600
80	600	600	600	600	600	600
90	500	500	500	500	500	500
100	500	500	500	500	500	500
110	500	500	500	500	500	500

3 399 29/30

Cu																				
	50 x 5	63 x 5	75 x 5	100 x 5	125 x 5	150 x 5	175 x 5	200 x 5	125 x 5	150 x 5	175 x 5	200 x 5	225 x 5	250 x 5	275 x 5	300 x 5	325 x 5	350 x 5	375 x 5	400 x 5
U ₀ /U (kV)	10	1250	1300	1350	1700	1700	1550	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
15	900	950	1000	1150	1500	1500	1350	1500	1500	1500	1500	1400	1450	1500	1700	1700	1600	1700	1700	1700
20	750	750	900	1200	1250	900	1050	1350	1500	1700	1100	1150	1200	1250	1250	1250	1250	1400	1500	1700
25	550	600	800	1100	1150	700	900	1050	1300	1500	850	900	950	1000	1050	1050	1050	1400	1500	1700
30	450	550	700	900	950	600	700	900	1150	1300	750	750	850	850	900	900	850	1150	1200	1350
35	400	500	600	750	800	550	600	750	1000	1100	700	700	750	800	850	850	800	1050	1100	1250
40	350	450	550	650	700	450	500	650	800	950	550	550	600	650	700	650	600	950	1000	1050
45	350	400	500	600	650	450	450	550	750	850	450	450	550	600	650	550	500	850	900	950
50	300	350	450	550	600	400	400	500	700	800	400	400	450	500	550	450	400	800	850	900
60	300	350	400	500	550	300	350	550	600	650	350	400	450	500	550	400	350	600	650	700
70	250	300	350	450	500	250	300	550	350	450	550	350	400	450	500	350	300	550	600	650
80	-	250	300	400	450	250	300	550	350	450	550	350	400	450	500	350	300	550	600	650
90	-	-	250	350	400	-	300	350	400	450	500	350	400	450	500	350	300	450	500	550
100	-	-	-	350	400	-	250	300	350	-	-	250	300	350	400	250	300	350	400	500

Cu		50 x 10	60 x 10	80 x 10	100 x 10	120 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
ipk (kA)																
20		1200	1500	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
25		1000	1200	1450	1500	1700	1500	1700	1500	1700	1700	1700	1700	1700	1700	1700
30		900	1000	1200	1400	1550	1350	1450	1550	1500	1300	1450	1500	1700	1700	1700
40		800	900	1000	1150	1200	1200	1350	1450	1500	1300	1500	1500	1700	1700	1700
45		700	800	900	1000	1150	1150	1250	1300	1450	1500	1150	1300	1500	1700	1700
50		600	700	750	900	1000	1000	1150	1300	1350	1500	1000	1150	1350	1500	1500
55		500	600	700	800	900	750	900	1000	1150	1250	900	1000	1250	1300	1350
60		450	500	550	650	700	650	700	800	900	1000	750	800	1000	1050	1050
70		350	400	450	550	600	600	650	700	750	800	650	700	800	850	850
80		300	350	400	450	500	450	500	550	600	650	500	550	600	700	750
90		250	300	350	400	450	450	500	550	600	600	500	550	600	650	700
100		250	250	300	350	400	350	350	400	450	500	400	450	500	550	600

XL³ S busbar system

for XL³ S 630/4000 enclosures

Cat. No(s): 3 399 00/01/02/03/04/05/06

3 399 20/21/22/23/24/25/26/27/28/29/30/31/32/33/36/37/38/39/40

4 044 30/31/32, 0 373 54/55/56/57/58

7. CONFORMITY AND APPROVALS

The busbar system is compliant to:

IEC 61439-1/2 (installed in the respective enclosures).

IEC 60695-2-11.