



BREAKER AL VACIO DE MEDIA TENSION

VV-ZZN63A(VS1)-12 Indoor High Voltage Vacuum Circuit Breaker

- TIPO FIJO
- TIPO EXTRAIBLE



VV-ZZN63A(VS1)-12 Indoor High Voltage Vacuum Circuit Breaker

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1. General

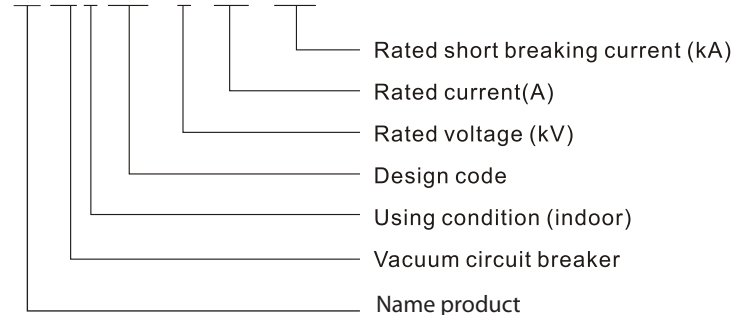
VV-ZZN63A(VS1)-12 series vacuum circuit breaker is indoor high voltage switchgear with rated voltage 12kV, three-phase AC 50Hz, which is developed by introducing from Italy, VOLTO Corporation technology and analyzing domestic profession development condition, productivity development manufacture product. The overall structure of this product is formed with the switch main body and operating device, uses the compound insulation structure, does not have the pollution and the explosion hazard, and the insulation level is high. This operating device of the series product is for the spring loaded type, can use the electrically operated operation, also can use the manual operation.

2. Working conditions

- 2.1 Altitude not exceeding 1000m
- 2.2 Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 2.3 Relative humidity: monthly average not exceeding 90%, daily relative humidity not exceeding 95%
- 2.4 Earthquake level not exceeding 8 class.
- 2.5 Without corrosion, explosion and chemical matter.

3. Type designation

VV ZZN 63 A - 12 / 630 - 31.5



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4. Specifications

Serial number	Item	Unit	Data		
			31.5kA	40kA	50kA
1	Rated voltage	kV	12/17.5/24kV		
2	Maximum working voltage	kV	12		
3	Rated current	A	1250, 1600, 2000, 2500	1250, 1600, 2500, 3150	1250, 2500, 3150
4	Rated short-circuit break current	kA	31.5	40	50
5	Rated short-circuit close current (peak value)	kA	80	100	125
6	Rated withstand current (peak value)	kA	80	100	125
7	4S Rated little withstand current	kA	31.5	40	50
8	Rated insulation level	kA	42/50/60		
			75/95/125		
9	Rated operation order		Off-0.3S on and off-180S-on and off		
10	Mechanical life	times	10000		
11	Rated short-circuit current break and close time	times	50		
12	Speak and move organization amount assign the current of the floodgate(DC)	V	110,220		
13	Speak and move organization amount equal to the voltage of the floodgate(DC)	V	110,220		
14	Switching distance of the contact	mm	≥11		
15	Ultra journey(touches the head springand compress length)	mm	4±0.5		
16	Three-phase breaking into 、 shut floodgate sex of the same period	ms	≤2		
17	Touch the head and shut a floodgate of time of bouncing	ms	≤2		
18	Average speed of breaking brake	m/s	0.9~1.2		
19	Average speed of closing brake	m/s	0.6~0.8		
20	Time of breaking brake	s	≤0.05		
			≤0.08		
21	Time of colsing brake	s	≤0.1		
22	Each the resistance of main return circuit	μ Ω	≤40		
23	Allowance abrasion cumulated thickness of the moving and stationary contact	mm	3		

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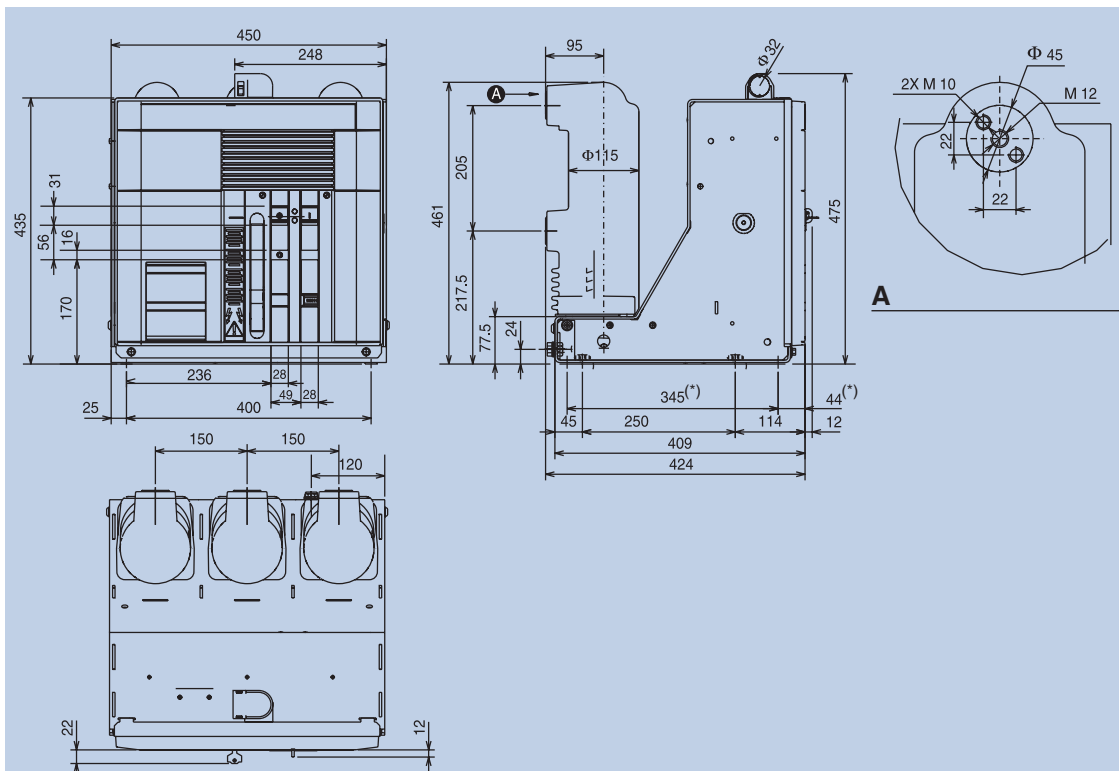
DIMENSIONES GENERALES

Interrupidores fijos

TN	7405
Ur	12 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

TN	7405
Ur	17,5 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

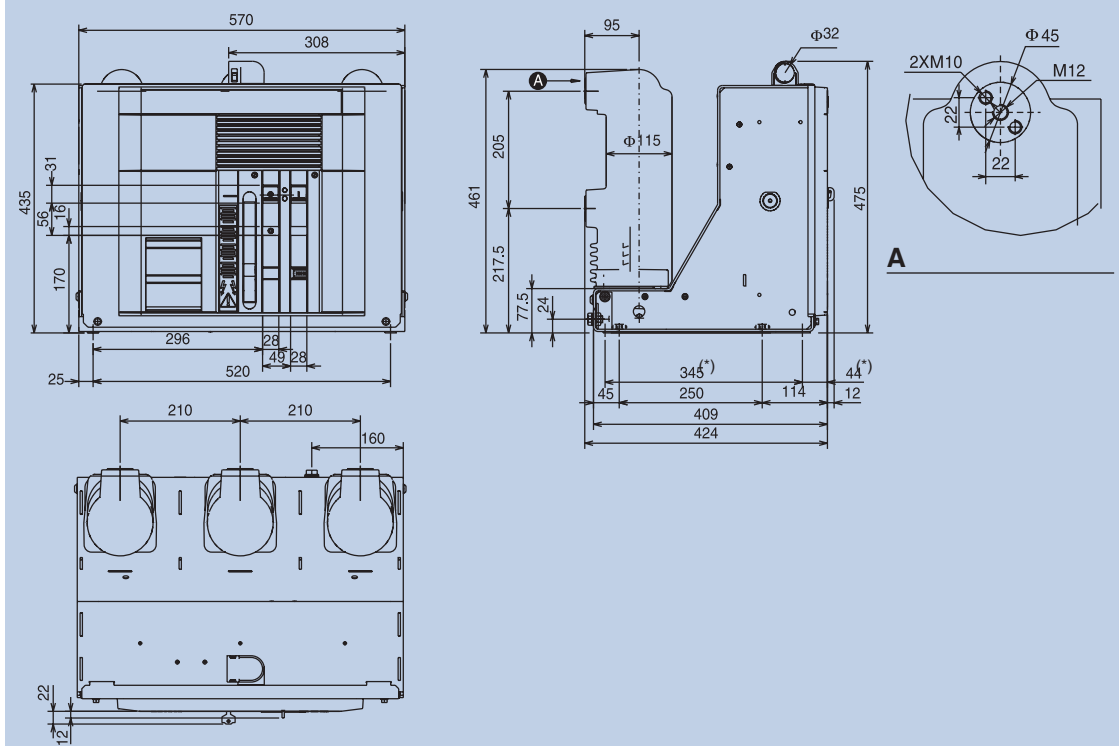
(*) Intercambiabilidad fijación con la serie precedente (345 x 400).



TN	7406
Ur	12 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

TN	7406
Ur	17,5 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 520).



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1VCD000051

Ur 12 kV

Ir 630 A

1250 A

Isc 16 kA

20 kA

25 kA

31,5 kA

1VCD000051

Ur 17,5 kV

Ir 630 A

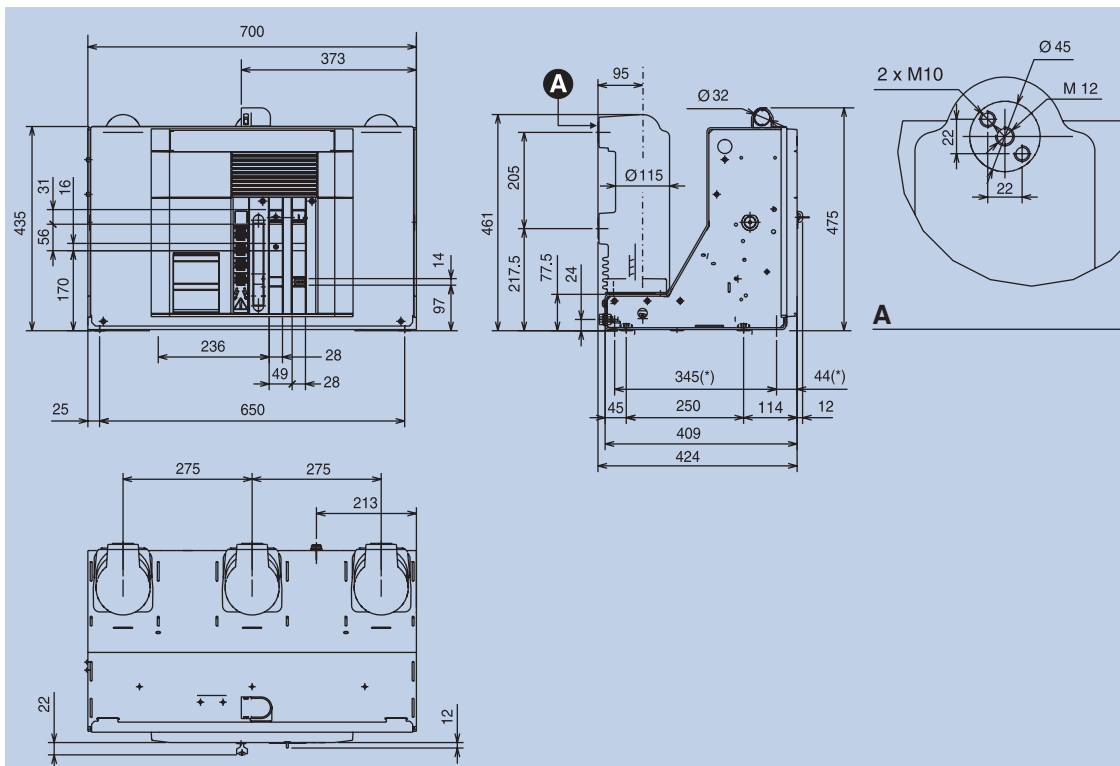
1250 A

Isc 16 kA

20 kA

25 kA

31,5 kA

(*) Intercambiabilidad
fijación con la serie
precedente
(345 x 650).


1VCD000050

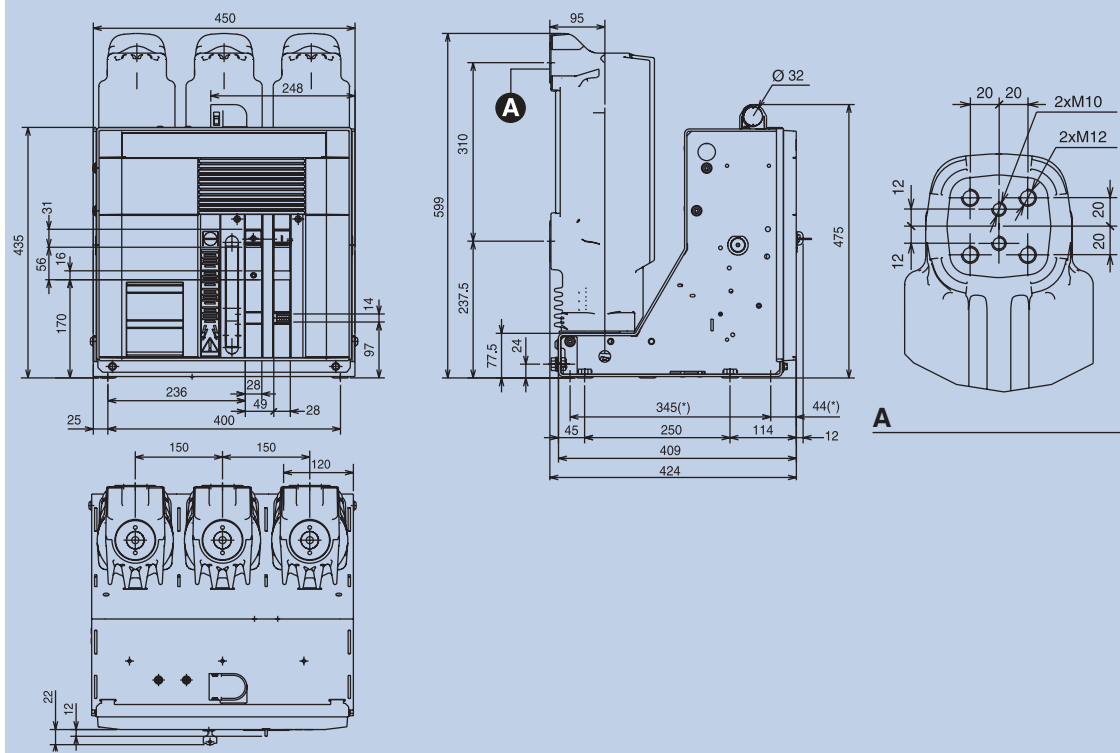
Ur 12 kV

Ir 1600 A

Isc 20 kA

25 kA

31,5 kA

(*) Intercambiabilidad
fijación con la serie
precedente
(345 x 400).


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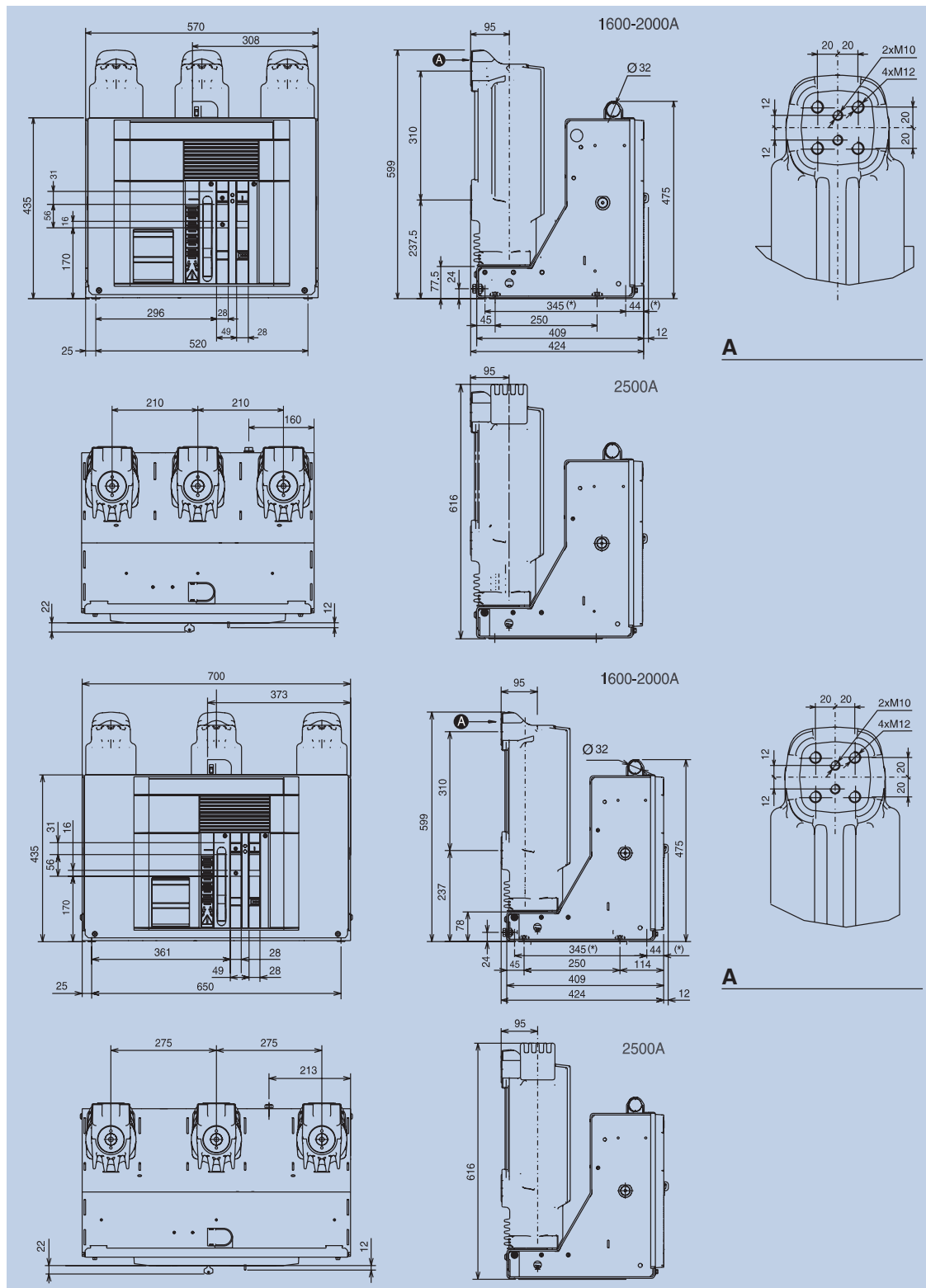
DIMENSIONES GENERALES

Interruptores fijos

TN	7407
Ur	12 kV 17,5 kV
Ir	1600 A 2000 A 2500 A
Isc	20 kA 25 kA 31,5 kA

TN	7407
Ur	12 kV 17,5 kV
Ir	2000 A
Isc	40 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 520).



TN	7408
Ur	12 kV 17,5 kV
Ir	1600 A 2000 A 2500 A
Isc	20 kA 25 kA 31,5 kA

TN	7408
Ur	12 kV 17,5 kV
Ir	2000 A 2500 A
Isc	40 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 650).

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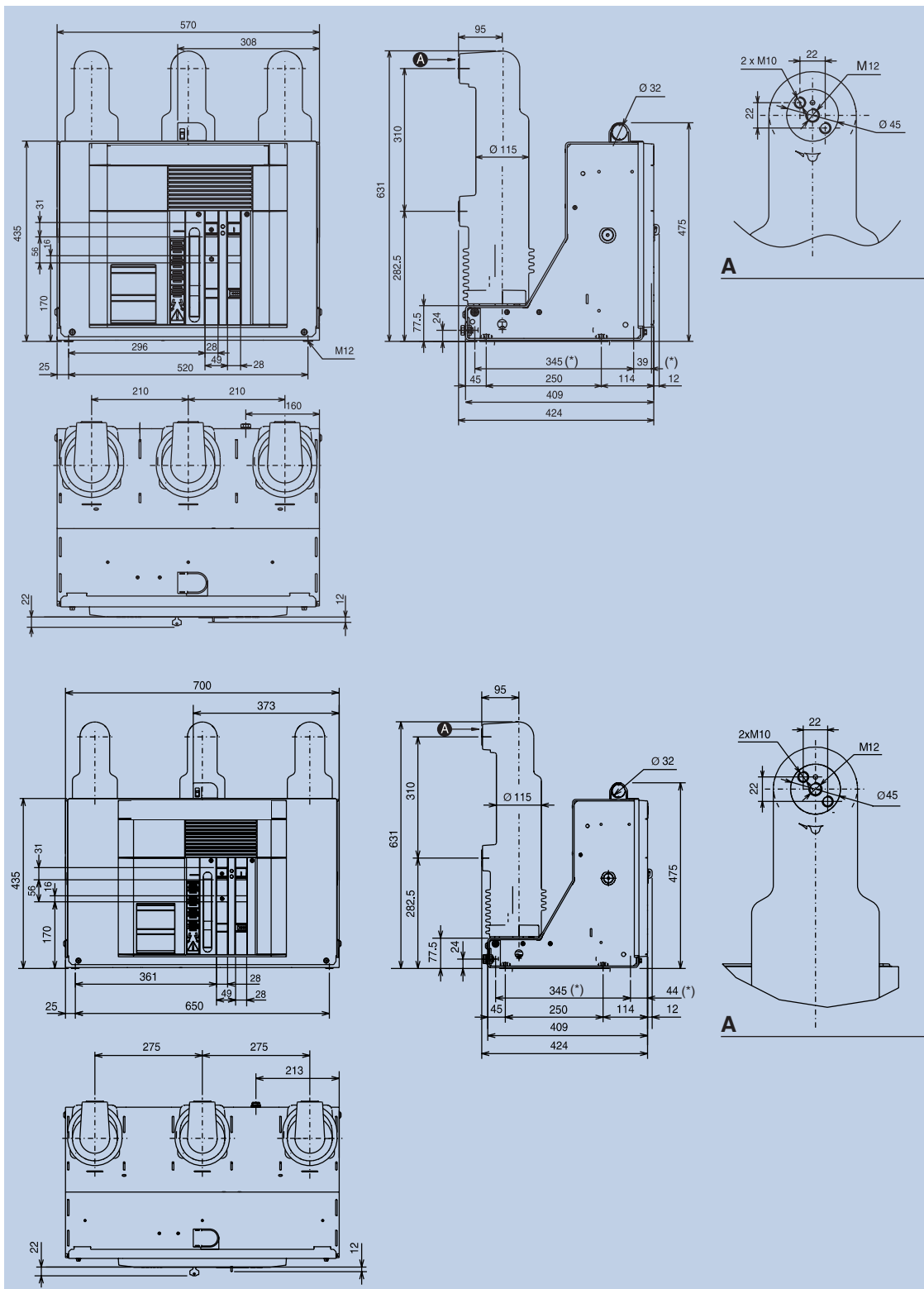
6

TN	7409
Ur	24 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 520).

TN	7410
Ur	24 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 650).



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DIMENSIONES GENERALES

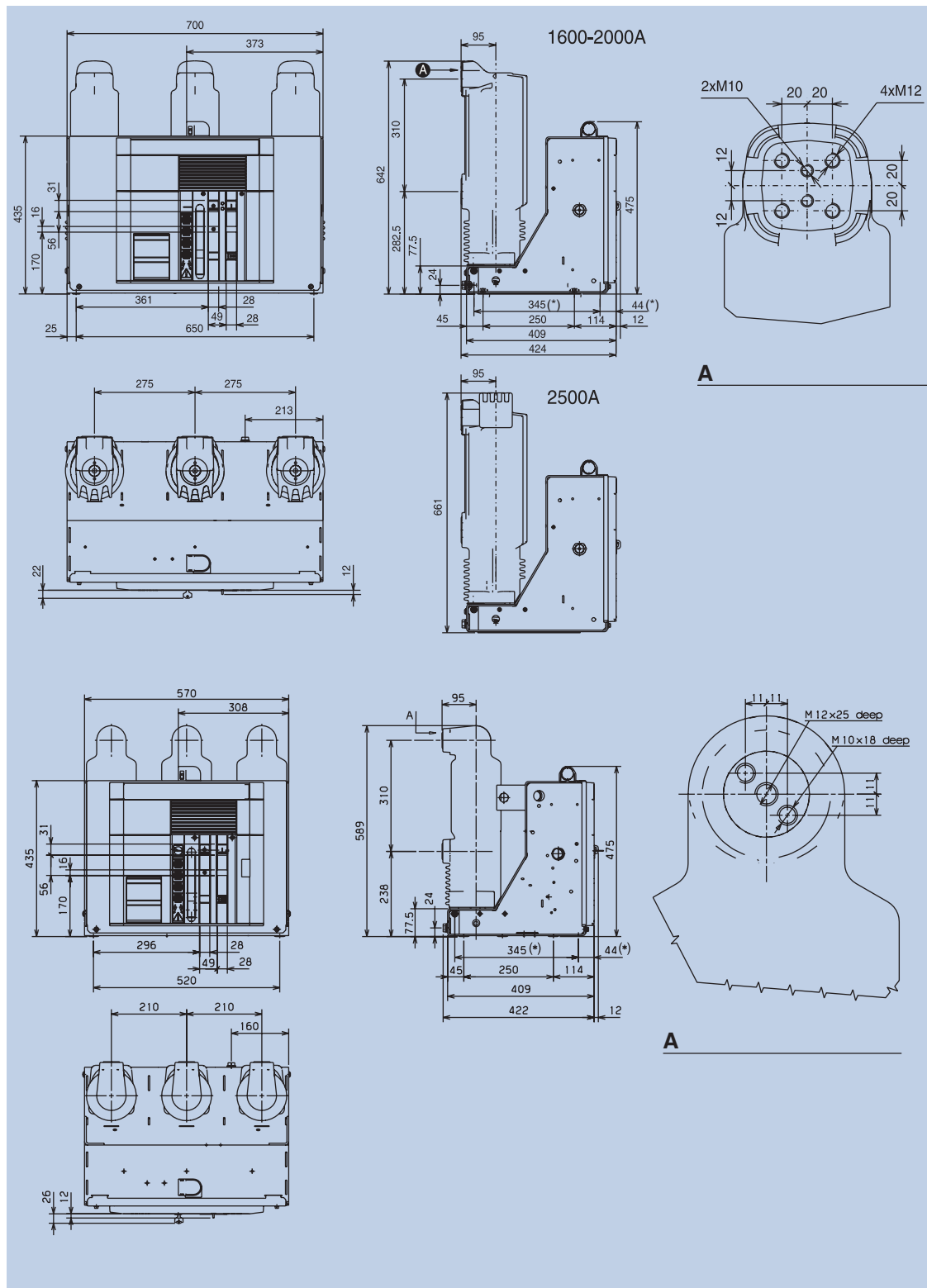
7

Interruptores fijos

TN	7411
Ur	24 kV
Ir	1600 A
	2000 A
Isc	16 kA
	20 kA
	25 kA

TN	7411
Ur	24 kV
Ir	2500 A
Isc	25 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 650).



TN	1VCD003282
Ur	12 kV
	17,5 kV
Ir	1250 A
	1600 A
Isc	40 kA

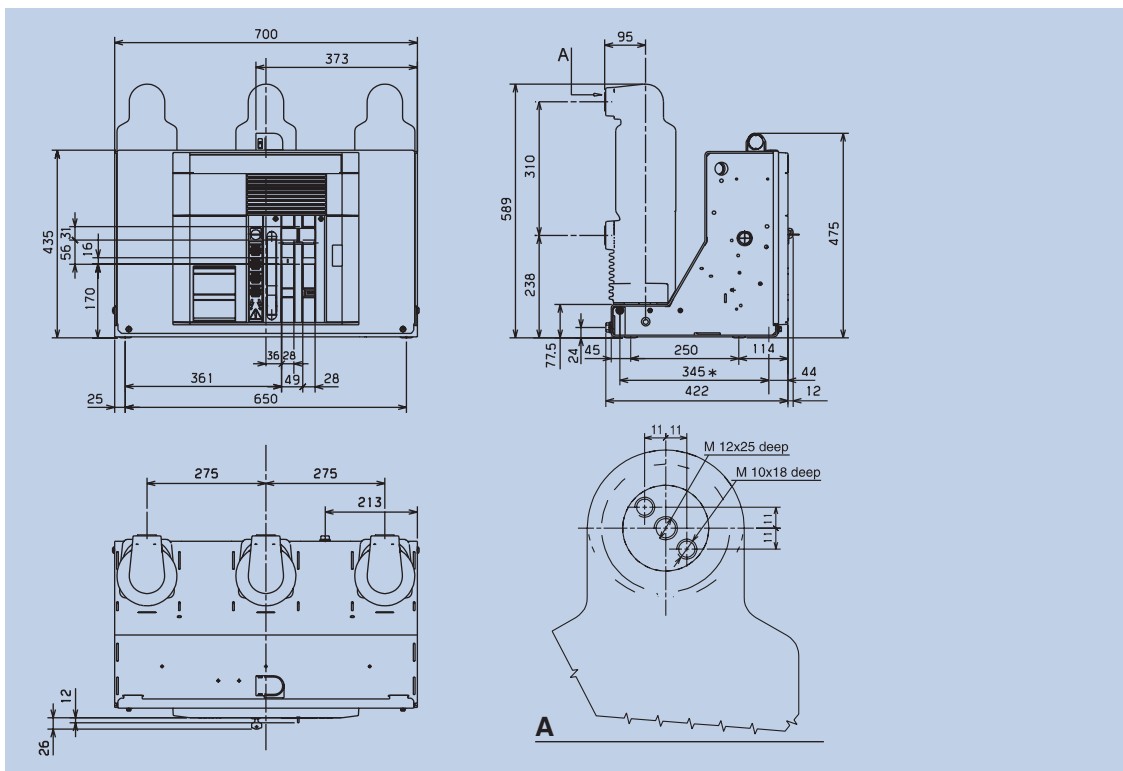
(*) Intercambiabilidad fijación con la serie precedente (345 x 650).

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TN	1VCD003285
Ur	12 kV
	17,5 kV
Ir	1250 A
	1600 A
Isc	40 kA

(*) Intercambiabilidad fijación con la serie precedente (345 x 650).



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DIMENSIONES GENERALES

Interrupidores extraíbles para cuadros UniGear tipo ZS1 y módulos PowerCube

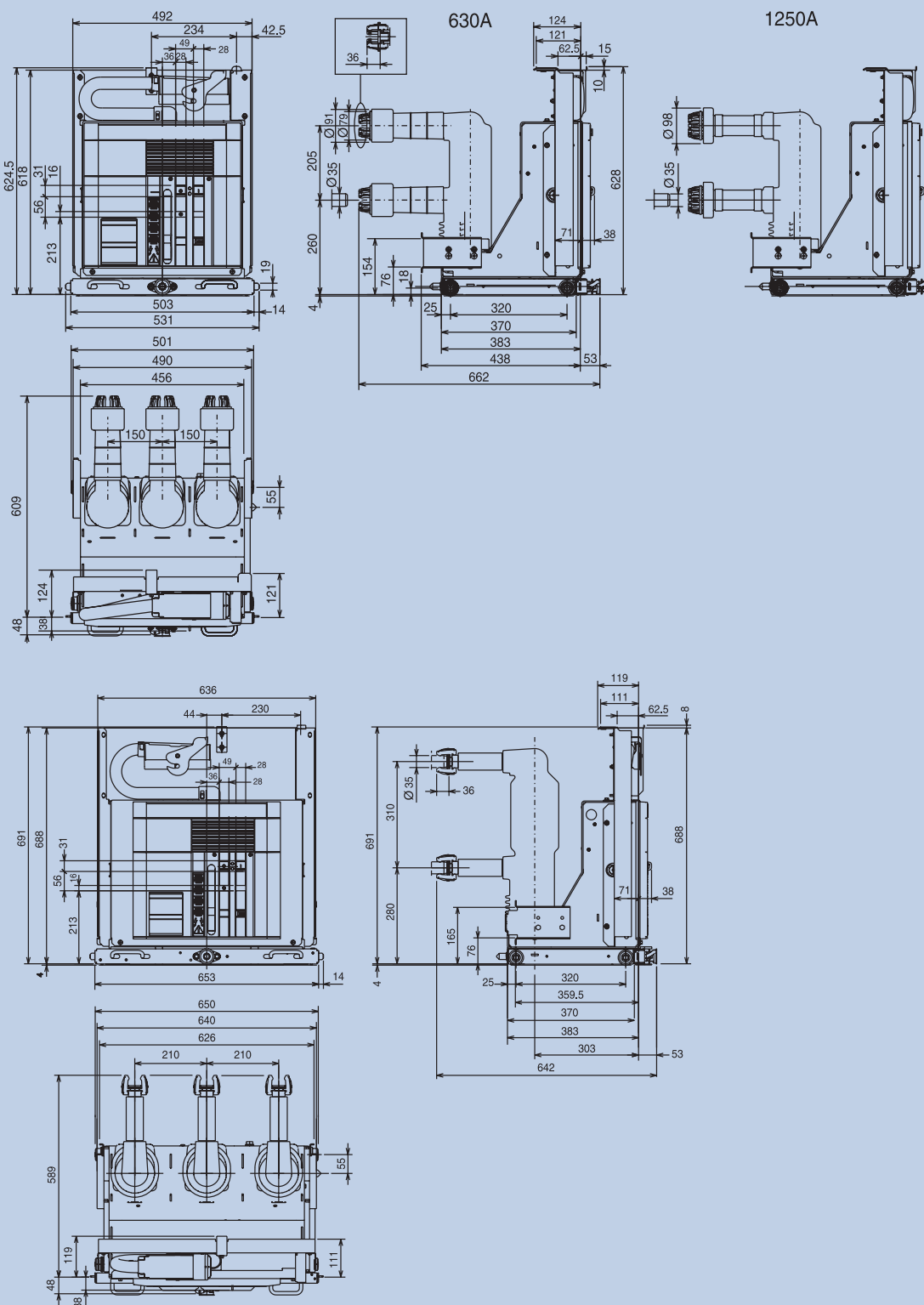
TN	7412
Ur	12 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

TN	7412
Ur	17,5 kV
Ir	630 A
	1250 A
Isc	16 kA
	20 kA
	25 kA
	31,5 kA

TN	7420
Ur	12 kV
Ir	630 A
	1250 A
Isc	16 kA
	25 kA
	31,5 kA

TN	7420
Ur	17,5 kV
Ir	630 A
	1250 A
Isc	16 kA
	25 kA
	31,5 kA

(1) Sólo para módulos PowerCube.

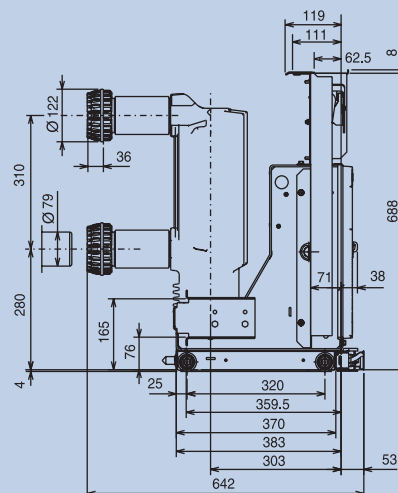
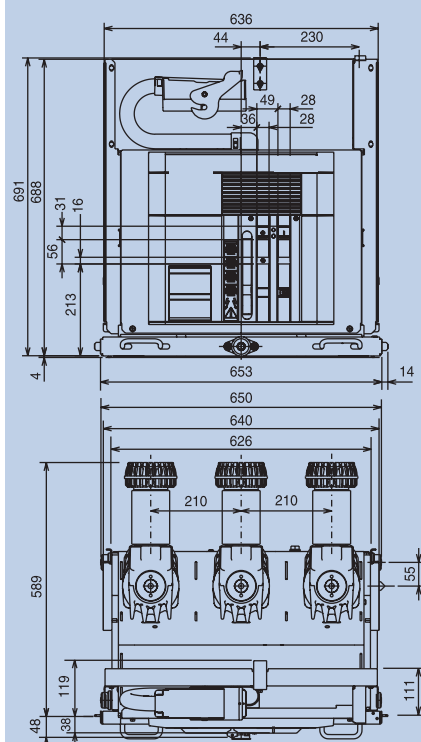


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10

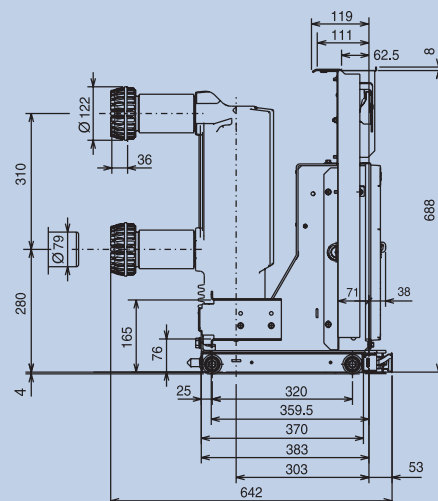
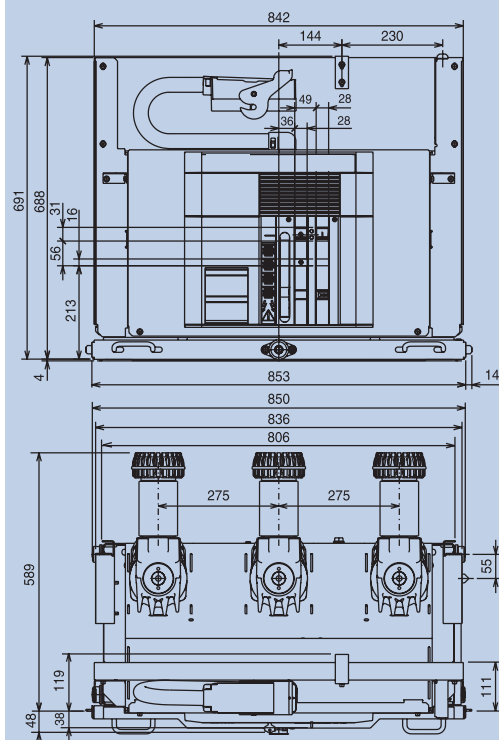
TN	7415
Ur	12 kV
	17,5 kA
Ir	1600 A
	2000 A
Isc	20 kA
	25 kA
	31,5 kA

TN	7415
Ur	12 kV
	17,5 kA
Ir	2000 A
Isc	40 kA



TN	7416
Ur	12 kV
	17,5 kA
Ir	1600 A
	2000 A
Isc	20 kA
	25 kA
	31,5 kA

TN	7416
Ur	12 kV
	17,5 kA
Ir	2000 A
Isc	40 kA



(1) Sólo para cuadros UniGear tipo ZS1.



WWW.VOLTO-ELECTRICAL.COM



VOLTO-ECUADOR
BRONZAG S.A.

Av. Juan Tanca Marengo Km. 2,5 Edif. Ordoviv

Telef: 593(04) 288-4523

www.bronzag.com ventas@bronzag.com

