



IMPACT

800A ÷ 2500A
SHARJAH EDITION

B U S B A R T R U N K I N G S Y S T E M



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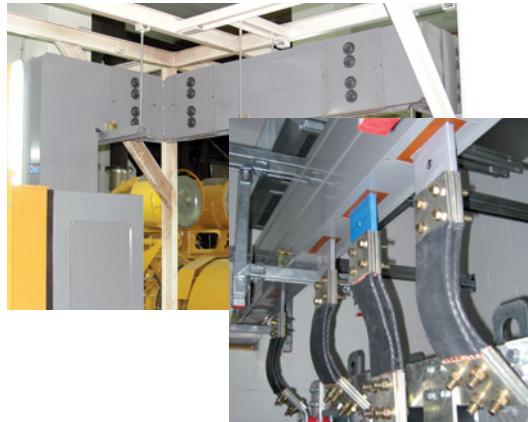
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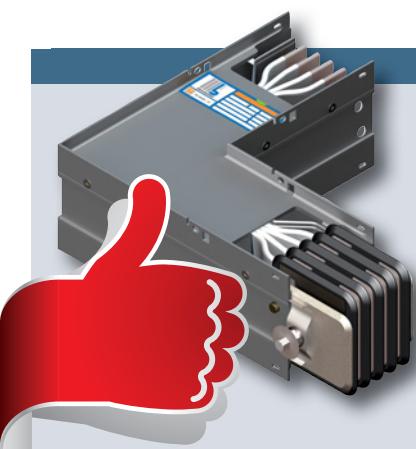


Megabarre Group reserves the right to supply products that may differ in details from those shown in this publication, due to its policy of continuous development.



The IMPACT busbar trunking system is designed for power transport and distribution and is especially suitable in the electrical switchroom both as a transformer-switchboard or switchboard-switchboard connection and as the main power distribution system for industrial, commercial and service industry. The IMPACT SHARJAH EDITION busbar trunking system is realized in the version with copper conductors and current ratings from 800A to 2500A granted with a maximum ambient temperature (daily average) of 50°C or 55°C. Thanks to a casing made with an aluminium alloy extruded profile which gives to the product great mechanical rigidity and resistance performances (with a very light weight), the product can be used in its standard configuration also in boundary ambient conditions. The product is offered in the 3P+N+Fe/2+Pe with the Ne section equal to the phase section, a dedicated earth conductor with a cross-section equal to 50% of the phase cross-section and with protection conductor (casing) with an equivalent section more than 100% of the phase cross-section. Phase and neutral conductors are made by one or two bars depending on the rated current. In case of two bars version, the bars are opportunely connected in parallel at each junction. On request, copper conductors can be galvanically tin-or silver-plated along their entire length while the copper joint monoblock is always tin-plated and, on request, can be silver-plated. The IMPACT busbar trunking system is offered in the standard version painted RAL 7037. The IMPACT busbar trunking systems are made with sandwich technology (COMPACT); the conductor bars are compacted without any space inside the casing and are fully insulated using a no hygroscopic halogen free polyester sheath (thermal class 150°C), or class F (155°C). This technology guarantees the products high performance in relation to voltage drop values even in high current and long runs. The standard protection degree is IP55 (on request IP66 only for transport lines without tap-off units). For outdoor installations an extra protection (canopy) is used. The electrical connection is achieved by a monoblock system with one or more bolts (depending of the busbar trunking rated current) with an anti-screwing spring which guarantees the electrical continuity between the units of the run. The self-breakable bolt is double headed; the first head is used for the installation (breaking at 85 Nm torque moment) carried out without any special tool, while the second head will be available for future maintenances and inspections. A visual signal (red tag) confirms the correct tension on the monoblock. The mechanical connection is achieved when the joint cover unit is completely installed, thus guaranteeing that the IP55 protection degree is achieved (on request IP66). A mechanical interlock device prevents the installer from completing the mechanical connection until the electrical connection is correctly completed. The joint monoblock doesn't need any maintenance.

WHY CHOOSE IMPACT?



ADVANTAGES

- Nominal rating guaranteed both for flat and edgewise installations (no derating)
- Nominal rating is related to an ambient temperature up to 50°C - 55°C
- Protection degree guaranteed both for flat and edgewise installations
- Painted aluminium extruded alloy casing with high mechanical strength characteristics
- Maintenance free monoblock joint with tin plated copper contacts
- Smaller
- Lighter
- Customized on request
- An engineering department at your disposal for site measurements, trunking run evaluations and electrical equipment connection study (switchboard, transformer etc...).





A GREEN PRODUCT

The IMPACT trunking units are 100% reusable in case it is necessary to change its layout. 98% of the product material is recyclable and the distinctive production process is able to reduce manufacturing time and also minimise energy consumption according to common standards for minor environmental impact.

CONFORMS WITH:

CEI-EN 61439 - 1/6
IEC 61439 - 1/6
CEI-EN 60529
IEC 529
EN 1366-3
IEC 60331
IEC 60332

The calculation of the operational current (I_b) for a three-phase system of an IMPACT busbar trunking IMPACT can be made using the following formula:

$$I_b = \frac{P \times F}{\sqrt{3} \times U_e \times \cos\varphi}$$

...and it has to consider the following parameters.

P total power of the feed load (W)

F feeding load contemporary factor

According to the feeding load quantity and to the placement (industrial, residential, service etc...) there is a coefficient that indicates the contemporary charge factor, even if, it is necessary to evaluate each case. Following please find some suggestions related to the number of loads and to the placement type:

PLACEMENT	NUMBER OF USERS	CONTEMPORARY FACTOR (F)
INDUSTRIAL	from 1 to 10	0,8 - 0,9
INDUSTRIAL	from 10 to 20	0,7 - 0,8
INDUSTRIAL	from 20 to 40	0,6 - 0,7
INDUSTRIAL	MORE THAN 40	0,5 - 0,4
SERVICE	BIG OFFICES	0,7 - 0,8
SERVICE	SHOPPING CENTERS	0,8 - 0,9

U_e operating voltage(V)

Example: Placement industrial
User N° 18
Single user power 50 kW
Voltage 400V
 $\cos\varphi$ 0,95

$$I_b = \frac{P \times F}{\sqrt{3} \times U_e \times \cos\varphi}$$

total power 18x50=900 kw → 900000 W (P)
Contemporary factor 0.8 (F)

$$I_b = \frac{900000 \times 0,8}{1,73 \times 400 \times 0,95} = 1115A$$

...approximately we suggest to calculate at least 20% of margin between the rating required and the nominal rating of the conductor according to possible expanding.

1115A + 20% = 1338A

The IMPACT busbar trunking that can be used as...

1600A Cu

...it is necessary to control the ambient temperature of the busbar placement.

The IMPACT conductors are dimensioned according to the max ambient temperature (daily average) of 50°C, or 55°C.

According to the real ambient conditions, the conductor must be downgraded following this schedule.

K downgraded factor according to the ambient temperature (°C)

Ambient temperature * (°C)	50	55	60	65	70
Downgraded K factor	1	1	0,84	0,75	0,6

Example. Ambient temperature (daily average) 60 °C

The IMPACT conductor 4000A has to be downgraded according to the K factor that is equal to 0,84.

1600 x 0,84 = 1344A

...if the ambient temperature is 60 °C, the 1600A conductor can be used with a maximum current not higher than 1344A.

If the value doesn't guarantee the maximum current required, it is necessary to choose a conductor with a higher rating.

The selection of IMPACT conductor according to the voltage drop.

The selection of IMPACT busbar system must be made according to the maximum limit of voltage drop required by the specific reference.

The voltage drop calculation (ΔV percentage) for a three-phase system of an IMPACT busbar trunking system must be calculated following this formula:

$$\Delta V\% = \frac{D \times t \times I_b \times L}{U_e} \times 100$$

and must consider these parameters

D Load distribution factor

according to the feeding point and the location of the loads to feed, there is a multiplier coefficient. This multiplier allows a quick calculation that must be considered approximate.

D=1 Feeding on one side and load at the end of the line. Feeder line



D=0,5 Feeding on one side and loads equally distributed along the length. Distribution line



t Unitary voltage drop value

according to a $\cos\varphi$ data, the following schedule contains the unitary voltage drop values for (μ V) 1 ampere for 1 meter of the IMPACT busbar trunking system. (calculated with 50°C ambient temperature)

	800A	1000A	1250A	1600A	2000A	2500A
$\cos\varphi=0,70$	77,90	77,90	69,42	52,36	45,02	34,62
$\cos\varphi=0,75$	80,58	80,58	71,50	53,96	46,62	35,48
$\cos\varphi=0,80$	83,04	83,04	73,36	55,36	48,10	36,20
$\cos\varphi=0,85$	85,16	85,16	74,88	56,52	49,38	36,72
$\cos\varphi=0,90$	86,80	86,80	75,90	57,32	50,38	37,00
$\cos\varphi=0,95$	87,54	87,54	76,02	57,44	50,88	36,74
$\cos\varphi=1$	83,04	83,04	70,94	53,64	48,44	33,56

I_b Addition of all the effective loads of the trunking busbar (A)

L Total length in meters of the busbar trunking (m)

U_e Feeding nominal voltage (V)

Example: IMPACT 1600A Cu busbar trunking verification with a distributed load

(L)	line length	80m
(I _b)	effective load	1115A
(U _e)	feeding voltage	400V
$\cos\varphi$		0,95
(D)	load distribution factor	0,5
(T)	Unitary voltage drop value for 1600A Cu	57,44 (V) 10 ⁻⁶
(ΔV)	maximum voltage drop admitted	2,5%

$$\Delta V\% = \frac{D \times t \times I_b \times L}{U_e} \times 100$$

$$\Delta V\% = 0,5 \times \frac{57,44 \times 10^{-6} \times 1115 \times 80}{400} \times 100$$

$$\Delta V\% = 0,5 \times \frac{57,44 \times 1115 \times 80}{400 \times 10^6} \times 100 = 0,64\%$$

The value is less than the max limit admitted (2,5%), so the verification is positive

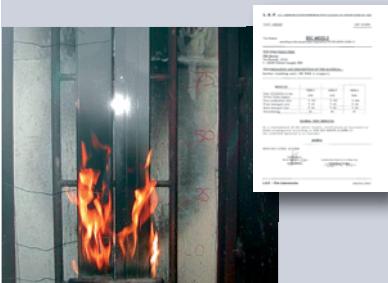
The IMPACT busbar trunking system is used for power transport and distribution and is especially suitable both in electrical cabins as a transformer-switchboard or switchboard-switchboard connection and in the main power distribution for industrial, commercial and service industry. The increasing evolution of the technology system over the modern market has made these products more and more efficient and able to satisfy the installation requirements and guarantee application reliability.

The demand for busbar trunking systems installation increases in public places such as hospitals, theaters, banks, schools etc... or in skyscrapers or on ships and in wind energy towers.

With IMPACT series, Megabarre wants to offer a "product ready for everything" investing in productive technology process, product material, product assistance and certification.

Please find below a complete list of certification for each rating in accordance with IEC 60439-1/IEC 60439-6:

- 10.2 Strength of materials and parts: Resistance to corrosion
- 10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
- 10.2.6 Mechanical impact
- 10.2.7 Marking
- 10.2.10.1 Ability to withstand mechanical loads
- 10.2.10.2 Thermal cycling test
- 10.3 Degree of protection of assembly
- 10.4 Clearances and creepage distances
- 10.5 Protection against electric shock and integrity of protective circuits
- 10.9 Dielectric properties
- 10.10.2.3.5 Verification of temperature rise limits of a BT run
- 10.10.2.3.6 Verification of temperature rise limits of a tap-off unit
- 10.11 Short-circuit withstand strength
- 10.13 Mechanical operation
- 10.101 Resistance to flame propagation
- 10.102 Fire resistance in building penetration



Test to verify the no propagation of flame according to the IEC 60332 norm.

This tests certifies that, when the IMPACT bus-bar trunking system is subjected to a direct flame, the flame itself does not propagate to a longer distance than 2,5 m.

Verification of compliance with EN 1366-3 in relation to when a busbar passes through a wall or floor that the limitation of smoke transmission, flame and temperature for a given time period is guaranteed.

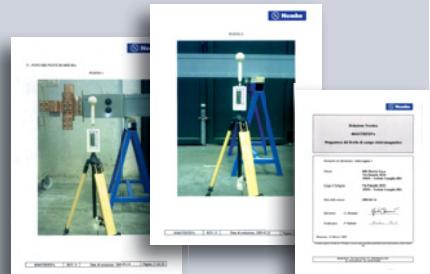
Test time: 180 minutes
Certification: EI 180



Test to verify the flame-resistance with mechanical shock according to the IEC 60331 norm.

This test certifies that, when the IMPACT bus-bar trunking system is subjected to both a direct flame and a provoked impact, it insures the continuity of the energy distribution for a given period of time.

Test time: 45 minutes - 120 minutes - 180 minutes
Certified time:
45 minutes (standard trunking system);
120 minutes (specially insulated trunking system);
180 minutes (specially insulated trunking system).



The mapping of the electromagnetic field level according to the CEI 211-6 / 2001 norm.

The test verifies the emission of the electromagnetic field at variable distances from the trunking at a specified nominal rating.

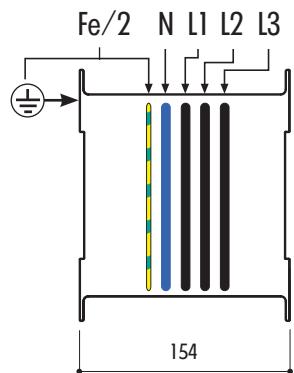


Vibrations test according to the IEC 60068 norm.

This test certifies that the IMPACT busbar trunking system subjected to vibrations of 0,7 g and to 2 g along the three axis confirms its compliance with both the dielectric tests and the mechanical functioning tests.

Test value: 0,7 g / 2 g (acceleration).

The IMPACT busbar trunking system is available in configuration GAA with the neutral conductor's cross section equal to the phase cross-section and the protection conductor's cross section equal to 50% of the phase cross-section. Others configurations are available on request.



(GAA)

3P + N + FE/2 + PE (5P)

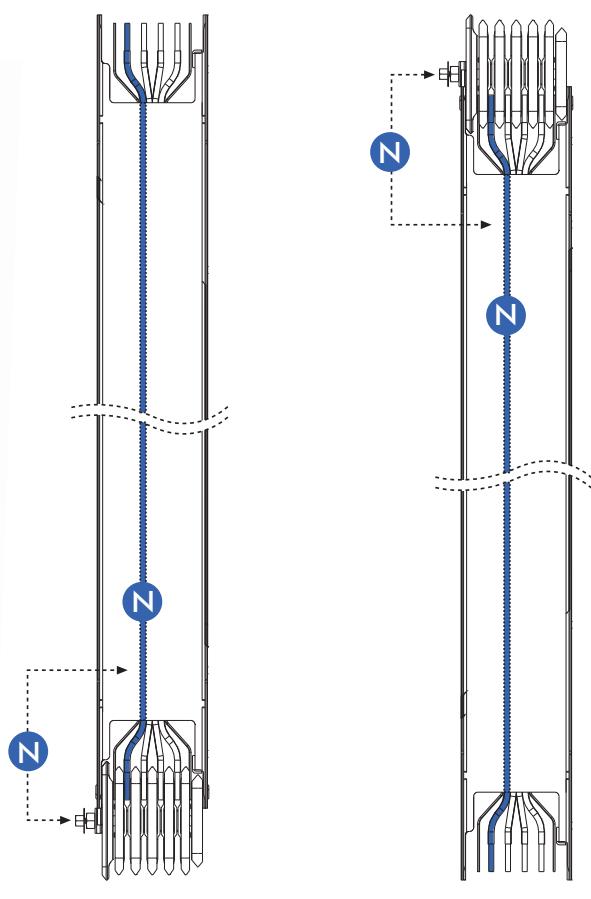
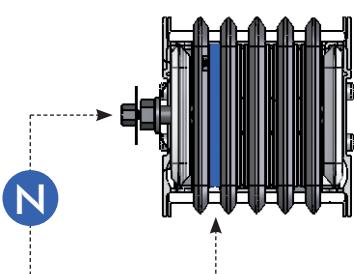
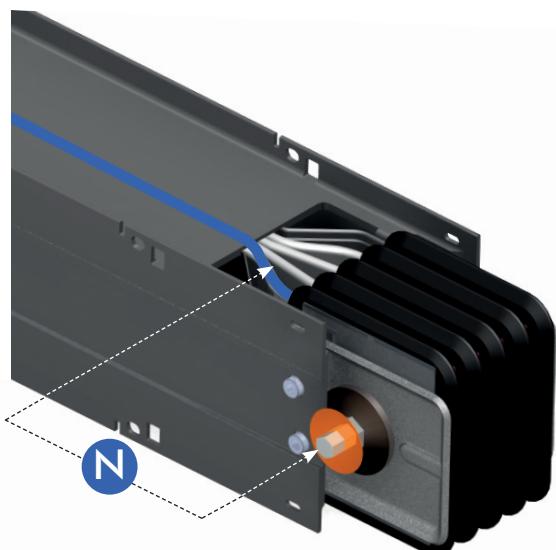
Neutral cross-section equal to 100% of the phase cross-section.
Protection cross-section (FE) (connected to the casing) equal to 50% of the phase cross-section.
Equivalent casing cross-section (PE) greater than 100% of the phase cross-section.

Technical data see pg. 92-93

IN THE IMPACT SERIES, THE NEUTRAL COINCIDES WITH THE BOLT SIDE IN THE JOINT MONOBLOCK.

The active conductors N/L1/L2/L3 of the IMPACT busbar system, even though they have equal cross-sections, they are fixed in the trunking units (straight elements, elbows etc.) with an unique position and identification. As a result, the neutral is always set according to the phases sequence N/L1/L2/L3, on the same side of the conductor where the joint monoblock bolt head is. This position is bent and maintained by the joint system between the two units (see page 98) that guarantees the order of the phase sequence from the beginning until the end of the line with a mechanical connection.

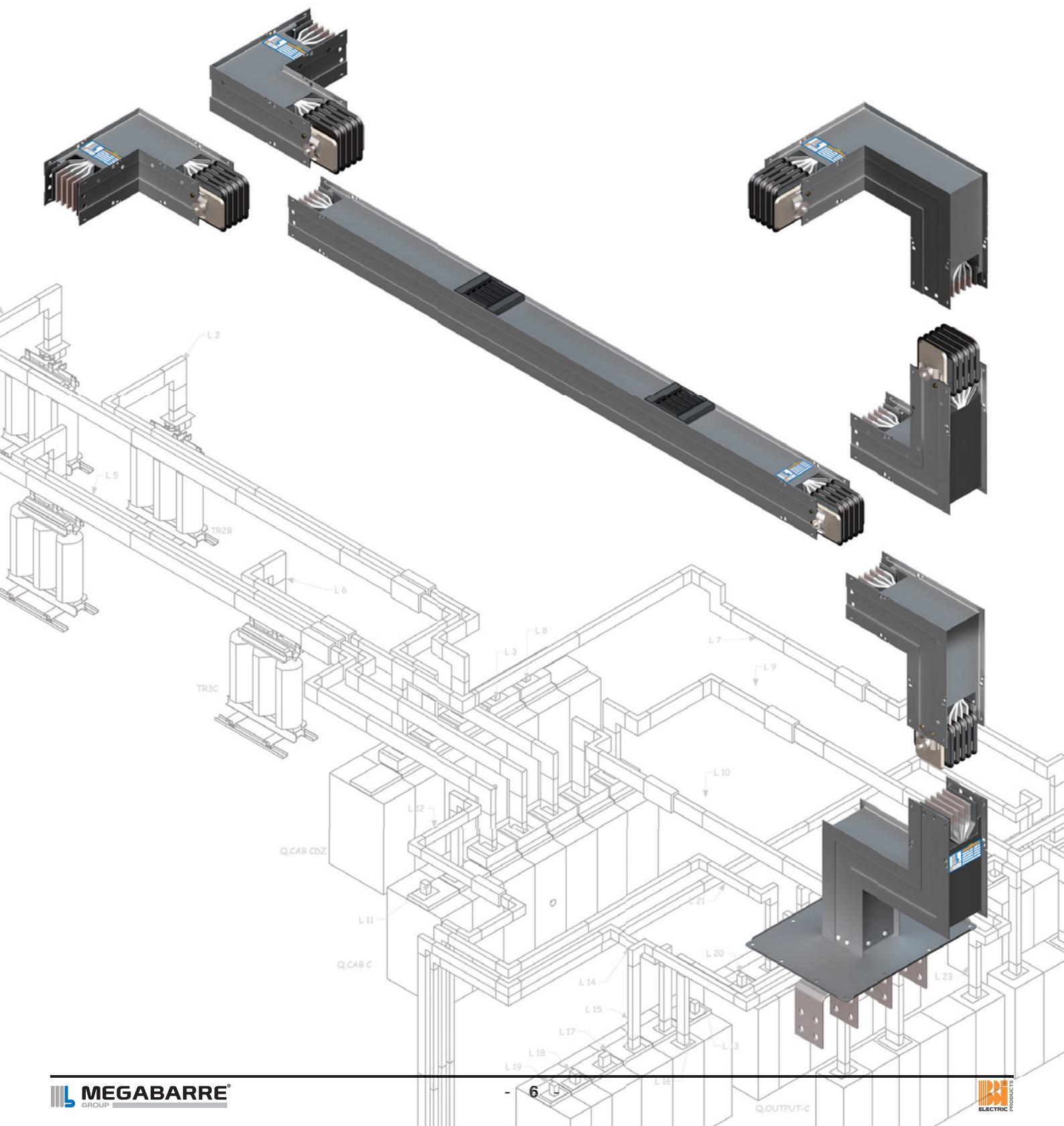
PHASE SEQUENCE/Ne/Fe



5P → Fe N L1 L2 L3

5P → Fe N L1 L2 L3

Straight trunking lengths, elbows, double elbows etc... are used for transport and electrical energy distribution allowing any kind of run, according to the equipment characteristics and to the room and/or to the buildings characteristics.



The continuous electrical systems evolution has transformed the traditional view of busbar trunking systems. At the beginning, it was used for high power transport but now also for electric energy distribution. One of the applications is in offices and residential buildings rising mains (skyscrapers) for energy distribution on various floors. The Impact line provides a large range of components and accessories to satisfy high-rise buildings applications. Our technical department is at your disposal to give technical support for correct application of components and/or accessories.



End cover unit (see pag. 74)

Distribution straight trunking unit with tap-off facilities on one side (see pag. 22)

Fire barrier (see pag. 76)

Joint cover (see pag. 75)

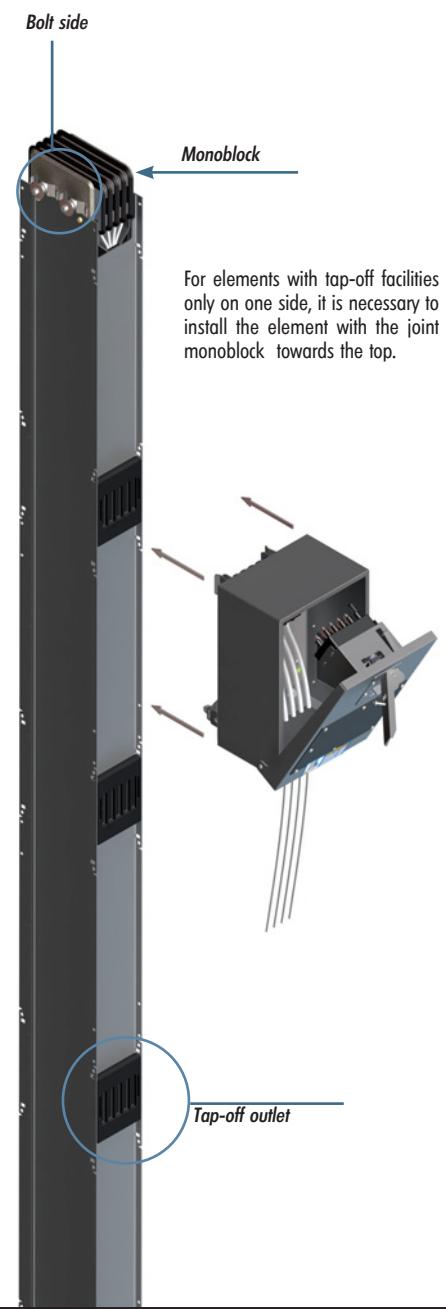
Tap-off (see pag. 63)

Fixing and suspension bracket for vertical elements (see pag. 84)

Fixing and suspension bracket for vertical elements (see pag. 82)

Feeder unit (see pag. 52)

In order to have tap-off units with cable exit on the bottom, it is necessary to install the element with the Neutral on the left (monoblock bolt on the left side of the conductor)



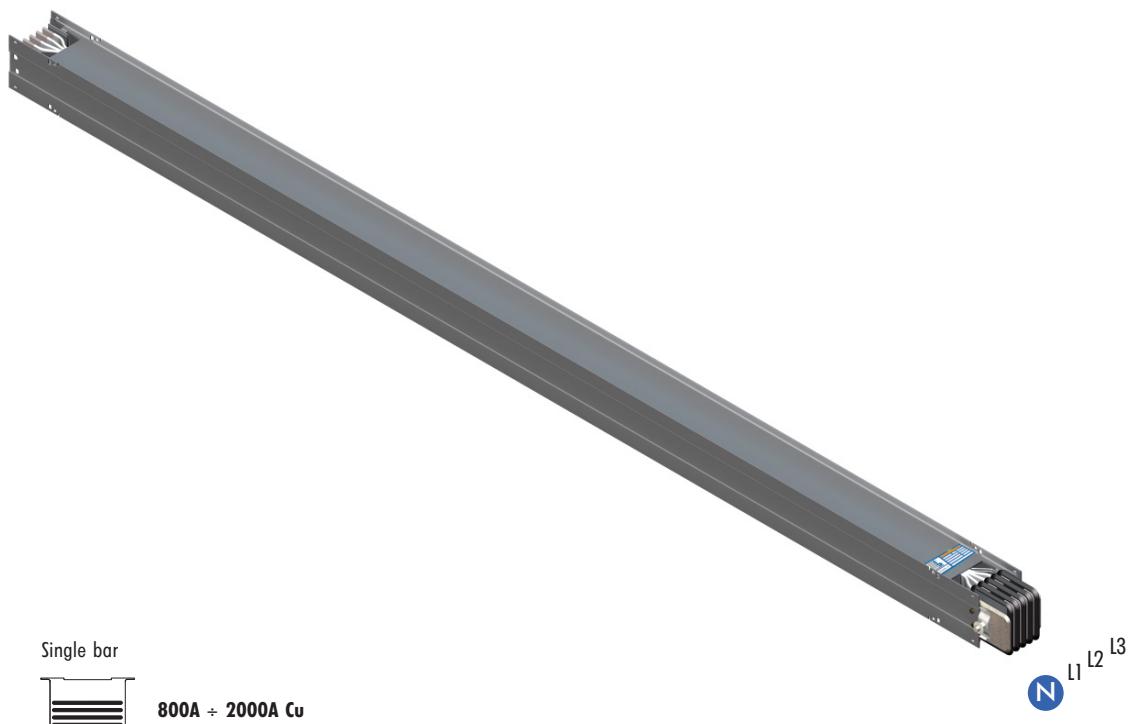
For elements with tap-off facilities only on one side, it is necessary to install the element with the joint monoblock towards the top.

Technical data see pg. 87

STRAIGHT TRUNKING ELEMENT - FEEDER

A transport straight trunking element is used for electric power transport. It is available in 3000 mm standard length or special dimensions on request (starting from 600mm) and supplied with the monoblock already installed. Installing the tap-off unit on the junction with the system not energized, it can also be used as a distribution unit.

Cu	800A	1000A	1250A	1600A	2000A	2500A
L=3000	ISC08A01GAA	ISC10A01GAA	ISC13A01GAA	ISC16A01GAA	ISC20A01GAA	ISC25A01GAA
L=600÷2999	ISC08A11GAA	ISC10A11GAA	ISC13A11GAA	ISC16A11GAA	ISC20A11GAA	ISC25A11GAA



Single bar

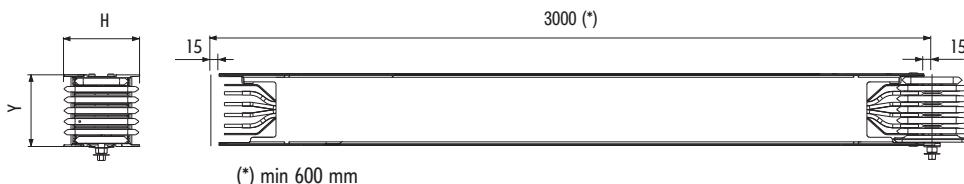


800A ÷ 2000A Cu

Double bar



Single bar
800A ÷ 2000A Cu



<i>i</i> dimensions	
(H)	Cu
	mm
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

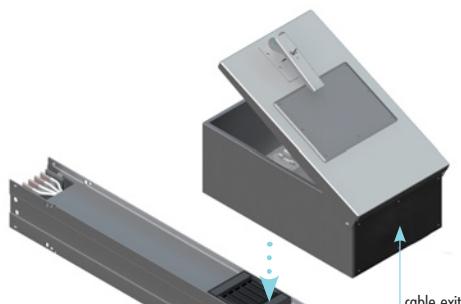
(Y)	5P
GAA	mm
	154

Technical data see pg. 85

The straight trunking element for distribution is used for electrical energy distribution by using tap-off units even when the system is energized. The standard version has 4 tap-off facilities (2 on each side), along a 3000 mm standard length.

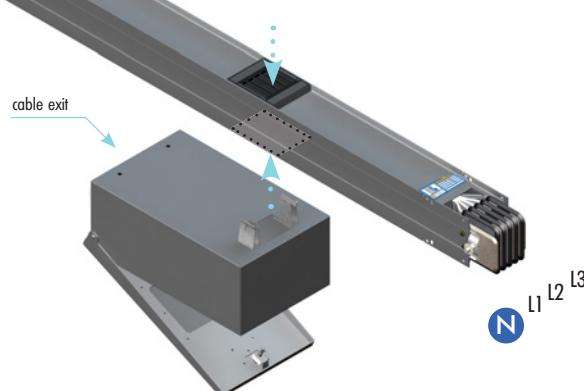
The non standard length elements with a number of special tap-off facilities (max up to 4 per side) are realisable after evaluation of our technical department. Each tap-off facility has an automatic device to restore the IP protection degree when the tap-off facility is disconnected.

Cu	800A	1000A	1250A	1600A	2000A	2500A
L = 3000						
2+2 Tap Std.	ISC08A30GAA	ISC10A30GAA	ISC13A30GAA	ISC16A30GAA	ISC20A30GAA	ISC25A30GAA
2+2 Tap Std.	ISC08A30GAA	ISC10A30GAA	ISC13A30GAA	ISC16A30GAA	ISC20A30GAA	ISC25A30GAA
2+2 Tap Std.	ISC08A30GAA	ISC10A30GAA	ISC13A30GAA	ISC16A30GAA	ISC20A30GAA	ISC25A30GAA
L = 2001÷3000						
3+3 Tap Sp. **	ISC08A22GAA	ISC10A22GAA	ISC13A22GAA	ISC16A22GAA	ISC20A22GAA	ISC25A22GAA
2+2 Tap *	ISC08A24GAA	ISC10A24GAA	ISC13A24GAA	ISC16A24GAA	ISC20A24GAA	ISC25A24GAA
1+1 Tap *	ISC08A25GAA	ISC10A25GAA	ISC13A25GAA	ISC16A25GAA	ISC20A25GAA	ISC25A25GAA
L = 1501÷2000						
2+2 Tap *	ISC08A26GAA	ISC10A26GAA	ISC13A26GAA	ISC16A26GAA	ISC20A26GAA	ISC25A26GAA
1+1 Tap *	ISC08A27GAA	ISC10A27GAA	ISC13A27GAA	ISC16A27GAA	ISC20A27GAA	ISC25A27GAA
L = 1500						
1+1 Tap *	ISC08A28GAA	ISC10A28GAA	ISC13A28GAA	ISC16A28GAA	ISC20A28GAA	ISC25A28GAA
SPECIAL						
4+4 Tap *	ISC08A29GAA	ISC10A29GAA	ISC13A29GAA	ISC16A29GAA	ISC20A29GAA	ISC25A29GAA



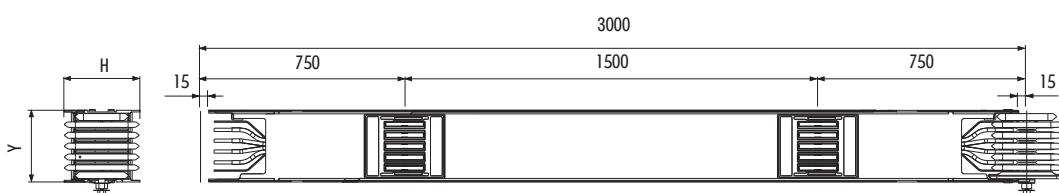
(*) For elements with special number or special outlet spacings, please contact our technical department.

(**) With 3+3 tap-off the max lenght available is 2950 mm.



i dimensions

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312



Y 5P

GAA
154

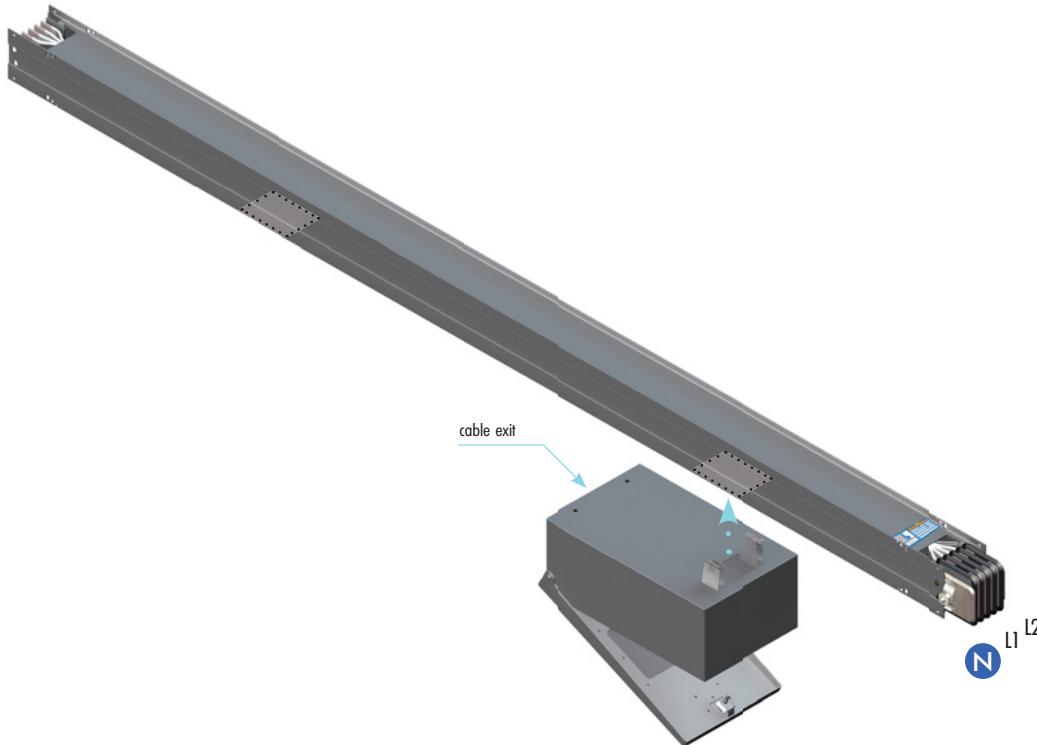
DISTRIBUTION STRAIGHT TRUNKING ELEMENT WITH TAP-OFF UNITS ONLY ON ONE SIDE

Technical data see pg. 87

The distribution straight trunking element is used for electrical energy distribution using tap-off facilities that can be installed even when the system is energized. The standard version has 2 tap-off facilities on only one side, along a 3000mm standard length.

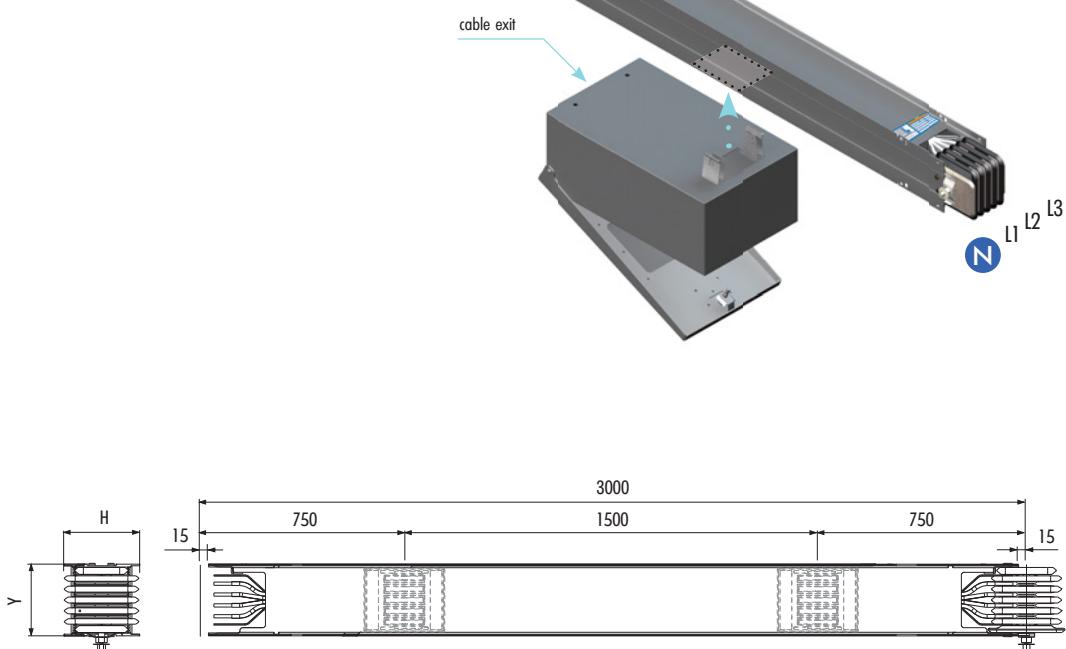
The non standard length elements with a number of special tap-off facilities (max up to 4 on one side) are realisable after evaluation of our technical department. Each tap-off facility has an automatic device to restore the IP protection degree when the tap-off facility is disconnected.

Cu	800A	1000A	1250A	1600A	2000A	2500A
L = 3000						
3 Tap Standard	ISC08A33GAA	ISC10A33GAA	ISC13A33GAA	ISC16A33GAA	ISC20A33GAA	ISC25A33GAA
2 Tap Standard	ISC08A40GAA	ISC10A40GAA	ISC13A40GAA	ISC16A40GAA	ISC20A40GAA	ISC25A40GAA
2 Tap Standard	ISC08A40GAA	ISC10A40GAA	ISC13A40GAA	ISC16A40GAA	ISC20A40GAA	ISC25A40GAA
2 Tap Standard	ISC08A40GAA	ISC10A40GAA	ISC13A40GAA	ISC16A40GAA	ISC20A40GAA	ISC25A40GAA
L = 2001÷3000						
3 Tap Special **	ISC08A32GAA	ISC10A32GAA	ISC13A32GAA	ISC16A32GAA	ISC20A32GAA	ISC25A32GAA
2 Tap *	ISC08A34GAA	ISC10A34GAA	ISC13A34GAA	ISC16A34GAA	ISC20A34GAA	ISC25A34GAA
1 Tap *	ISC08A35GAA	ISC10A35GAA	ISC13A35GAA	ISC16A35GAA	ISC20A35GAA	ISC25A35GAA
L = 1501÷2000						
2 Tap *	ISC08A36GAA	ISC10A36GAA	ISC13A26GAA	ISC16A36GAA	ISC20A36GAA	ISC25A36GAA
1 Tap *	ISC08A37GAA	ISC10A37GAA	ISC13A27GAA	ISC16A37GAA	ISC20A37GAA	ISC25A37GAA
L = 1500						
1 Tap *	ISC08A38GAA	ISC10A38GAA	ISC13A28GAA	ISC16A38GAA	ISC20A38GAA	ISC25A38GAA
SPECIAL						
4 Tap *	ISC08A39GAA	ISC10A39GAA	ISC13A39GAA	ISC16A39GAA	ISC20A39GAA	ISC25A39GAA



(*) For elements with special number or special outlet spacings, please contact our technical department.

(**) With 3 tap-off the max lenght available is 2950 mm.



i dimensions

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

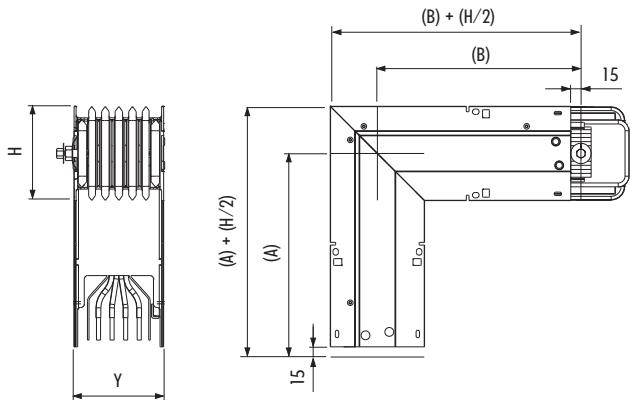
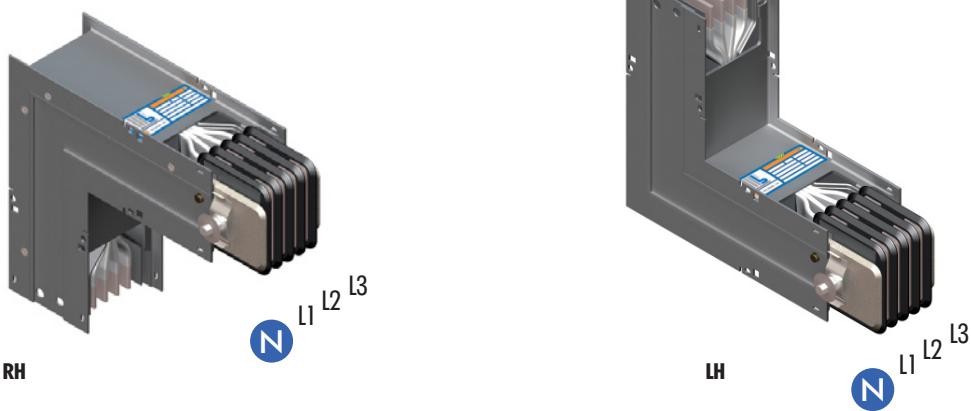
5P

GAA
154

Technical data see pg. 85

This element enables the busbar trunking system to achieve all possible layouts. Both standard and special lengths are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Standard						
RH	ISC08B01GAA	ISC10B01GAA	ISC13B01GAA	ISC16B01GAA	ISC20B01GAA	ISC25B01GAA
LH	ISC08B02GAA	ISC10B02GAA	ISC13B02GAA	ISC16B02GAA	ISC20B02GAA	ISC25B02GAA
Special						
RH	ISC08B11GAA	ISC10B11GAA	ISC13B11GAA	ISC16B11GAA	ISC20B11GAA	ISC25B11GAA
LH	ISC08B12GAA	ISC10B12GAA	ISC13B12GAA	ISC16B12GAA	ISC20B12GAA	ISC25B12GAA



dimensions

	(A)	(B)	(H)	Cu
800A-2000A Cu	std 300	300	800A	139
	min 300	300	1000A	139
	max 899	899	1250A	174
2500A Cu	std 450	450	1600A	204
	min 450	450	2000A	224
	max 1049	1049	2500A	312

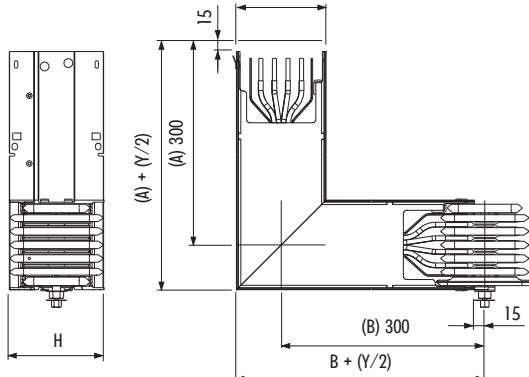
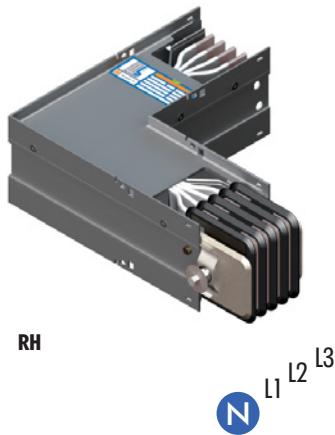
(Y)	5P
GAA	
mm	
154	

DIHEDRAL ELBOW

Technical data see pg. 87

This element enables the busbar trunking system to achieve all possible layouts.
Both standard and special length are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Standard						
RH	ISC08C01GAA	ISC10C01GAA	ISC13C01GAA	ISC16C01GAA	ISC20C01GAA	ISC25C01GAA
LH	ISC08C02GAA	ISC10C02GAA	ISC13C02GAA	ISC16C02GAA	ISC20C02GAA	ISC25C02GAA
Special						
RH	ISC08C11GAA	ISC10C11GAA	ISC13C11GAA	ISC16C11GAA	ISC20C11GAA	ISC25C11GAA
LH	ISC08C12GAA	ISC10C12GAA	ISC13C12GAA	ISC16C12GAA	ISC20C12GAA	ISC25C12GAA


i dimensions

	(A)	(B)
800A÷2500A Cu	std 300	300
	min 280	280
	max 849	849

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

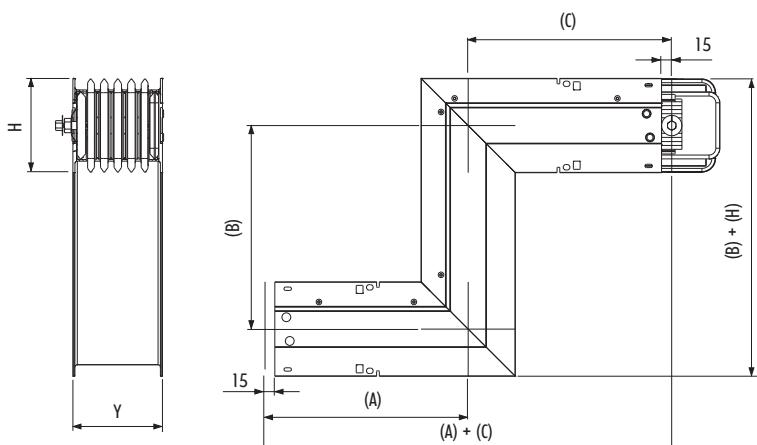
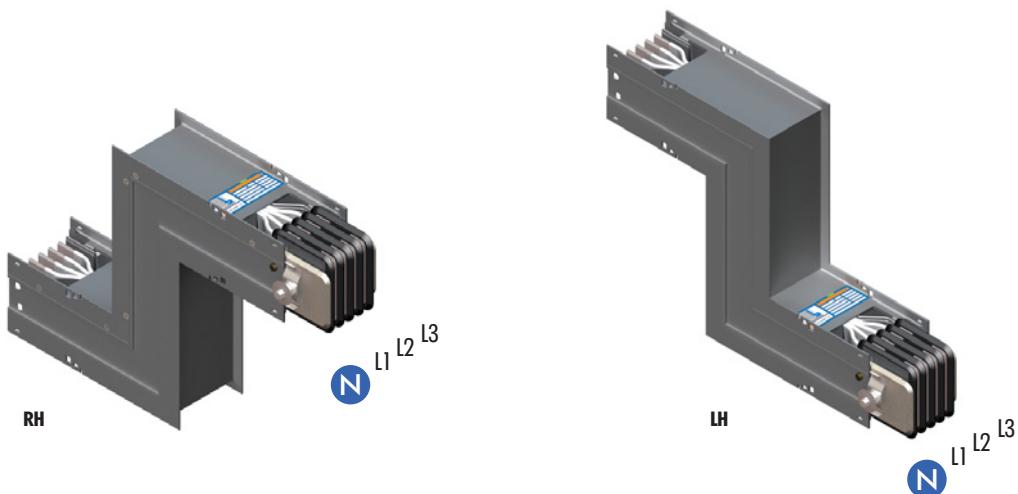
(Y)	5P
GAA	
mm	

154

Technical data see pg. 85

This element enables the busbar trunking system to achieve all possible layouts.
Both standard and special length are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
RH	ISC08D11GAA	ISC10D11GAA	ISC13D11GAA	ISC16D11GAA	ISC20D11GAA	ISC25D11GAA
LH	ISC08D12GAA	ISC10D12GAA	ISC13D12GAA	ISC16D12GAA	ISC20D12GAA	ISC25D12GAA



dimensions

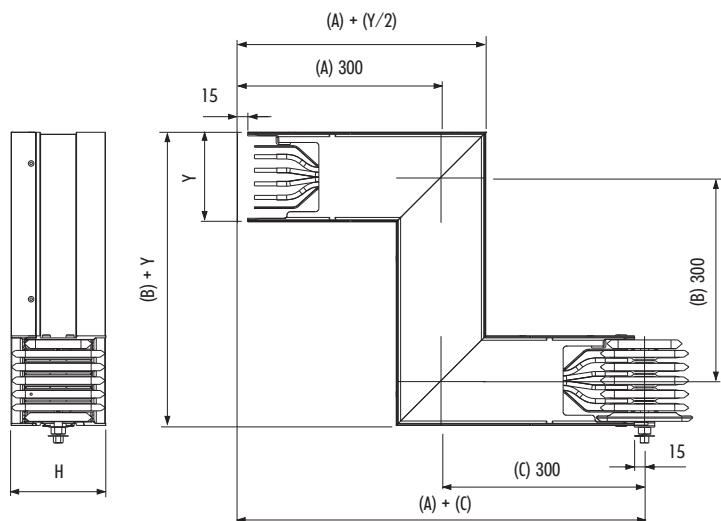
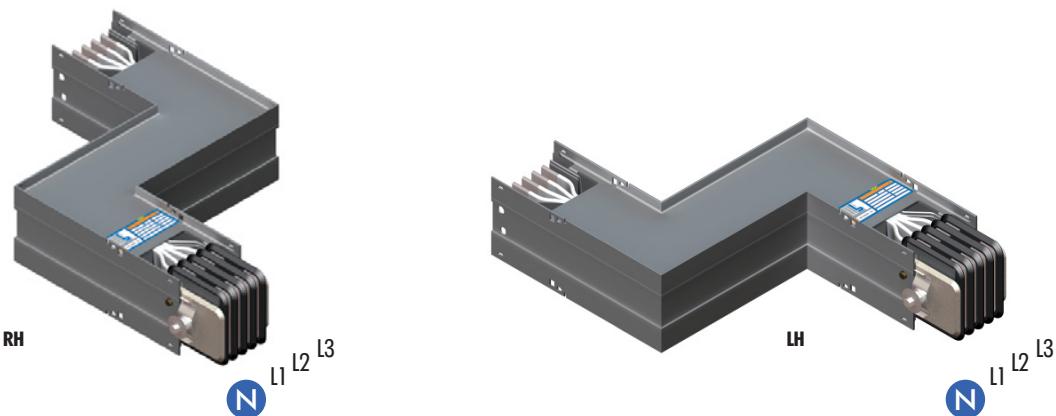
	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std. 300	300	300	800A	139
	min. 300	50	300	1000A	139
	max 899	599	899	1250A	174
2500A Cu	std. 450	450	450	1600A	204
	min. 450	50	450	2000A	224
	max 1049	899	1049	2500A	312

(Y)	5P
GAA	
mm	
154	

Technical data see pg. 87

This element enables the busbar trunking system to achieve all possible layouts.
Both standard and special length are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
RH	ISC08E11GAA	ISC10E11GAA	ISC13E11GAA	ISC16E11GAA	ISC20E11GAA	ISC25E11GAA
LH	ISC08E12GAA	ISC10E12GAA	ISC13E12GAA	ISC16E12GAA	ISC20E12GAA	ISC25E12GAA



dimensions

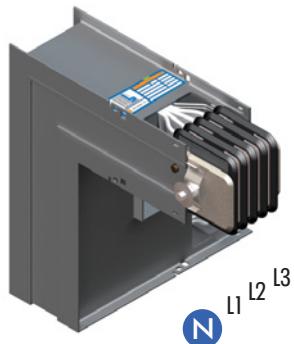
	(A)	(B)	(C)	(H)	Cu
800A+2500A Cu	std 300	300	300		mm
	min 260	60	260		mm
	max 849	499	849		mm

(Y)	5P
GAA	
mm	
154	

Technical data see pg. 85

This element enables the busbar trunking system to achieve all possible layouts. Both standard than special length are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08F11GAA	ISC10F11GAA	ISC13F11GAA	ISC16F11GAA	ISC20F11GAA	ISC25F11GAA
Type 2	ISC08F12GAA	ISC10F12GAA	ISC13F12GAA	ISC16F12GAA	ISC20F12GAA	ISC25F12GAA
Type 3	ISC08F13GAA	ISC10F13GAA	ISC13F13GAA	ISC16F13GAA	ISC20F13GAA	ISC25F13GAA
Type 4	ISC08F14GAA	ISC10F14GAA	ISC13F14GAA	ISC16F14GAA	ISC20F14GAA	ISC25F14GAA



Type 1



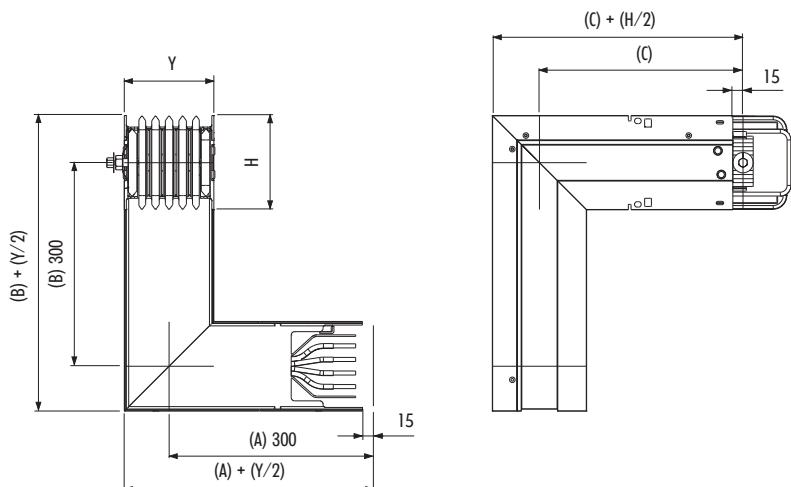
Type 2



Type 3



Type 4



dimensions

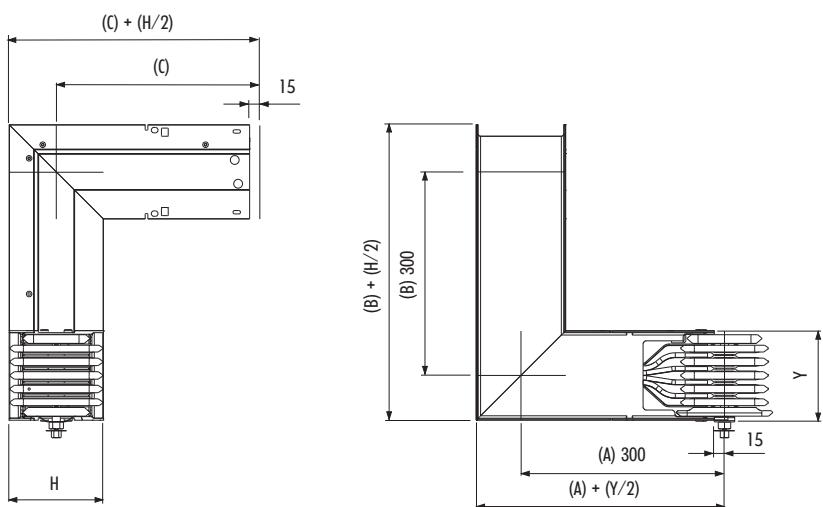
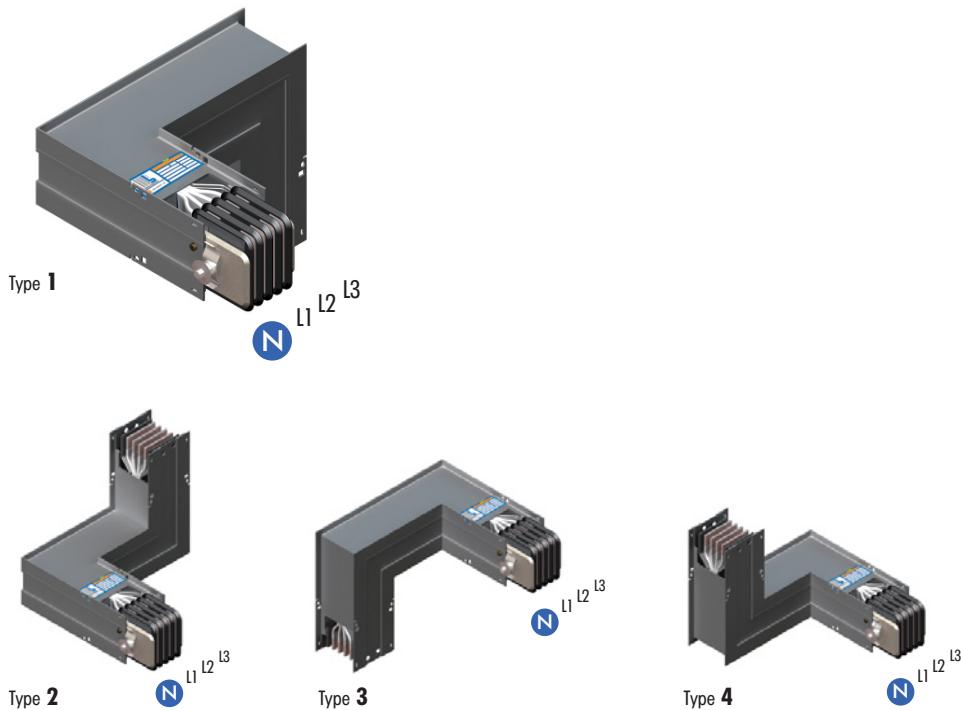
	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std. 300	300	300	800A	139
	min. 260	210	300	1000A	139
	max 849	549	899	1250A	174
2500A Cu	std. 300	300	450	1600A	204
	min. 260	320	450	2000A	224
	max 849	699	1049	2500A	312

(Y)	5P
GAA	
mm	
154	

Technical data see pg. 87

This element enables the busbar trunking system to achieve all possible layouts.
Both standard and special length are available according to the installations requirements.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08G11GAA	ISC10G11GAA	ISC13G11GAA	ISC16G11GAA	ISC20G11GAA	ISC25G11GAA
Type 2	ISC08G12GAA	ISC10G12GAA	ISC13G12GAA	ISC16G12GAA	ISC20G12GAA	ISC25G12GAA
Type 3	ISC08G13GAA	ISC10G13GAA	ISC13G13GAA	ISC16G13GAA	ISC20G13GAA	ISC25G13GAA
Type 4	ISC08G14GAA	ISC10G14GAA	ISC13G14GAA	ISC16G14GAA	ISC20G14GAA	ISC25G14GAA



i dimensions

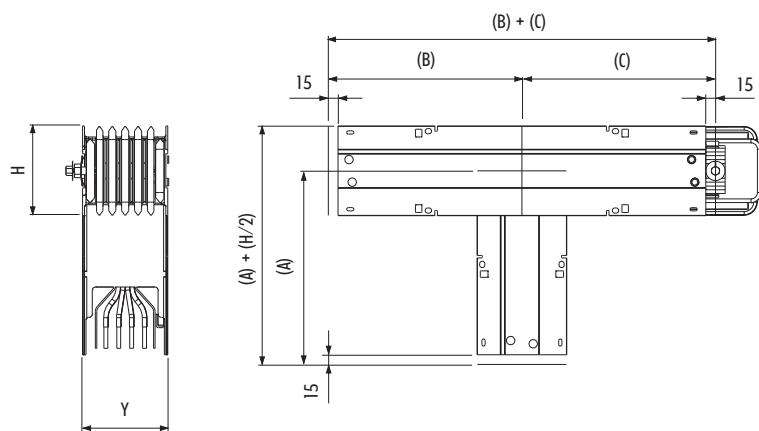
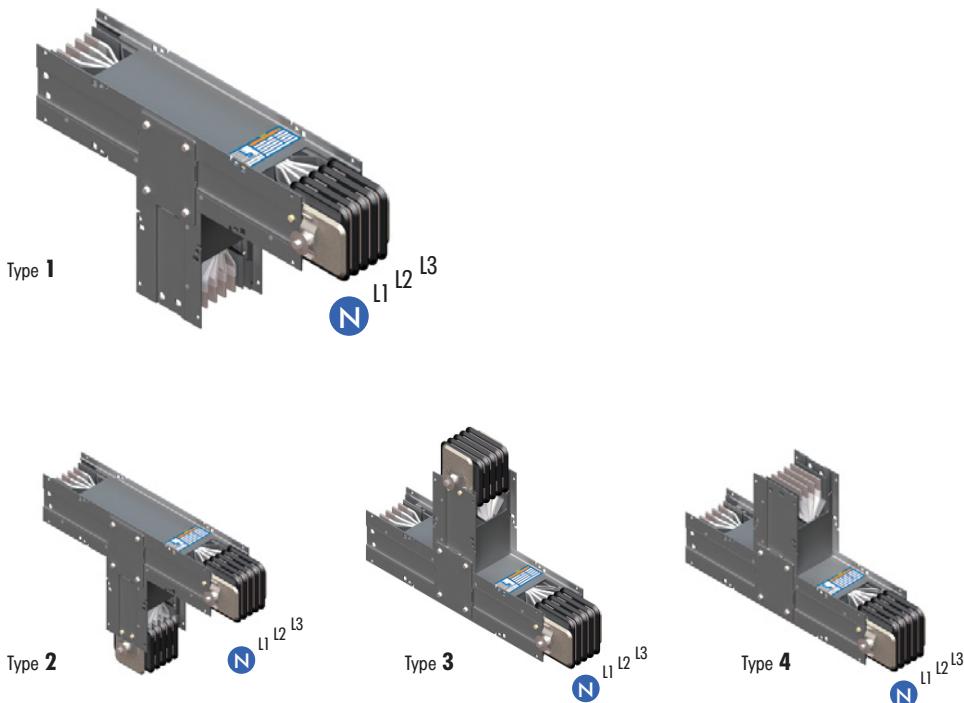
	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std. 300	300	300	800A	139
	min. 260	210	300	1000A	139
	max 849	549	899	1250A	174
2500A Cu	std. 300	300	450	1600A	204
	min. 260	320	450	2000A	224
	max 849	699	1049	2500A	312

(Y)	5P
GAA	
mm	
154	

Technical data see pg. 85

This element enables the busbar trunking system to achieve all possible layouts.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08H11GAA	ISC10H11GAA	ISC13H11GAA	ISC16H11GAA	ISC20H11GAA	ISC25H11GAA
Type 2	ISC08H12GAA	ISC10H12GAA	ISC13H12GAA	ISC16H12GAA	ISC20H12GAA	ISC25H12GAA
Type 3	ISC08H13GAA	ISC10H13GAA	ISC13H13GAA	ISC16H13GAA	ISC20H13GAA	ISC25H13GAA
Type 4	ISC08H14GAA	ISC10H14GAA	ISC13H14GAA	ISC16H14GAA	ISC20H14GAA	ISC25H14GAA


i dimensions

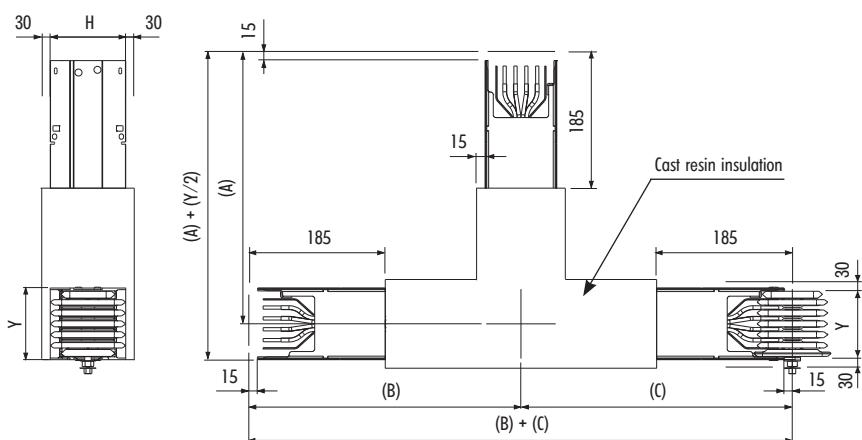
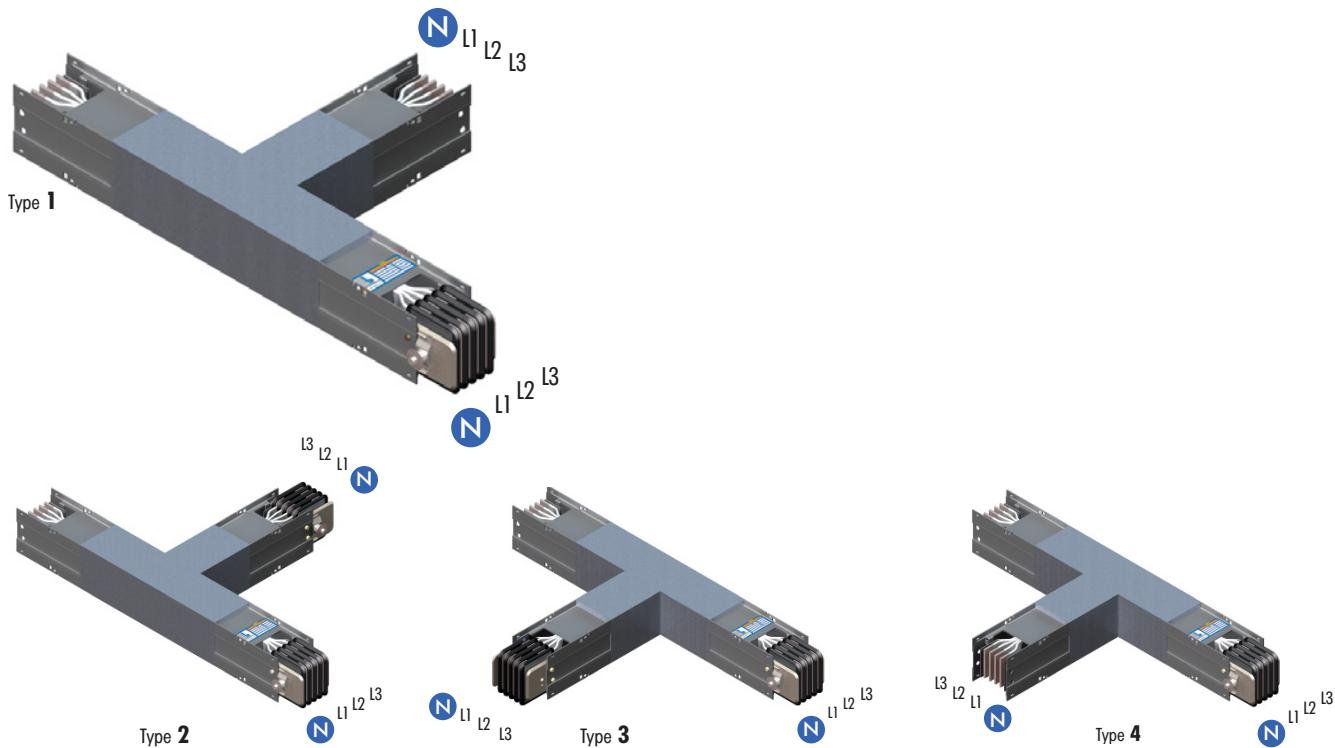
	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std	300	300	300	mm
2500A Cu	std	300	300	450	mm

(Y)	5P
GAA mm	154

Technical data see pg. 87

This element enables the busbar trunking system to achieve all possible layouts.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08I11GAA	ISC10I11GAA	ISC13I11GAA	ISC16I11GAA	ISC20I11GAA	ISC25I11GAA
Type 2	ISC08I12GAA	ISC10I12GAA	ISC13I12GAA	ISC16I12GAA	ISC20I12GAA	ISC25I12GAA
Type 3	ISC08I13GAA	ISC10I13GAA	ISC13I13GAA	ISC16I13GAA	ISC20I13GAA	ISC25I13GAA
Type 4	ISC08I14GAA	ISC10I14GAA	ISC13I14GAA	ISC16I14GAA	ISC20I14GAA	ISC25I14GAA



i dimensions

	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std	550	550	550	mm
2500A Cu	std	600	600	600	mm
(Y)	5P				
GAA					
mm					
154					

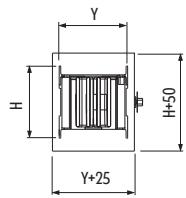
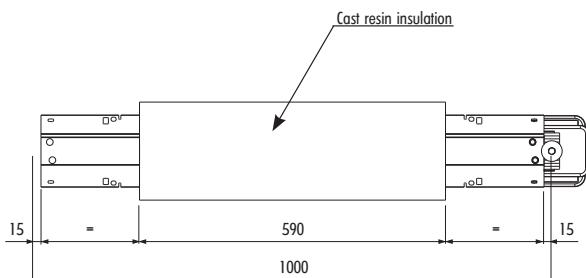
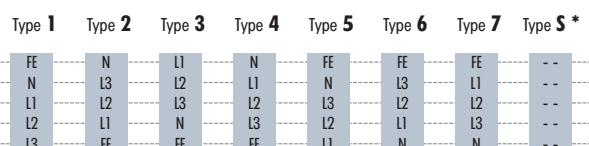
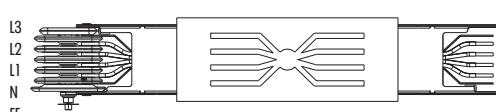
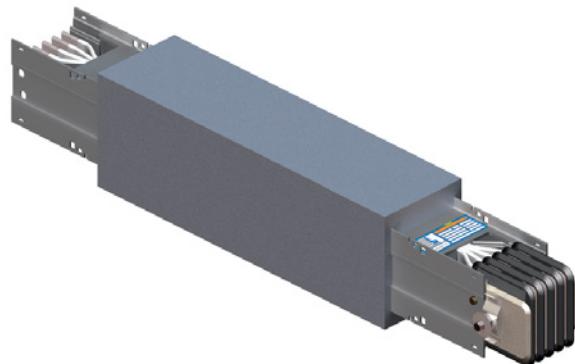
Technical data see pg. 85

The straight trunking element with phase transposition is used when the phase/neutral sequence at the beginning of a line does not match with the end of it. In this case, the use of this 1000 mm unit allows the transposition of the phases, the neutral and the earthing conductor according to the sequence required.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08X01GAA	ISC10X01GAA	ISC13X01GAA	ISC16X01GAA	ISC20X01GAA	ISC25X01GAA
Type 2	ISC08X02GAA	ISC10X02GAA	ISC13X02GAA	ISC16X02GAA	ISC20X02GAA	ISC25X02GAA
Type 3	ISC08X03GAA	ISC10X03GAA	ISC13X03GAA	ISC16X03GAA	ISC20X03GAA	ISC25X03GAA
Type 4	ISC08X04GAA	ISC10X04GAA	ISC13X04GAA	ISC16X04GAA	ISC20X04GAA	ISC25X04GAA
Type 5	ISC08X05GAA	ISC10X05GAA	ISC13X05GAA	ISC16X05GAA	ISC20X05GAA	ISC25X05GAA
Type 6	ISC08X06GAA	ISC10X06GAA	ISC13X06GAA	ISC16X06GAA	ISC20X06GAA	ISC25X06GAA
Type 7	ISC08X07GAA	ISC10X07GAA	ISC13X07GAA	ISC16X07GAA	ISC20X07GAA	ISC25X07GAA
Type S *	ISC08X0SGAA	ISC10X0SGAA	ISC13X0SGAA	ISC16X0SGAA	ISC20X0SGAA	ISC25X0SGAA



* For special versions, please contact our technical department.



(H) dimensions	
(H)	Cu mm
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y) 5P GAA mm	
5P	GAA mm

SECTION ISOLATOR

Technical data see pg. 87

These elements are used when it is necessary to divide or electrically protect parts of the busbar.
The standard version has a switch-disconnector and a fuse holder (fuses not included).

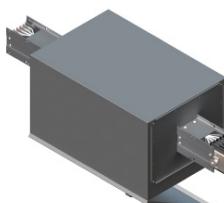
Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08K11GAA	ISC10K11GAA	ISC13K11GAA	ISC16K11GAA	ISC20K11GAA	ISC25K11GAA
Type 2	ISC08K12GAA	ISC10K12GAA	ISC13K12GAA	ISC16K12GAA	ISC20K12GAA	ISC25K12GAA
Type 3	ISC08K13GAA	ISC10K13GAA	ISC13K13GAA	ISC16K13GAA	ISC20K13GAA	ISC25K13GAA
Type 4	ISC08K14GAA	ISC10K14GAA	ISC13K14GAA	ISC16K14GAA	ISC20K14GAA	ISC25K14GAA
Type 5	ISC08K15GAA	ISC10K15GAA	ISC13K15GAA	ISC16K15GAA	ISC20K15GAA	ISC25K15GAA
Type 6	ISC08K16GAA	ISC10K16GAA	ISC13K16GAA	ISC16K16GAA	ISC20K16GAA	ISC25K16GAA
Type 7	ISC08K17GAA	ISC10K17GAA	ISC13K17GAA	ISC16K17GAA	ISC20K17GAA	ISC25K17GAA
Type 8	ISC08K18GAA	ISC10K18GAA	ISC13K18GAA	ISC16K18GAA	ISC20K18GAA	ISC25K18GAA



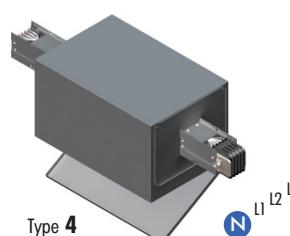
Type 1



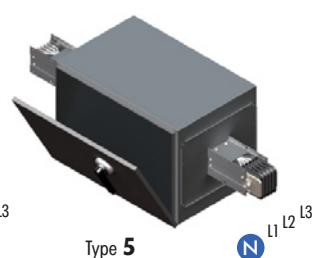
Type 2



Type 3



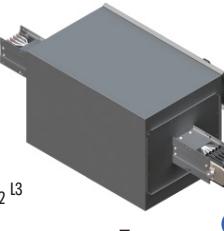
Type 4



Type 5



Type 6



Type 7



Type 8

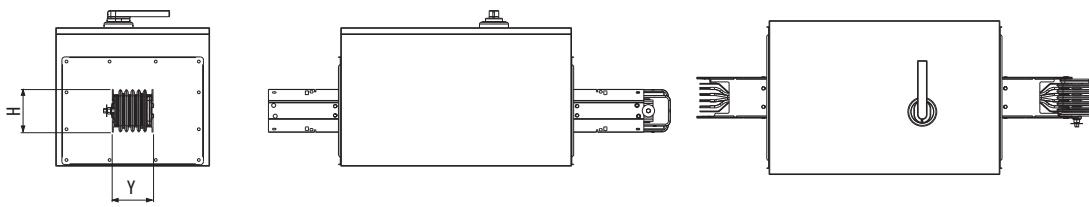
dimensions

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

5P

GAA
mm

154

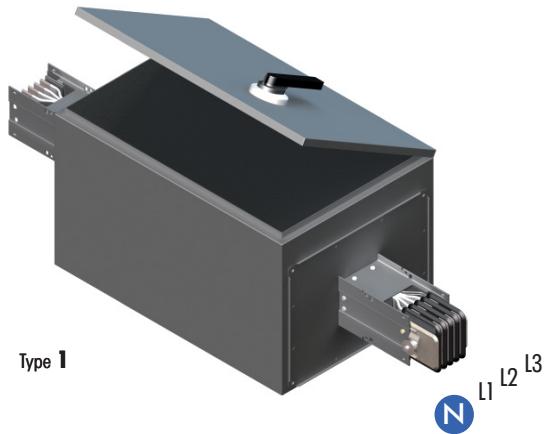


Technical data see pg. 85

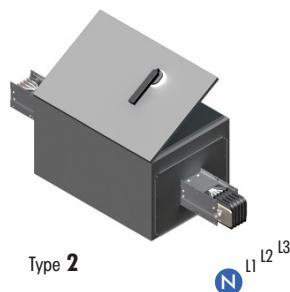
With switch-disconnector and fuse-holder

This unit is used to connect two busbar trunking runs having different nominal ratings.

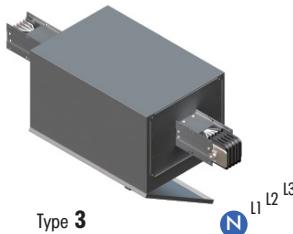
Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08L11GAA	ISC10L11GAA	ISC13L11GAA	ISC16L11GAA	ISC20L11GAA	ISC25L11GAA
Type 2	ISC08L12GAA	ISC10L12GAA	ISC13L12GAA	ISC16L12GAA	ISC20L12GAA	ISC25L12GAA
Type 3	ISC08L13GAA	ISC10L13GAA	ISC13L13GAA	ISC16L13GAA	ISC20L13GAA	ISC25L13GAA
Type 4	ISC08L14GAA	ISC10L14GAA	ISC13L14GAA	ISC16L14GAA	ISC20L14GAA	ISC25L14GAA
Type 5	ISC08L15GAA	ISC10L15GAA	ISC13L15GAA	ISC16L15GAA	ISC20L15GAA	ISC25L15GAA
Type 6	ISC08L16GAA	ISC10L16GAA	ISC13L16GAA	ISC16L16GAA	ISC20L16GAA	ISC25L16GAA
Type 7	ISC08L17GAA	ISC10L17GAA	ISC13L17GAA	ISC16L17GAA	ISC20L17GAA	ISC25L17GAA
Type 8	ISC08L18GAA	ISC10L18GAA	ISC13L18GAA	ISC16L18GAA	ISC20L18GAA	ISC25L18GAA



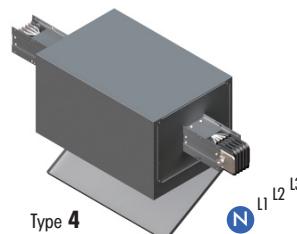
Type 1



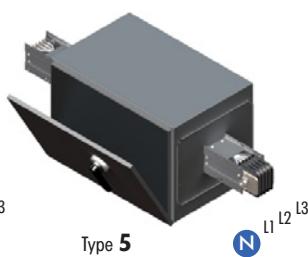
Type 2



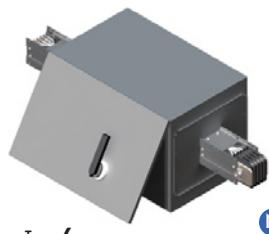
Type 3



Type 4



Type 5



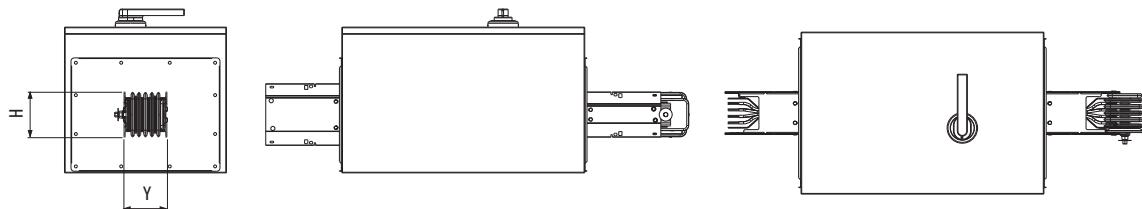
Type 6



Type 7



Type 8

*i* dimensions

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y) 5P

GAA
mm

154

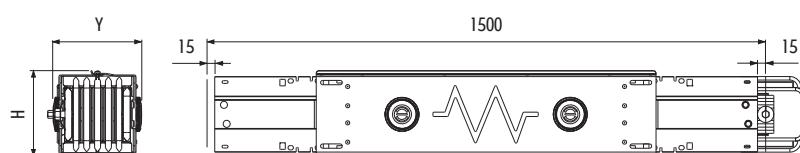
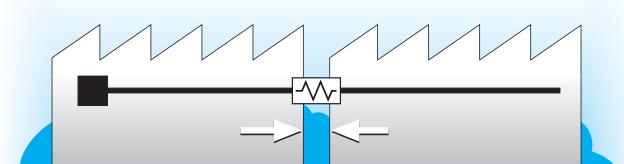
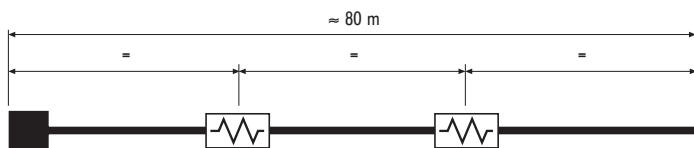
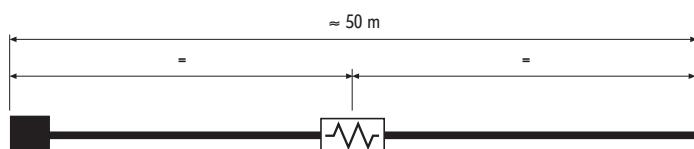
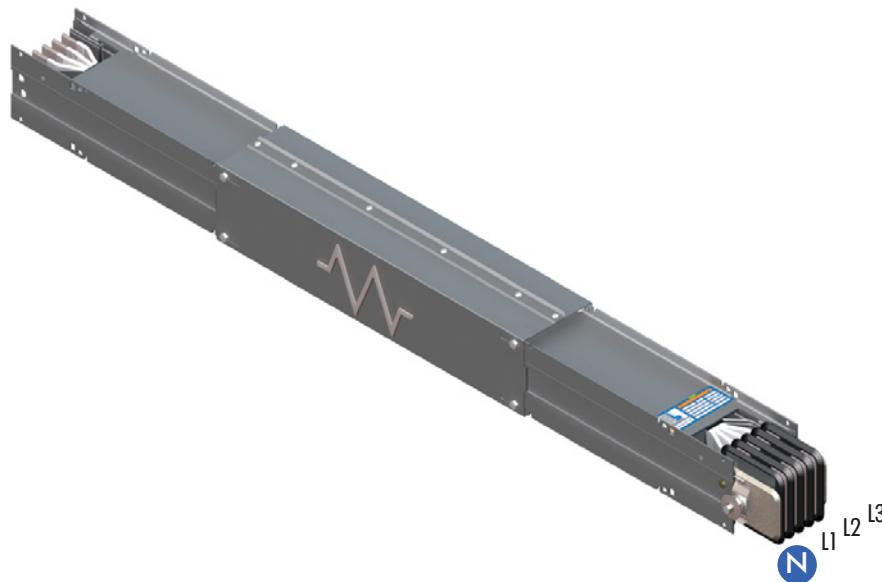
Technical data see pg. 87

This unit, standard length 1500 mm, is used to absorb the movement along the axial direction of the busbar trunking due to thermal expansion of the system.

Expansion unit should be installed:

- Close to a building expansion joint
- Straight busbar runs longer than 40÷50m (every 20÷25m)
 - (ex - 50 m busbar run = 1 expansion unit in the middle)
 - (ex - 80 m busbar run = 2 expansion units every 25÷30m)

Cu	800A	1000A	1250A	1600A	2000A	2500A
	ISC08J01GAA	ISC10J01GAA	ISC13J01GAA	ISC16J01GAA	ISC20J01GAA	ISC25J01GAA



dimensions

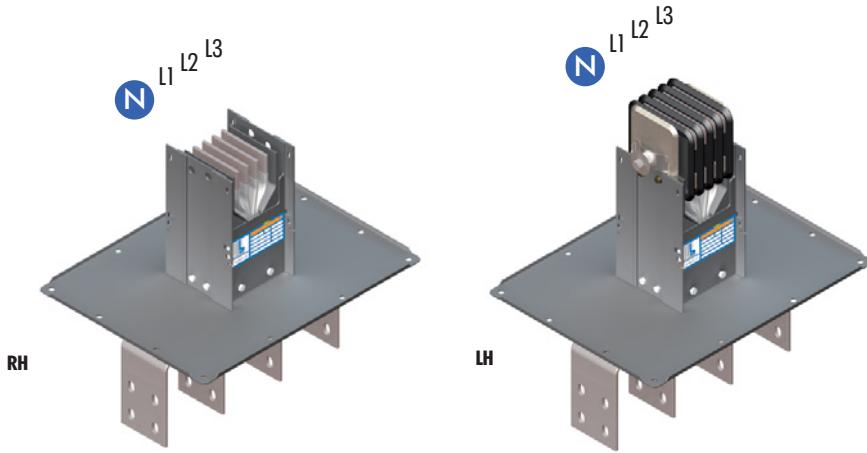
(H)	Cu
	mm
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y)	5P
	GAA
	mm
	154

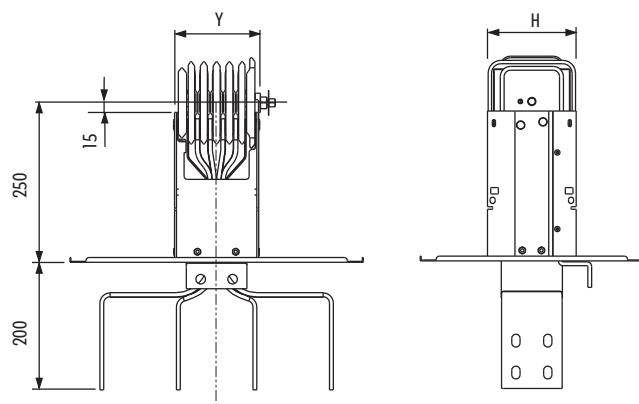
Technical data see pg. 87

This unit is used to prepare the connection between the busbar trunking runs and the switchboard or the transformer.

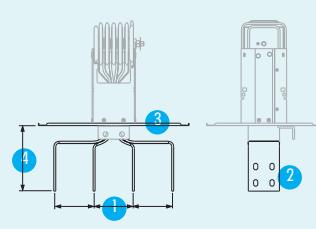
Cu	800A	1000A	1250A	1600A	2000A	2500A
Standard						
RH	ISC08M01GAA	ISC10M01GAA	ISC13M01GAA	ISC16M01GAA	ISC20M01GAA	ISC25M01GAA
LH	ISC08M02GAA	ISC10M02GAA	ISC13M02GAA	ISC16M02GAA	ISC20M02GAA	ISC25M02GAA
Special *						
RH	ISC08M11GAA	ISC10M11GAA	ISC13M11GAA	ISC16M11GAA	ISC20M11GAA	ISC25M11GAA
LH	ISC08M12GAA	ISC10M12GAA	ISC13M12GAA	ISC16M12GAA	ISC20M12GAA	ISC25M12GAA

**N.B.**

For flange and bar dimensions, please look at pg. 40-41



- * The terminal unit can be supplied in special version with:
 - 1 - Distance between bars
 - 2 - Hole positions
 - 3 - Flange dimensions
 - 4 - Bars length different from standard



(H) dimensions	
(H)	Cu mm
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y) 5P GAA dimensions	
(Y)	GAA mm
5P	154

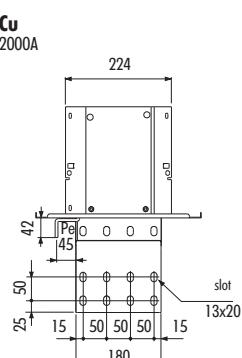
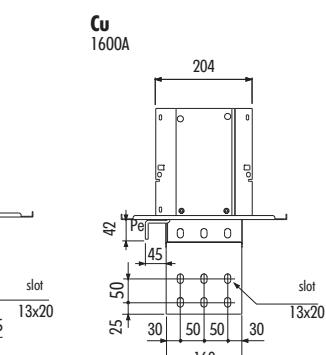
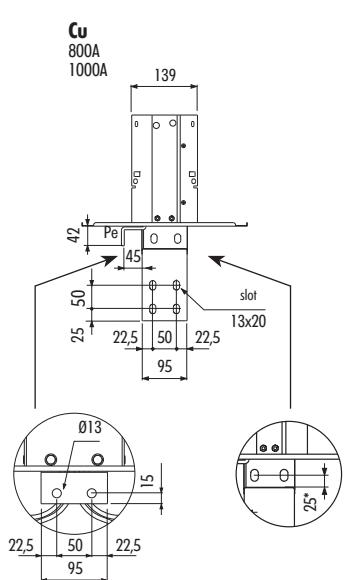
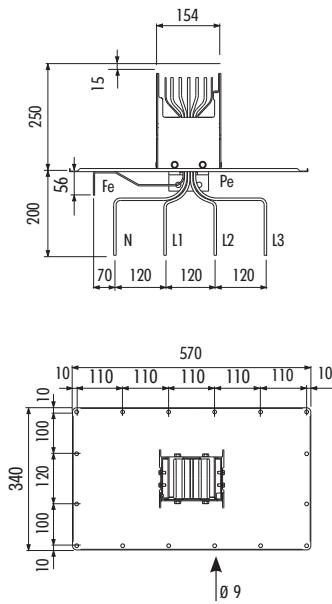
The terminal units of the IMPACT trunking system are provided with the necessary bar spacings, hole position and flange dimension in order to allow the connection to various devices to be energized (switch-board, transformer etc...)

Special dimensions are achievable on request according to agreement with our technical department.

Cu 800A ÷ 2500A

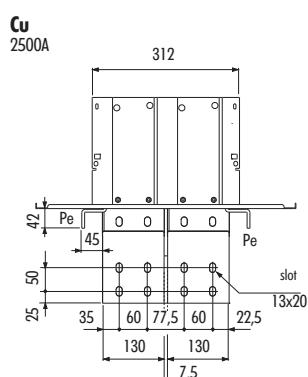
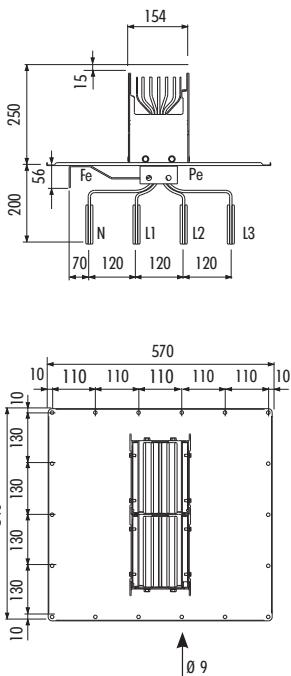
(GAA) ■

(5P) 3P + N + FE/2 + PE



(GAA) ▪

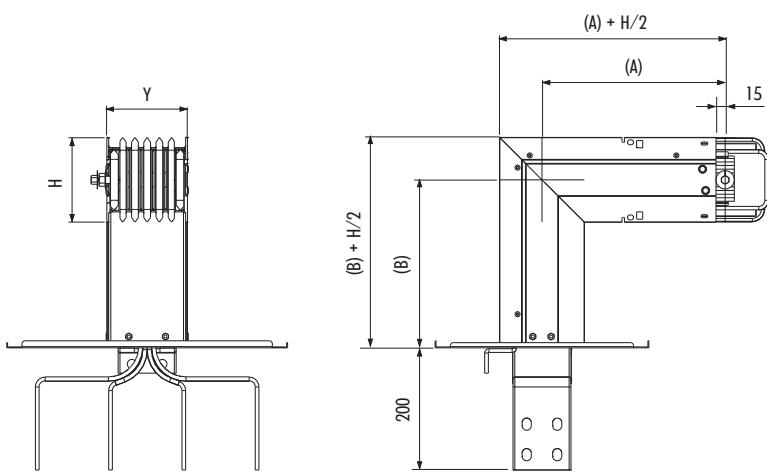
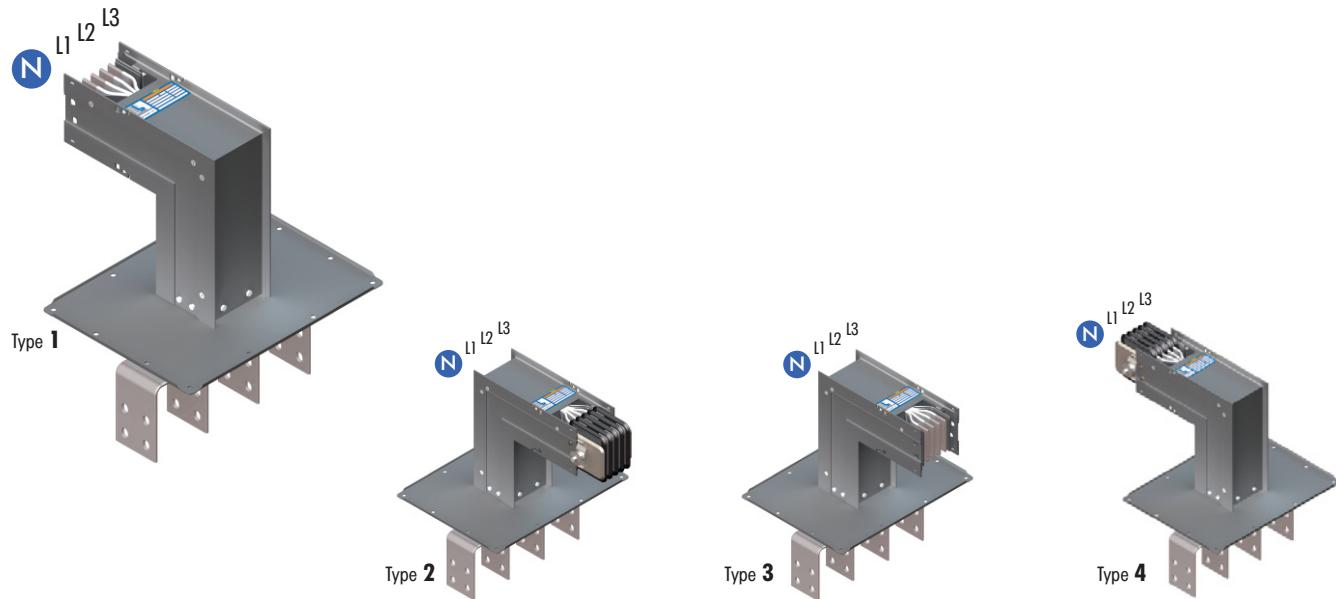
(5P) 3P + N + FE/2 + PE



Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08P11GAA	ISC10P11GAA	ISC13P11GAA	ISC16P11GAA	ISC20P11GAA	ISC25P11GAA
Type 2	ISC08P12GAA	ISC10P12GAA	ISC13P12GAA	ISC16P12GAA	ISC20P12GAA	ISC25P12GAA
Type 3	ISC08P13GAA	ISC10P13GAA	ISC13P13GAA	ISC16P13GAA	ISC20P13GAA	ISC25P13GAA
Type 4	ISC08P14GAA	ISC10P14GAA	ISC13P14GAA	ISC16P14GAA	ISC20P14GAA	ISC25P14GAA



dimensions

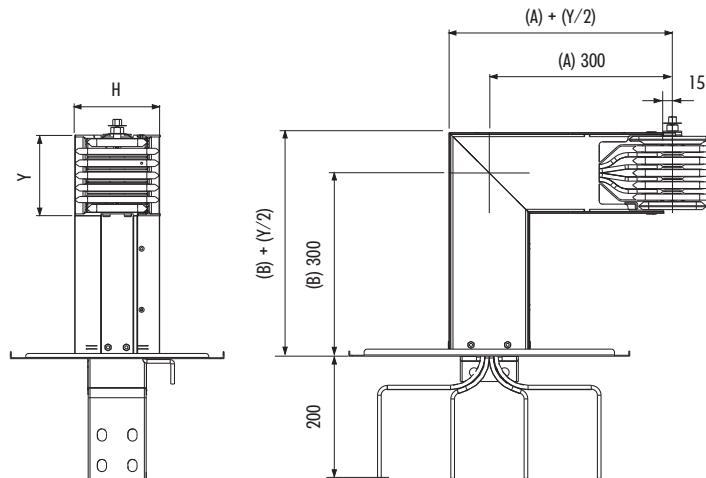
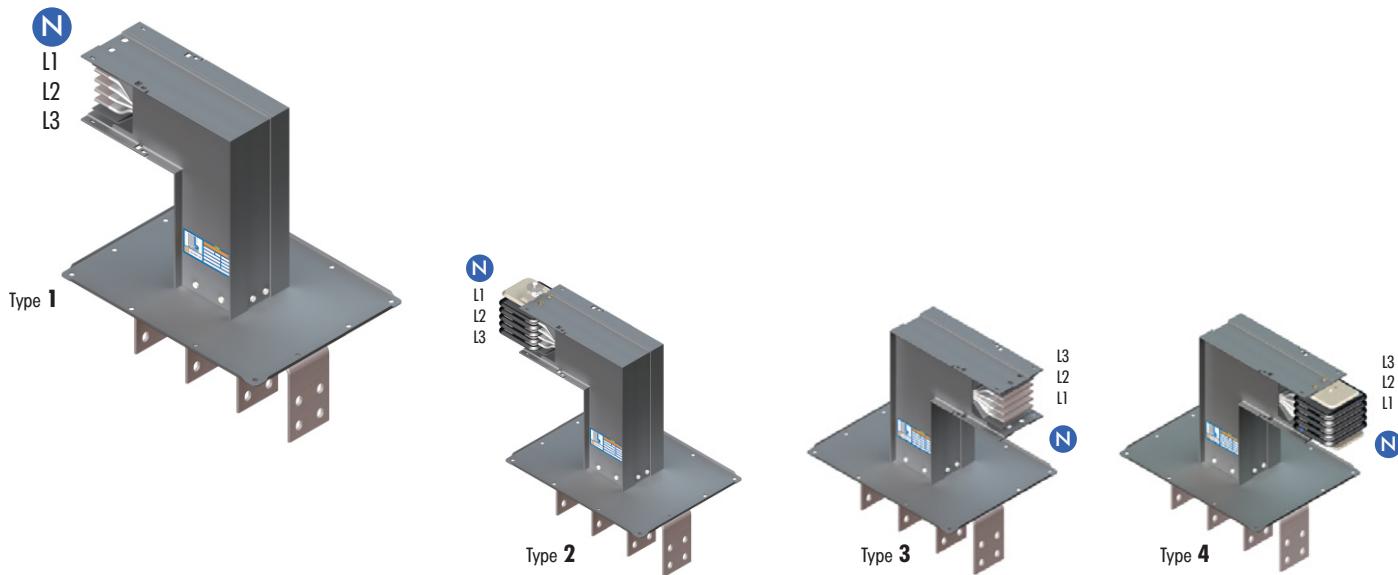
	(A) mm	(B) mm	(H) mm	Cu mm
800A+2000A Cu	std	300	300	800A 139
	min	260	210	1000A 139
	max	849	549	1250A 174
2500A Cu	std	450	450	1600A 204
	min	450	250	2000A 224
	max	1049	1049	2500A 312

(Y)	5P GAA mm
	154

Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08Q11GAA	ISC10Q11GAA	ISC13Q11GAA	ISC16Q11GAA	ISC20Q11GAA	ISC25Q11GAA
Type 2	ISC08Q12GAA	ISC10Q12GAA	ISC13Q12GAA	ISC16Q12GAA	ISC20Q12GAA	ISC25Q12GAA
Type 3	ISC08Q13GAA	ISC10Q13GAA	ISC13Q13GAA	ISC16Q13GAA	ISC20Q13GAA	ISC25Q13GAA
Type 4	ISC08Q14GAA	ISC10Q14GAA	ISC13Q14GAA	ISC16Q14GAA	ISC20Q14GAA	ISC25Q14GAA



dimensions

	(A)	(B)
800A+2500A Cu	std 300	300
	min 260	150
	max 849	499

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y)	5P
GAA	mm

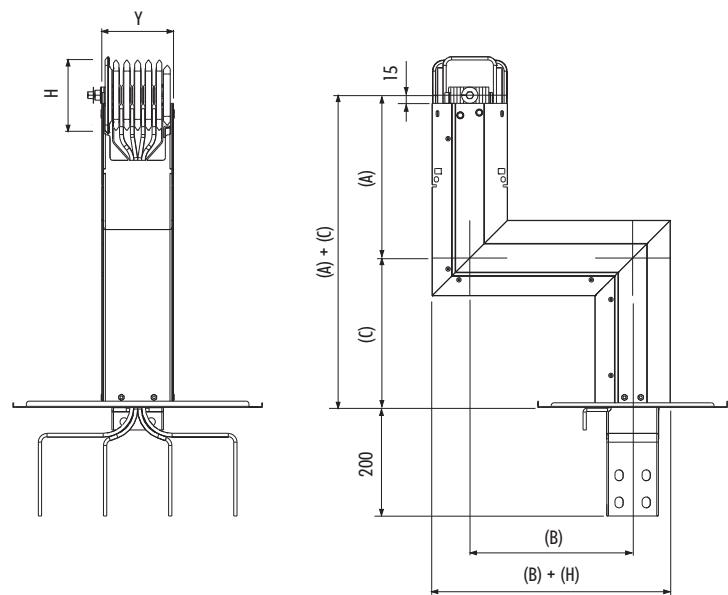
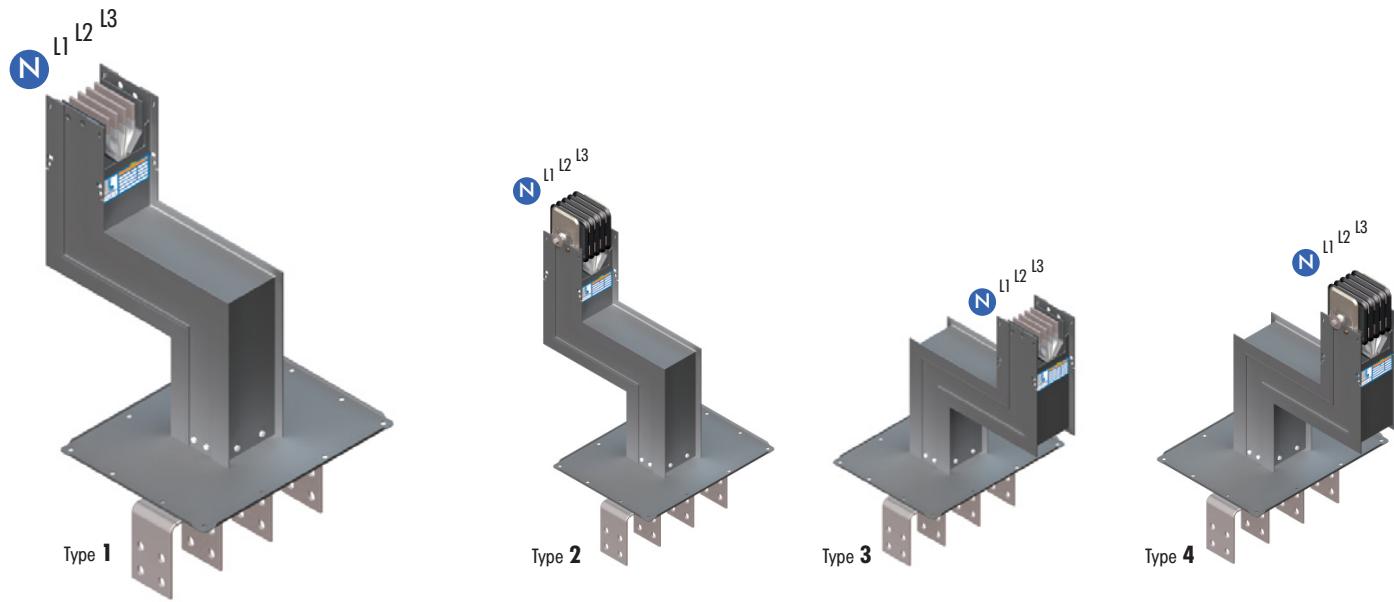
N.B.
For flange and bar dimensions, please see pg. 40-41

DOUBLE FLAT ELBOW + TERMINAL UNIT

Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08R11GAA	ISC10R11GAA	ISC13R11GAA	ISC16R11GAA	ISC20R11GAA	ISC25R11GAA
Type 2	ISC08R12GAA	ISC10R12GAA	ISC13R12GAA	ISC16R12GAA	ISC20R12GAA	ISC25R12GAA
Type 3	ISC08R13GAA	ISC10R13GAA	ISC13R13GAA	ISC16R13GAA	ISC20R13GAA	ISC25R13GAA
Type 4	ISC08R14GAA	ISC10R14GAA	ISC13R14GAA	ISC16R14GAA	ISC20R14GAA	ISC25R14GAA



dimensions

	(A)	(B)	(C)	(H)	Cu
800A+2000A Cu	std 300	300	300	800A	139
	min 300	50	150	1000A	139
	max 899	599	549	1250A	174
2500A Cu	std 450	450	450	1600A	204
	min 450	50	250	2000A	224
	max 1049	899	699	2500A	312

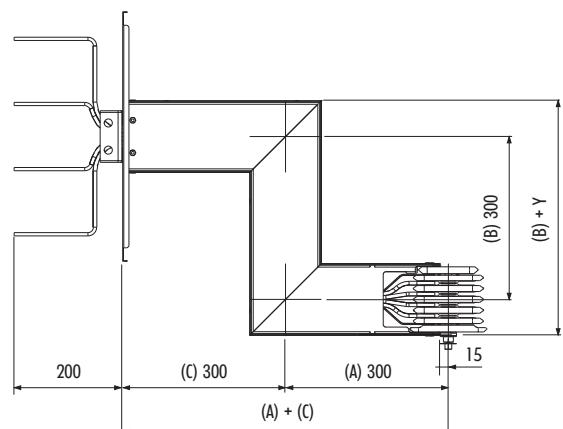
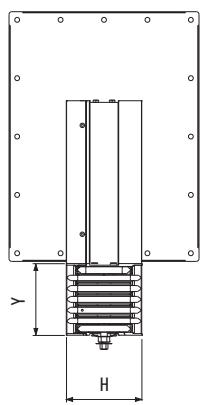
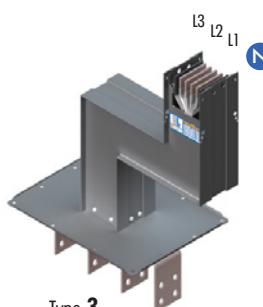
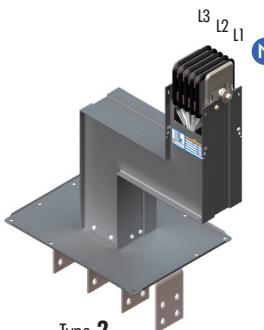
N.B.
For flange and bar dimensions, please see pg. 40-41

(Y)	5P
GAA mm	154

Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08S11GAA	ISC10S11GAA	ISC13S11GAA	ISC16S11GAA	ISC20S11GAA	ISC25S11GAA
Type 2	ISC08S12GAA	ISC10S12GAA	ISC13S12GAA	ISC16S12GAA	ISC20S12GAA	ISC25S12GAA
Type 3	ISC08S13GAA	ISC10S13GAA	ISC13S13GAA	ISC16S13GAA	ISC20S13GAA	ISC25S13GAA
Type 4	ISC08S14GAA	ISC10S14GAA	ISC13S14GAA	ISC16S14GAA	ISC20S14GAA	ISC25S14GAA



dimensions

	(A)	(B)	(C)	(H)	Cu
800A+2500A Cu	std 300	300	300		mm
	min 260	50	150		mm
	max 849	499	499		mm

800A 139
1000A 139
1250A 174
1600A 204
2000A 224
2500A 312

(Y)	5P
GAA	
mm	

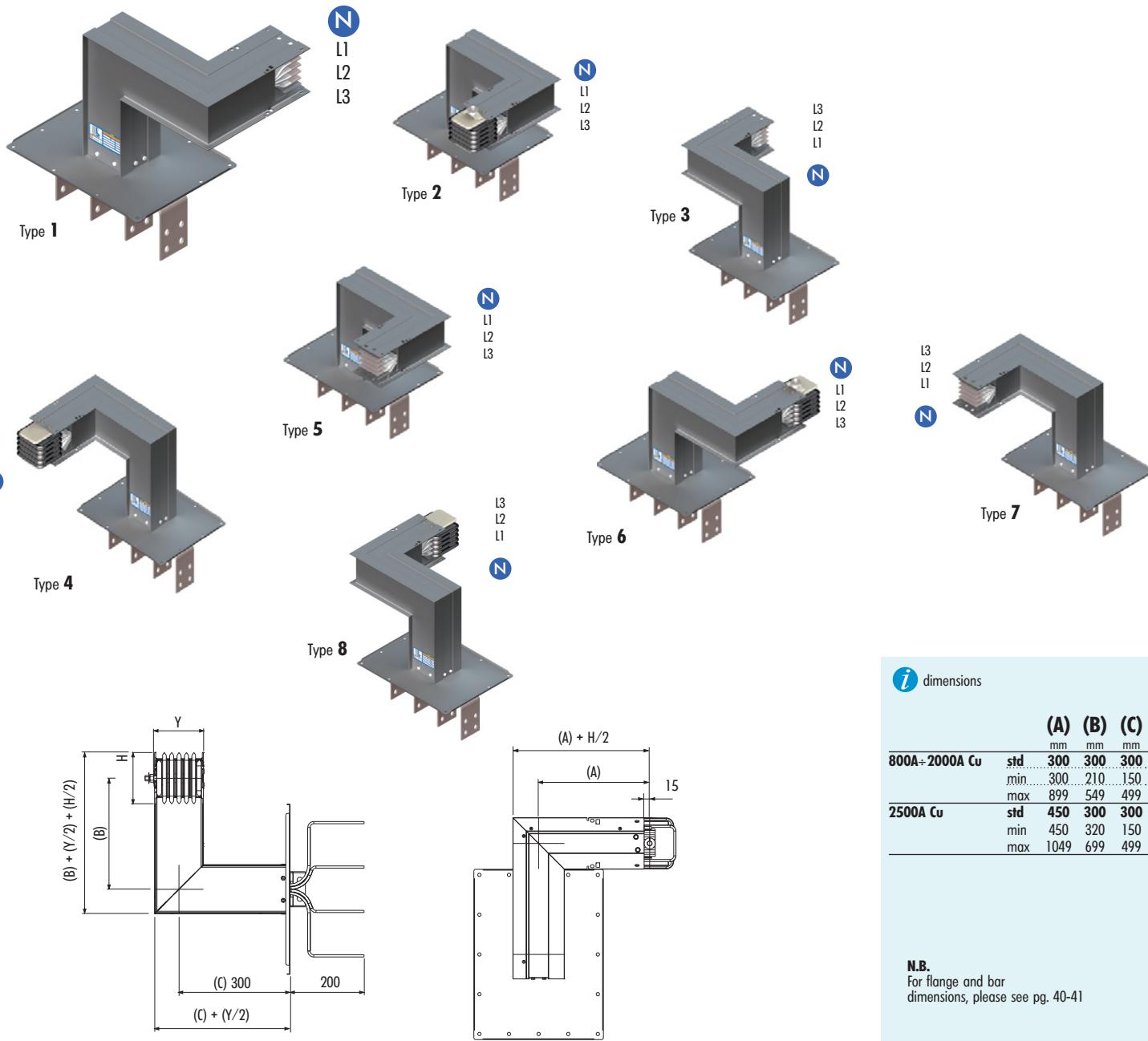
154

N.B.
For flange and bar dimensions, please see pg. 40-41

Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08T11GAA	ISC10T11GAA	ISC13T11GAA	ISC16T11GAA	ISC20T11GAA	ISC25T11GAA
Type 2	ISC08T12GAA	ISC10T12GAA	ISC13T12GAA	ISC16T12GAA	ISC20T12GAA	ISC25T12GAA
Type 3	ISC08T13GAA	ISC10T13GAA	ISC13T13GAA	ISC16T13GAA	ISC20T13GAA	ISC25T13GAA
Type 4	ISC08T14GAA	ISC10T14GAA	ISC13T14GAA	ISC16T14GAA	ISC20T14GAA	ISC25T14GAA
Type 5	ISC08T15GAA	ISC10T15GAA	ISC13T15GAA	ISC16T15GAA	ISC20T15GAA	ISC25T15GAA
Type 6	ISC08T16GAA	ISC10T16GAA	ISC13T16GAA	ISC16T16GAA	ISC20T16GAA	ISC25T16GAA
Type 7	ISC08T17GAA	ISC10T17GAA	ISC13T17GAA	ISC16T17GAA	ISC20T17GAA	ISC25T17GAA
Type 8	ISC08T18GAA	ISC10T18GAA	ISC13T18GAA	ISC16T18GAA	ISC20T18GAA	ISC25T18GAA



dimensions

	(A)	(B)	(C)
800A+2000A Cu	std 300	300	300
	min 300	210	150
	max 899	549	499
2500A Cu	std 450	300	300
	min 450	320	150
	max 1049	699	499

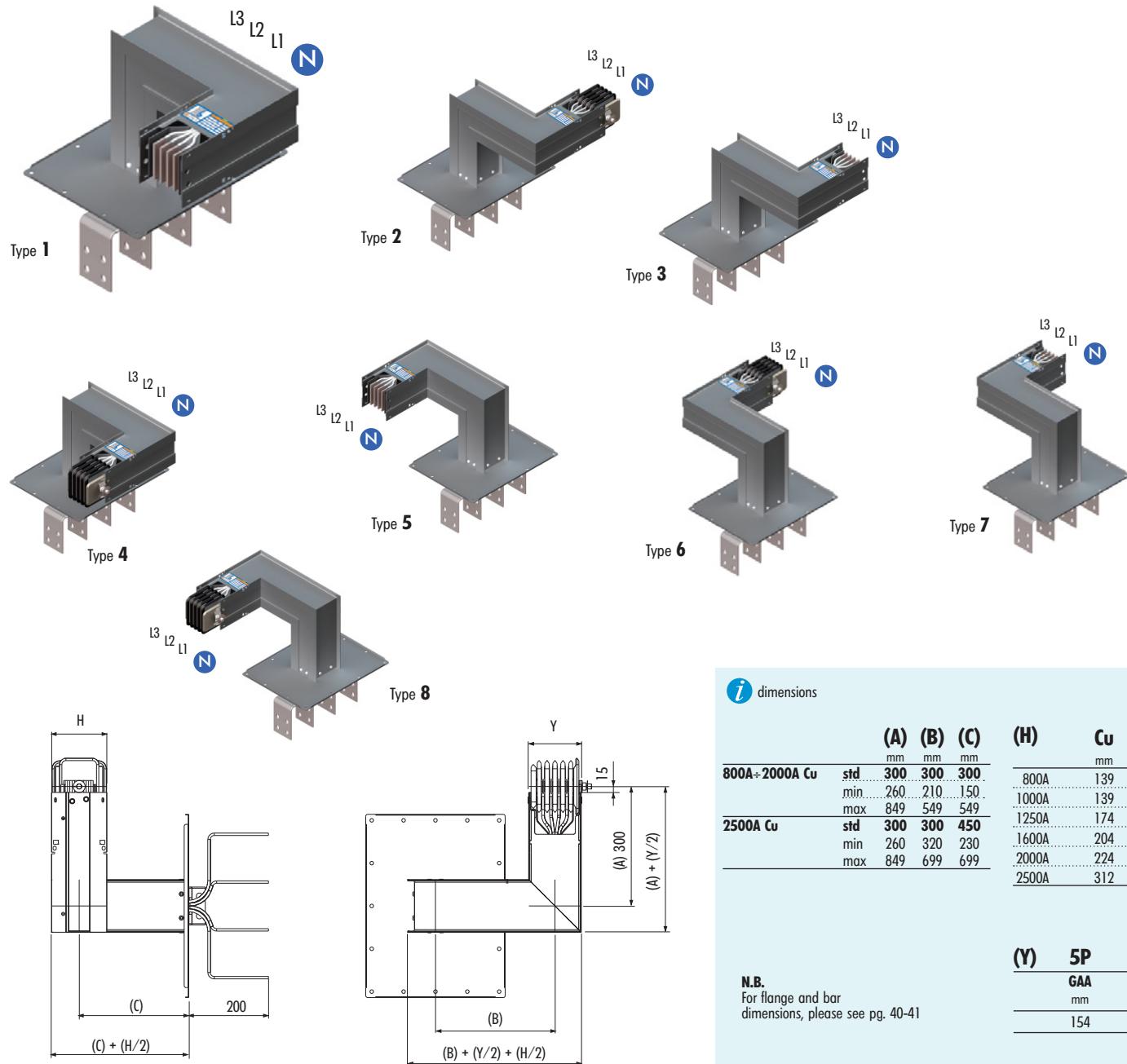
N.B.

For flange and bar dimensions, please see pg. 40-41

Technical data see pg. 87

This unit is used, in particular situations, to facilitate the connection between the busbar trunking runs and the switchboard or the transformer.

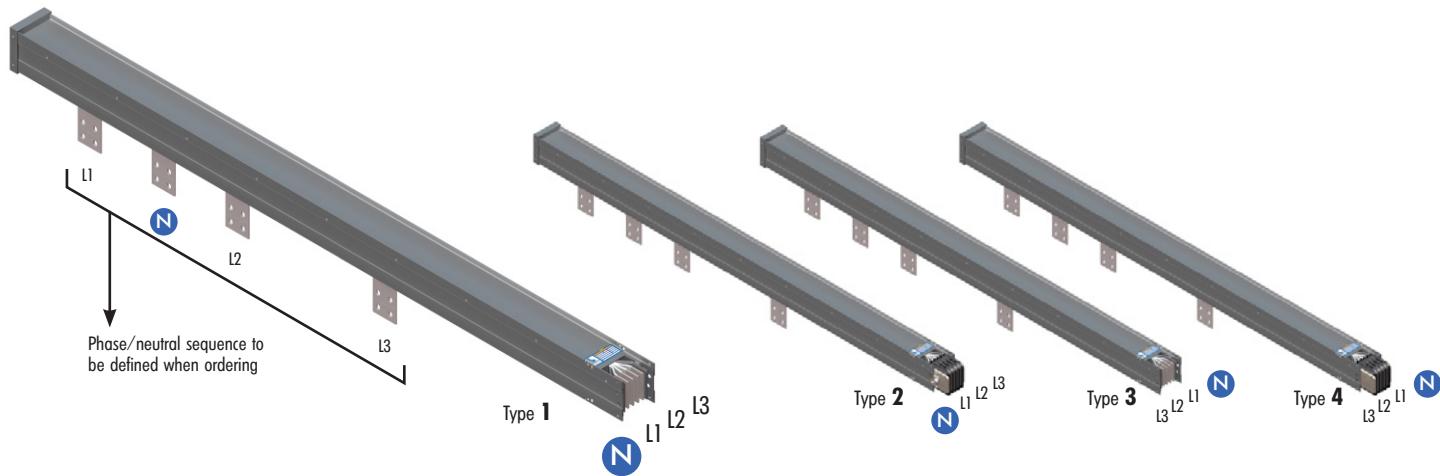
Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08U11GAA	ISC10U11GAA	ISC13U11GAA	ISC16U11GAA	ISC20U11GAA	ISC25U11GAA
Type 2	ISC08U12GAA	ISC10U12GAA	ISC13U12GAA	ISC16U12GAA	ISC20U12GAA	ISC25U12GAA
Type 3	ISC08U13GAA	ISC10U13GAA	ISC13U13GAA	ISC16U13GAA	ISC20U13GAA	ISC25U13GAA
Type 4	ISC08U14GAA	ISC10U14GAA	ISC13U14GAA	ISC16U14GAA	ISC20U14GAA	ISC25U14GAA
Type 5	ISC08U15GAA	ISC10U15GAA	ISC13U15GAA	ISC16U15GAA	ISC20U15GAA	ISC25U15GAA
Type 6	ISC08U16GAA	ISC10U16GAA	ISC13U16GAA	ISC16U16GAA	ISC20U16GAA	ISC25U16GAA
Type 7	ISC08U17GAA	ISC10U17GAA	ISC13U17GAA	ISC16U17GAA	ISC20U17GAA	ISC25U17GAA
Type 8	ISC08U18GAA	ISC10U18GAA	ISC13U18GAA	ISC16U18GAA	ISC20U18GAA	ISC25U18GAA



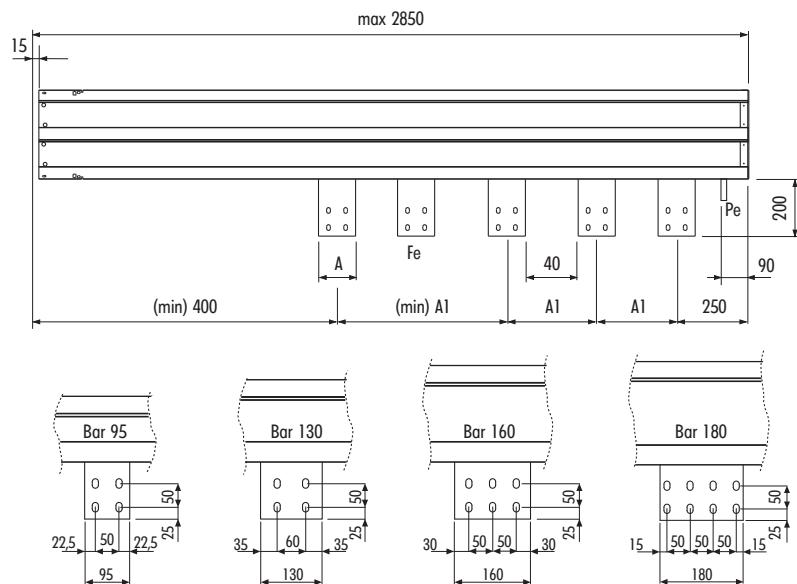
Technical data see pg. 87

This unit is used to prepare the connection between the busbar trunking run and the resin transformer.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08N11GAA	ISC10N11GAA	ISC13N11GAA	ISC16N11GAA	ISC20N11GAA	ISC25N11GAA
Type 2	ISC08N12GAA	ISC10N12GAA	ISC13N12GAA	ISC16N12GAA	ISC20N12GAA	ISC25N12GAA
Type 3	ISC08N13GAA	ISC10N13GAA	ISC13N13GAA	ISC16N13GAA	ISC20N13GAA	ISC25N13GAA
Type 4	ISC08N14GAA	ISC10N14GAA	ISC13N14GAA	ISC16N14GAA	ISC20N14GAA	ISC25N14GAA

**N.B.**

For correct dimensions, please contact our technical department.



Rating	A	A1
800A Cu - 1000A Cu	95	A+40
1250A Cu	130	A+40
1600A Cu	160	A+40
2000A Cu	180	A+40
2500A Cu	130	A+40

i dimensions

(H)	Cu
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

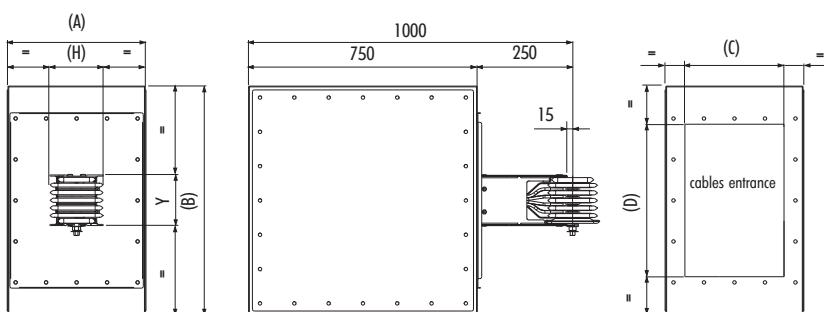
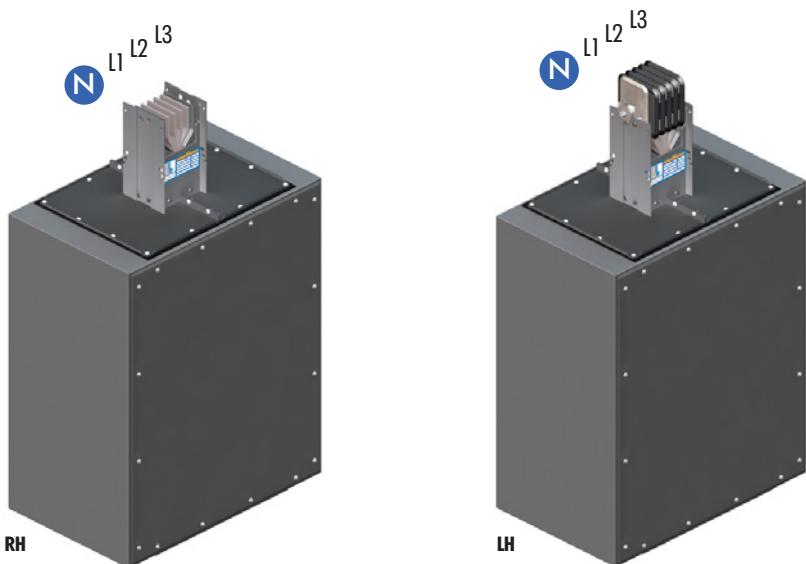
(Y) 5P

GAA
154

Technical data see pg. 87

This unit is used if the busbar trunking system is fed by cables.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Standard						
RH	ISC08V01GAA	ISC10V01GAA	ISC13V01GAA	ISC16V01GAA	ISC20V01GAA	ISC25V01GAA
LH	ISC08V02GAA	ISC10V02GAA	ISC13V02GAA	ISC16V02GAA	ISC20V02GAA	ISC25V02GAA
Special						
RH	ISC08V11GAA	ISC10V11GAA	ISC13V11GAA	ISC16V11GAA	ISC20V11GAA	ISC25V11GAA
LH	ISC08V12GAA	ISC10V12GAA	ISC13V12GAA	ISC16V12GAA	ISC20V12GAA	ISC25V12GAA



dimensions

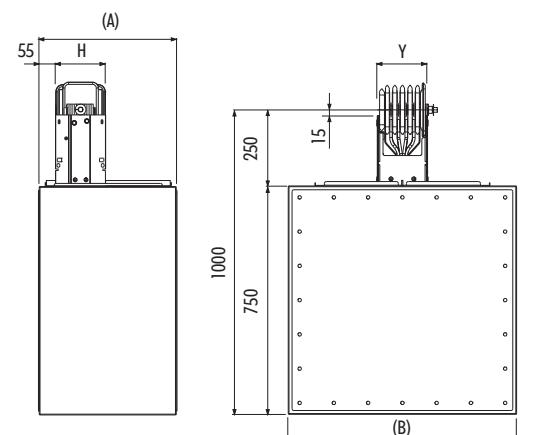
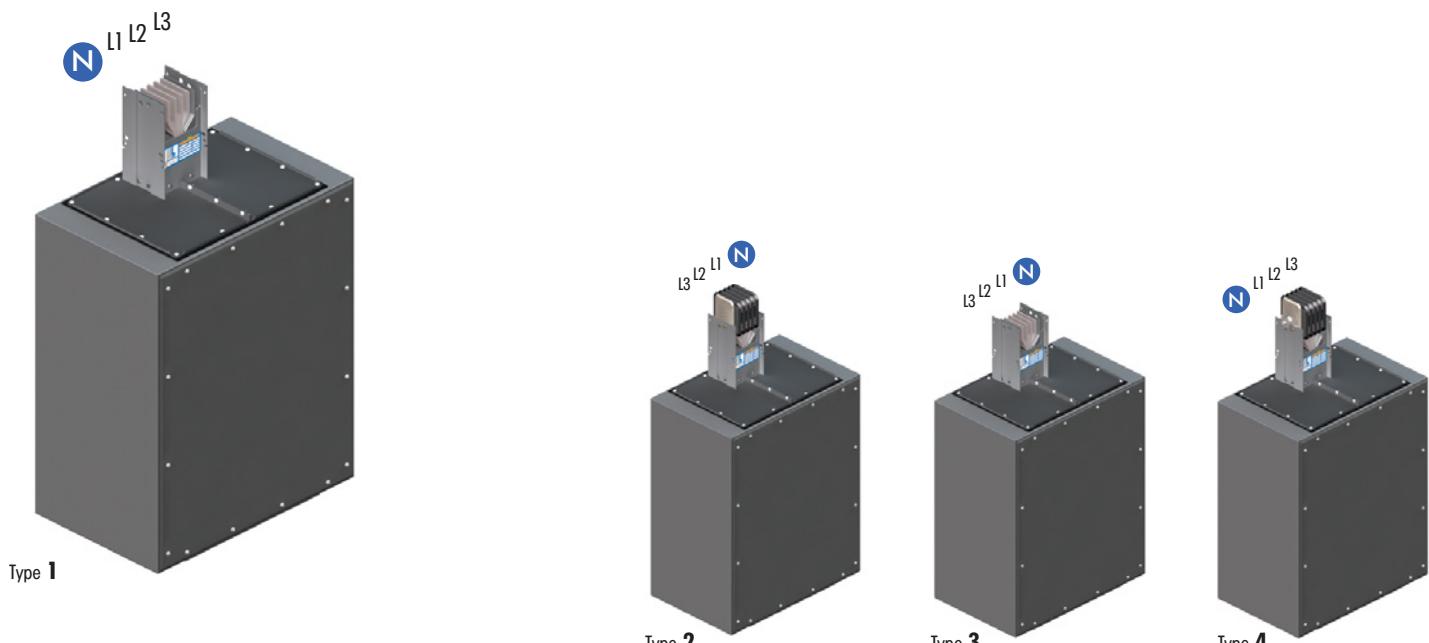
	(A) mm	(B) mm	(C) mm	(H) mm	Cu
800A+2000A Cu	380	600	290	400	800A
					1000A
					1250A
					1600A
					2000A
					2500A

(Y)	5P GAA mm
	154

Technical data see pg. 87

This unit is used to feed the busbar trunking system by cable in high-rise vertical runs. The busbars position in relation to the box body allows the installation of the unit on the wall allowing the use of vertical run fixing units. (pg 84)

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08V31GAA	ISC10V31GAA	ISC13V31GAA	ISC16V31GAA	ISC20V31GAA	ISC25V31GAA
Type 2	ISC08V32GAA	ISC10V32GAA	ISC13V32GAA	ISC16V32GAA	ISC20V32GAA	ISC25V32GAA
Type 3	ISC08V33GAA	ISC10V33GAA	ISC13V33GAA	ISC16V33GAA	ISC20V33GAA	ISC25V33GAA
Type 4	ISC08V34GAA	ISC10V34GAA	ISC13V34GAA	ISC16V34GAA	ISC20V34GAA	ISC25V34GAA



dimensions

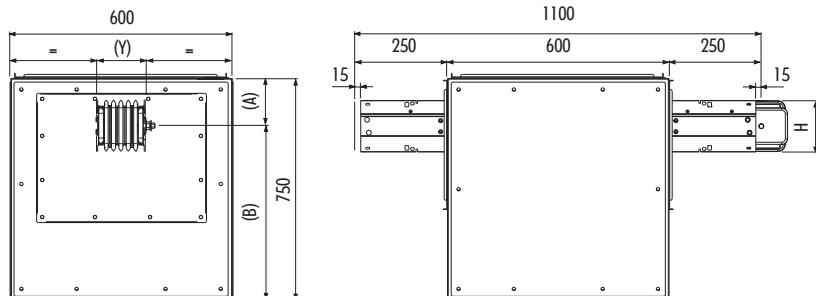
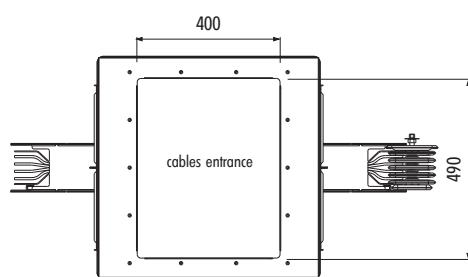
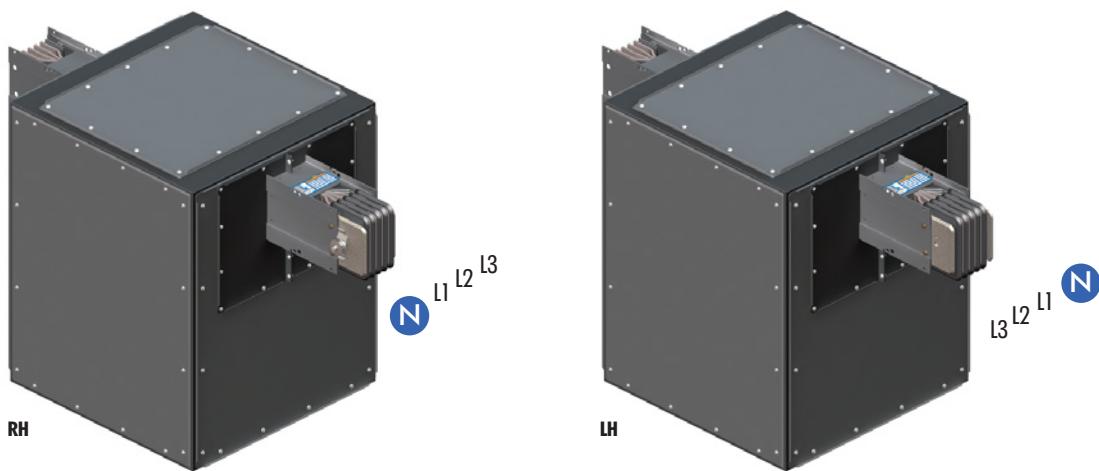
	(A) mm	(B) mm	(C) mm	(H) mm	Cu
800A+2000A Cu	380	600	290	400	800A 1000A 1250A 1600A 2000A
2500A Cu	600	600	490	400	2500A

(Y)	5P
GAA mm	154

Technical data see pg. 87

This unit is used as a feed unit (by cables) in the mid point of a busbar trunking run.

Cu	800A	1000A	1250A	1600A	2000A	2500A
RH	ISC08V41GAA	ISC10V41GAA	ISC13V41GAA	ISC16V41GAA	ISC20V41GAA	ISC25V41GAA
LH	ISC08V42GAA	ISC10V42GAA	ISC13V42GAA	ISC16V42GAA	ISC20V42GAA	ISC25V42GAA

*i* dimensions

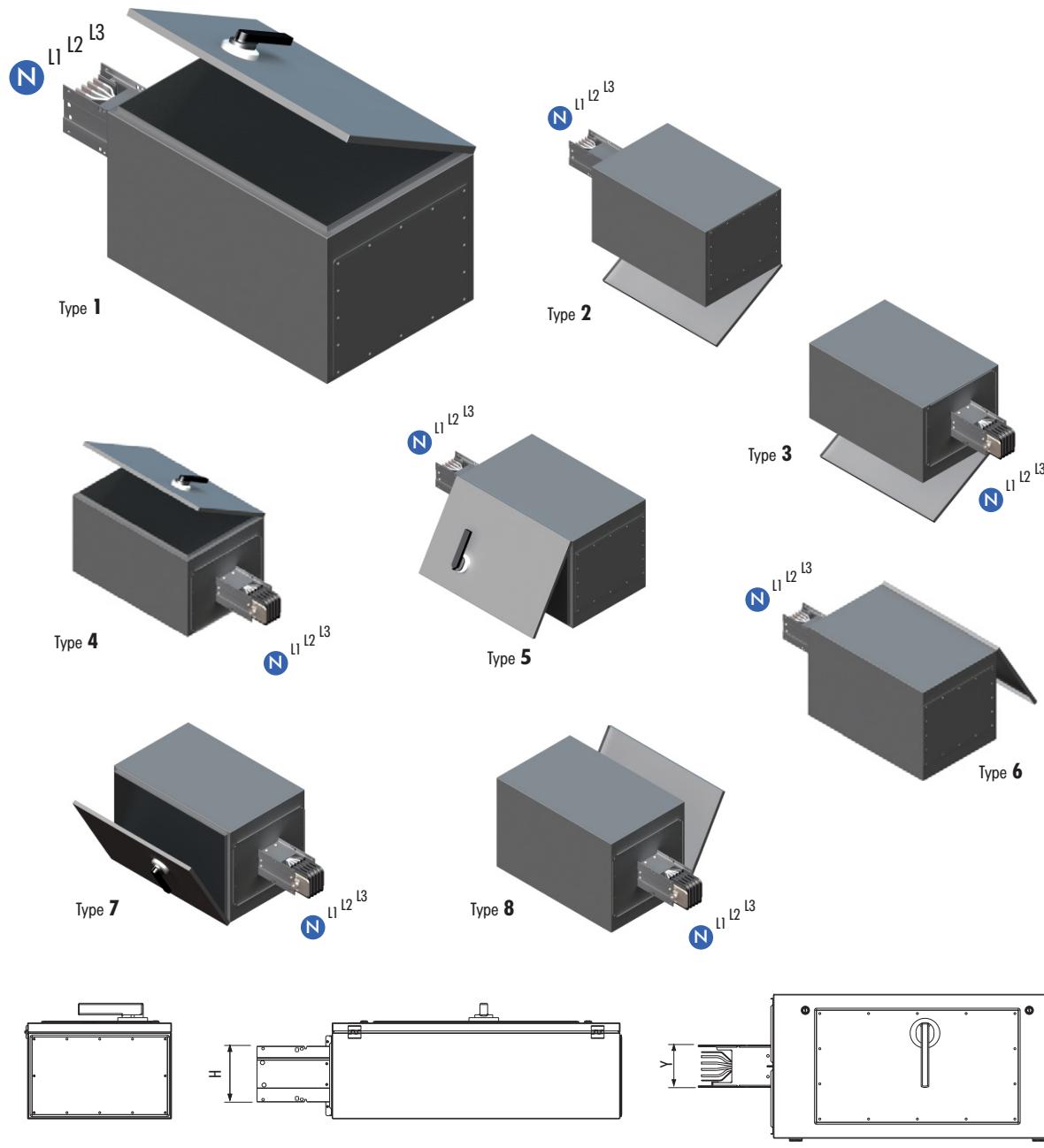
	(A) mm	(B) mm	(H) mm	Cu mm
800A+1000A Cu	115	635	139	
1250A Cu	132	618	139	
1600A Cu	147	603	174	
2000A Cu	157	593	204	
2500A Cu	201	549	224	
			312	

(Y)	5P
GAA	
mm	
154	

Technical data see pg. 87

This unit is used as a busbar trunking feeder. The standard version is offered with a switch-disconnector. On request, a fuseholder or an automatic switch (MCCB) is available.

Cu	800A	1000A	1250A	1600A	2000A	2500A
Type 1	ISC08V21GAA	ISC10V21GAA	ISC13V21GAA	ISC16V21GAA	ISC20V21GAA	ISC25V21GAA
Type 2	ISC08V22GAA	ISC10V22GAA	ISC13V22GAA	ISC16V22GAA	ISC20V22GAA	ISC25V22GAA
Type 3	ISC08V23GAA	ISC10V23GAA	ISC13V23GAA	ISC16V23GAA	ISC20V23GAA	ISC25V23GAA
Type 4	ISC08V24GAA	ISC10V24GAA	ISC13V24GAA	ISC16V24GAA	ISC20V24GAA	ISC25V24GAA
Type 5	ISC08V25GAA	ISC10V25GAA	ISC13V25GAA	ISC16V25GAA	ISC20V25GAA	ISC25V25GAA
Type 6	ISC08V26GAA	ISC10V26GAA	ISC13V26GAA	ISC16V26GAA	ISC20V26GAA	ISC25V26GAA
Type 7	ISC08V27GAA	ISC10V27GAA	ISC13V27GAA	ISC16V27GAA	ISC20V27GAA	ISC25V27GAA
Type 8	ISC08V28GAA	ISC10V28GAA	ISC13V28GAA	ISC16V28GAA	ISC20V28GAA	ISC25V28GAA



N.B.
For dimensions and volumes, please contact our technical department.

dimensions

(H)	Cu
mm	
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

5P

GAA

mm

154

**With fuse holder (fuses not included)**

This unit is used to take power from the busbar trunking straight elements. The tap-off unit is equipped with a fuseholder (fuses not included). Nominal rating from 63A to 315A.

Code	(A)	(B)	(C)	(D)	fuse size
	mm	mm	mm	mm	
63A IMX00WF1 SAA	420	280	170	525	NH00
160A IMX00WF2 SAA	520	320	210	650	NH00
250A IMX00WF3 SAA	520	320	210	650	NH1
315A IMX00WF4 SAA	620	320	245	750	NH2

In **bold** font the letters that have to be replaced during the order phase according to the requested version.

conductor
GAA

SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	●

● to be used - not available

N.B.

For further information, please contact our technical department.

With switch-disconnector + fuse holder (fuses not included)

This unit is used to take power from the busbar trunking straight elements. The tap-off unit is equipped with a rotary switch-disconnector (AC23A) and fuse holder (fuses not included). Nominal rating from 63A to 250A.

Code	(A)	(B)	(C)	(D)	fuse size
	mm	mm	mm	mm	
63A IMX00WF5 SAA	520	320	210	650	NH00
160A IMX00WF8 SAA	520	320	210	650	NH00
250A IMX00WF9 SAA	700	320	245	855	NH1

In **bold** font the letters that have to be replaced during the order phase according to the requested version.

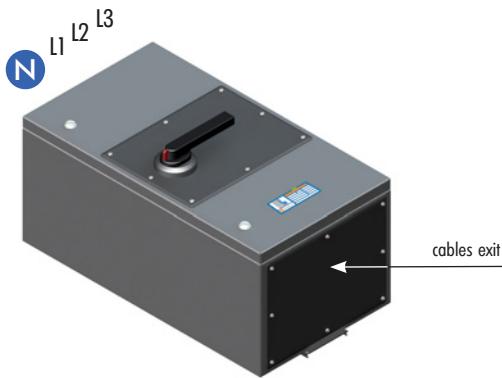
conductor
GAA

SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	●

● to be used - not available

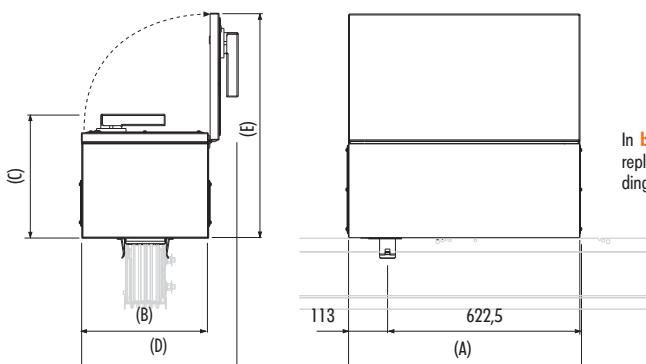
N.B.

For further information, please contact our technical department.

**With switch-disconnector + fuse holder (fuses not included)**

This unit is used to take power from the busbar trunking straight elements. The tap-off unit is equipped with a rotary switch-disconnector (AC23A) and fuse holder (fuses not included). Nominal rating from 400A to 630A.

Code	(A) mm	(B) mm	(C) mm	(D) mm	(E) mm	fuse size
400A IMX00WF6 SAA	735	420	340	450	710	NH3
630A IMX00WF7 SAA	735	420	340	450	710	NH3



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

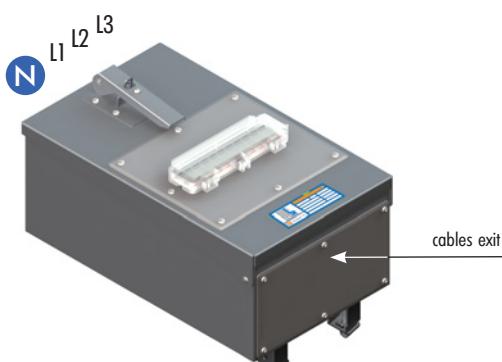
conductor
GAA

SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	●

● to be used – not available

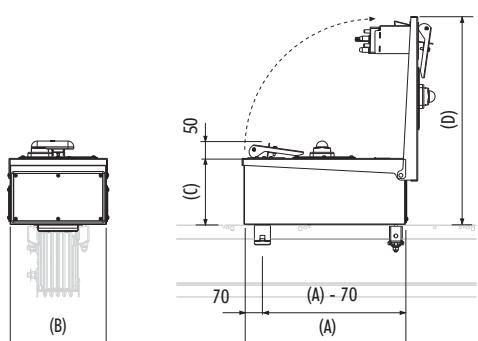
N.B.

For further information, please contact our technical department.

**Suitable for modular switches (MCB)**

This unit is used to take power from the busbar trunking only through distribution straight elements. It is suitable for the modular switches (MCB) insertion on the DIN guide and it is available in 4 modules, 7.5 modules and 11 modules versions. Nominal rating max 250A. On request, it can be supplied with modular switches included.

Code	(A) mm	(B) mm	(C) mm	(D) mm
4 modules IMX00WM1 SAA	420	280	170	525
7,5 modules IMX00WM2 SAA	420	280	170	525
11 modules IMX00WM3 SAA	420	280	170	525



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

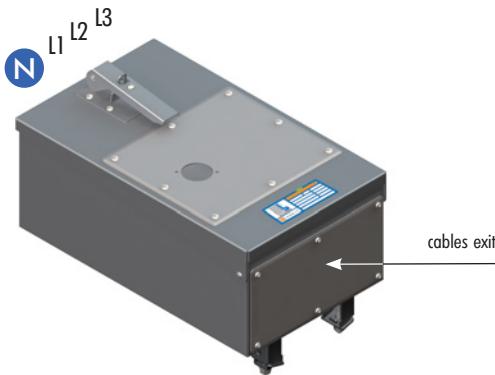
conductor
GAA

SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	●

● to be used – not available

N.B.

For further information, please contact our technical department.



This unit is used to take power from the busbar trunking straight elements. It is suitable for the automatic switch-disconnectors (MCCB) insertion such as TMAX (ABB SACE), NS (SCHNEIDER ELECTRIC), DPX (LEGRAND) or RECORD PLUS (GENERAL ELECTRIC). The prearrangement has the fixed switches insertion with front terminals, equipped with transmitted rotating handle.

The tap-off unit can be supplied prearranged (switch excluded) or with switch included.

On request, prearrangements for switches with special equipment (residual current releases, energy motor operator, etc...) or prearrangements for different brand and type of switches.

Nominal rating from 63A to 315A.

Suitable for TMAX (ABB SACE) automatic switches (MCCB)

Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
63A IMX00WT1 SAA	520	320	210	650	TMAX T1
160A IMX00WT2 SAA	520	320	210	650	TMAX T2
250A IMX00WT3 SAA	520	320	210	650	TMAX T3
315A IMX00WT4 SAA	620	320	245	750	TMAX T4

Suitable for NS (SCHNEIDER ELECTRIC) automatic switches (MCCB)

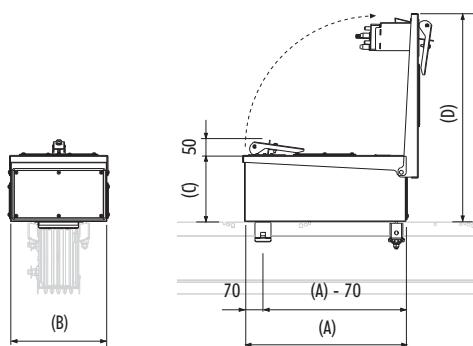
Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
160A IMX00WN1 SAA	520	320	210	650	NS 160
250A IMX00WN2 SAA	520	320	210	650	NS 250

Suitable for DPX (LEGRAND) automatic switches (MCCB)

Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
63A IMX00WL1 SAA	420	280	190	525	DPX 125
160A IMX00WL2 SAA	520	320	210	650	DPX 160
250A IMX00WL3 SAA	620	320	240	750	DPX 250
315A IMX00WL4 SAA	700	320	245	855	DPX 630

Suitable for RECORD PLUS (GENERAL ELECTRIC) automatic switches (MCCB)

Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
160A IMX00WG1 SAA	520	320	210	650	FD 160
160A IMX00WG2 SAA	620	320	245	750	FE 160
250A IMX00WG3 SAA	620	320	245	750	FE 250



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

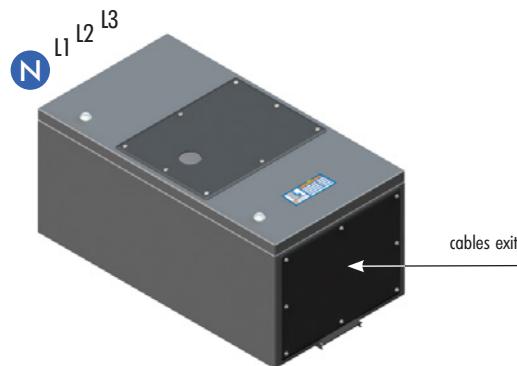
conductor
GAA

SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	■

● to be used - not available

N.B.

For further information, please contact our technical department.



This unit is used to take power from the busbar trunking straight elements. It is suitable for the automatic switch-disconnectors insertion such as TMAX (ABB SACE), NS (SCHNEIDER ELECTRIC) o DPX (LEGRAND) or RECORD PLUS (GENERAL ELECTRIC). The prearrangement has the fixed switches insertion with front terminals, equipped with transmitted rotating handle.

The tap-off unit can be supplied prearranged (switch excluded) or with switch included.

On request, prearrangements for switches with special equipment (residual current releases, energy motor operator, etc...) or prearrangements for different brand and type of switches.

Nominal rating from 400A to 630A.

Suitable for TMAX (ABB SACE) automatic switches (MCCB)

	Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
400A	IMX00WT5 SAA	735	420	340	710	TMAX T5
630A	IMX00WT6 SAA	735	420	340	710	TMAX T6

Suitable for NS (SCHNEIDER ELECTRIC) automatic switches (MCCB)

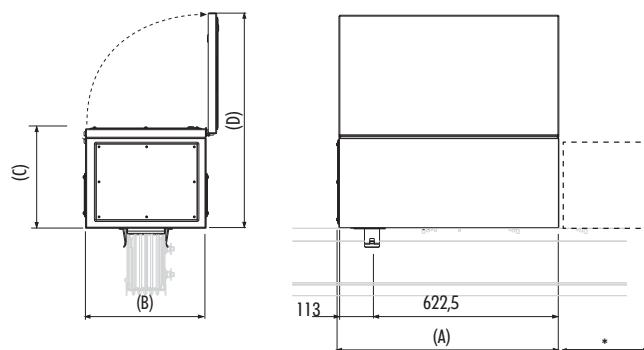
	Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
400A	IMX00WN3 SAA	735	420	340	710	NS 400
630A	IMX00WN4 SAA	735	420	340	710	NS 630

Suitable for DPX (LEGRAND) automatic switches (MCCB)

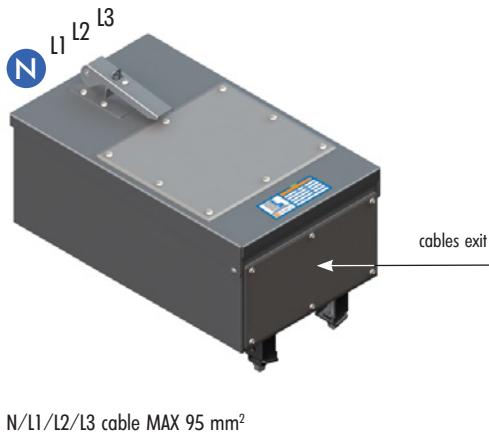
	Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
400A	IMX00WL5 SAA	735	420	340	710	DPX 630
500A	IMX00WL6 SAA	735	420	340	710	DPX 630
630A	IMX00WL7 SAA	735	420	340	710	DPX 630

Suitable for RECORD PLUS (GENERAL ELECTRIC) automatic switches (MCCB)

	Code	(A) mm	(B) mm	(C) mm	(D) mm	MCCB type
400A	IMX00WG4 SAA	735+250*	420	340	710	FG 400
630A	IMX00WG5 SAA	735+250*	420	340	710	FG 630



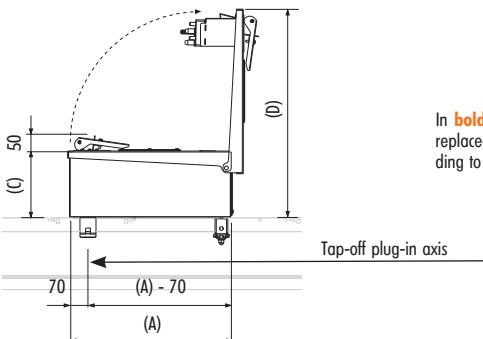
* Extension only for Record plus mccb.

**Empty**

This unit is used to take power from the busbar tunking straight elements. This unit does not have any protection device and/or switch-disconnector, so with the top cover open, the tap-off unit can be cabled even if already fixed on the busbar trunking energized. Nominal rating from 63A to 315A.

Code	(A)	(A ₁)	(B)	(B ₁)	(C)	(C ₁)	(D)
	mm	mm	mm	mm	mm	mm	mm
63A	IMX00WV1 SAA	420	273	280	237	170	153
160A	IMX00WV2 SAA	520	374	320	277	210	193
250A							650
315A	IMX00WV3 SAA	620	474	320	277	245	228
							750

(A₁)(B₁)(C₁) Internal useful space



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

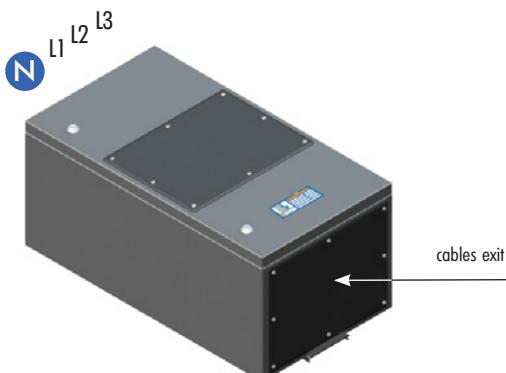
conductor
GAA

SAA = 3P + NP + FE + PE ●
BAA = 3P + N + FE + PE ●

● to be used - not available

N.B.

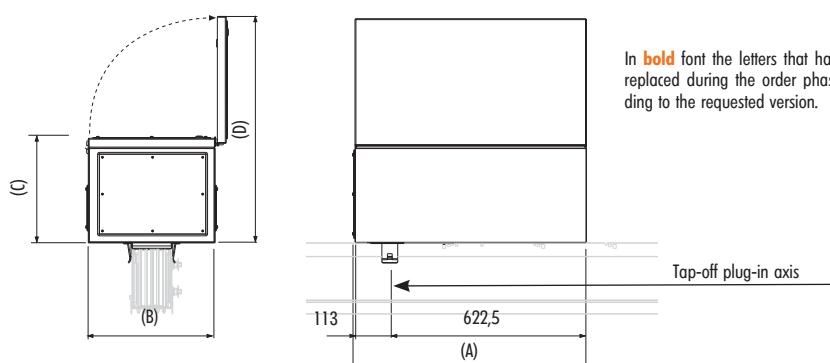
For further information, please contact our technical department.

**Empty**

This unit is used to take power from the busbar tunking straight elements. This unit does not have any protection device and/or switch-disconnector, so with the top cover open, the tap-off unit can be cabled only if the conductor is not energized. Nominal rating from 400A to 630A.

Code	quotes	(A)	(A ₁)	(B)	(B ₁)	(C)	(C ₁)	(D)
	mm	mm	mm	mm	mm	mm	mm	mm
400A	IMX00WV7 SAA	735	451	420	373	340	314	710
630A								

(A₁)(B₁)(C₁) Internal useful space



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

conductor
GAA

SAA = 3P + NP + FE + PE ●
BAA = 3P + N + FE + PE ●

● to be used - not available

N.B.

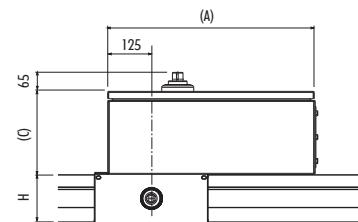
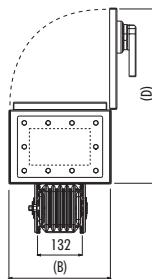
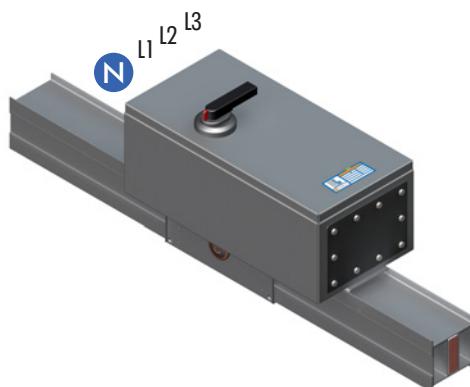
For further information, please contact our technical department.

With switch-disconnector + fuse holder

This unit is used to take power from the busbar trunking and it is installed on the junction between the two units. The tap-off unit is equipped with a rotary switch-disconnector (AC23A) with a fuse holder (fuses not included) and can be installed only if the busbar trunking is not energized. Nominal rating from 125A/1250A.

	800A Cu 1000A Cu	1250A Cu	1600A Cu	2000A Cu	2500A Cu
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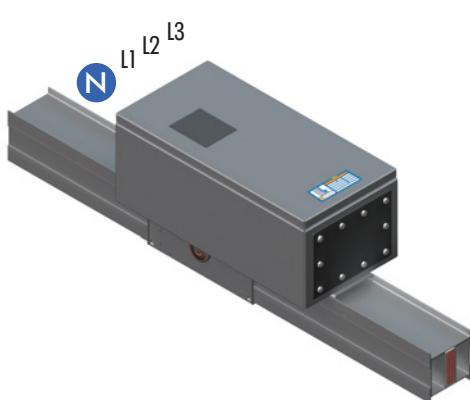
125A	IMX82W20 SAA	IMX83W20 SAA	IMX84W20 SAA	IMX85W20 SAA	IMX92W20 SAA NH0
160A	IMX82W21 SAA	IMX83W21 SAA	IMX84W21 SAA	IMX85W21 SAA	IMX92W21 SAA NH1
300A	IMX82W22 SAA	IMX83W22 SAA	IMX84W22 SAA	IMX85W22 SAA	IMX92W22 SAA NH2
500A	IMX82W23 SAA	IMX83W23 SAA	IMX84W23 SAA	IMX85W23 SAA	IMX92W23 SAA NH3
630A	IMX82W24 SAA	IMX83W24 SAA	IMX84W24 SAA	IMX85W24 SAA	IMX92W24 SAA NH3
800A	IMX82W25 SAA	IMX83W25 SAA	IMX84W25 SAA	IMX85W25 SAA	IMX92W25 SAA NH4
1250A	IMX82W27 SAA	IMX83W27 SAA	IMX84W27 SAA	IMX85W27 SAA	IMX92W27 SAA NH4



Suitable for automatic switch-disconnector (MCCB)

This unit is used to take power from the busbar trunking straight and it is installed on the junction between the two units. The tap-off unit is suitable for an automatic switch prearrangement that has to be specified during the order phase (brand and model). On request, the tap-off unit can be supplied only prearranged (switch not included) or with the switch (switch installed). Nominal rating from 125A / 1250A

	800A Cu 1000A Cu	1250A Cu	1600A Cu	2000A Cu	2500A Cu
125A	IMX82W40 SAA	IMX83W40 SAA	IMX84W40 SAA	IMX85W40 SAA	IMX92W40 SAA
160A	IMX82W41 SAA	IMX83W41 SAA	IMX84W41 SAA	IMX85W41 SAA	IMX92W41 SAA
300A	IMX82W42 SAA	IMX83W42 SAA	IMX84W42 SAA	IMX85W42 SAA	IMX92W42 SAA
500A	IMX82W43 SAA	IMX83W43 SAA	IMX84W43 SAA	IMX85W43 SAA	IMX92W43 SAA
630A	IMX82W44 SAA	IMX83W44 SAA	IMX84W44 SAA	IMX85W44 SAA	IMX92W44 SAA
800A	IMX82W45 SAA	IMX83W45 SAA	IMX84W45 SAA	IMX85W45 SAA	IMX92W45 SAA
1000A	IMX82W46 SAA	IMX83W46 SAA	IMX84W46 SAA	IMX85W46 SAA	IMX92W46 SAA
1250A	IMX82W47 SAA	IMX83W47 SAA	IMX84W47 SAA	IMX85W47 SAA	IMX92W47 SAA



conductor GAA
SAA = 3P + NP + FE + PE •
BAA = 3P + N + FE + PE •

• to be used - not available

N.B.
For further information,
please contact our technical department.

In **bold** font the letters that have to be replaced during the order phase according to the requested version.

dimensions

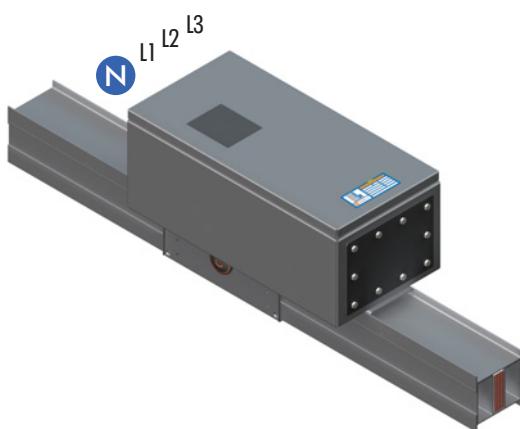
(A)	(B)	(C)	(D)
125A	650	320	250
160A	650	320	250
300A	650	320	250
500A	750	450	300
630A	750	450	300
800A	1200	550	300
1250A	1200	550	300

Empty

This unit is used to take power from the busbar tankings and it is installed on the junction between the two units. This unit does not have any protection device, so the tap-off unit can be installed and cabled only if the conductor is not energized. Nominal rating from 125A / 1250A.

800A Cu	1000A Cu	1250A Cu	1600A Cu	2000A Cu	2500A Cu
---------	----------	----------	----------	----------	----------

125A	IMX82W30 SAA	IMX83W30 SAA	IMX84W30 SAA	IMX85W30 SAA	IMX92W30 SAA
160A	IMX82W31 SAA	IMX83W31 SAA	IMX84W31 SAA	IMX85W31 SAA	IMX92W31 SAA
300A	IMX82W32 SAA	IMX83W32 SAA	IMX84W32 SAA	IMX85W32 SAA	IMX92W32 SAA
500A	IMX82W33 SAA	IMX83W33 SAA	IMX84W33 SAA	IMX85W33 SAA	IMX92W33 SAA
630A	IMX82W34 SAA	IMX83W34 SAA	IMX84W34 SAA	IMX85W34 SAA	IMX92W34 SAA
800A	IMX82W35 SAA	IMX83W35 SAA	IMX84W35 SAA	IMX85W35 SAA	IMX92W35 SAA
1250A	IMX82W37 SAA	IMX83W37 SAA	IMX84W37 SAA	IMX85W37 SAA	IMX92W37 SAA



In **bold** font the letters that have to be replaced during the order phase according to the requested version.

conductor GAA	
SAA = 3P + NP + FE + PE	●
BAA = 3P + N + FE + PE	●

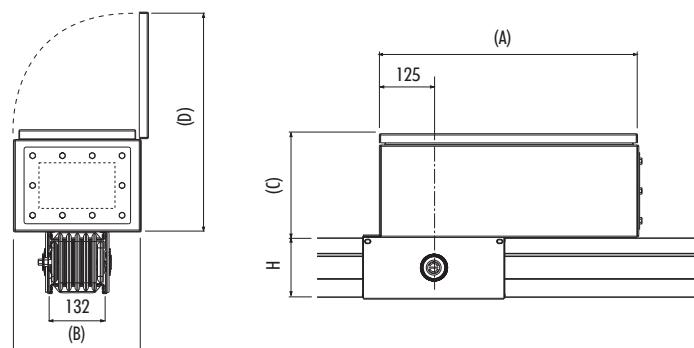
● to be used - not available

N.B.

For further information, please contact our technical department.



For correct dimensions, please contact our technical department.

**i** dimensions

(A)	(A ₁)	(B)	(B ₂)	(C)	(C ₃)	(D)
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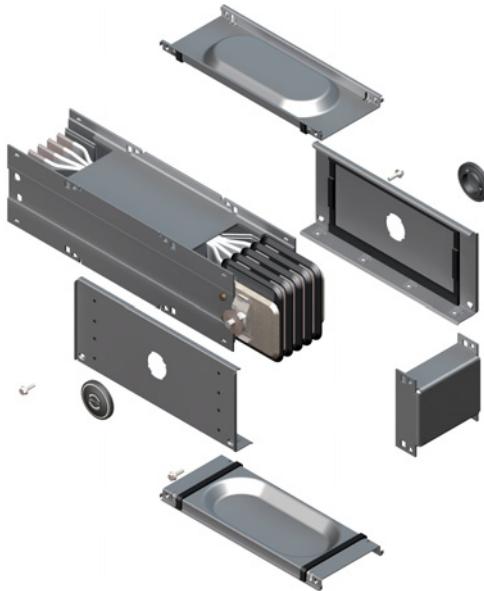
125A	650	289	320	293	250	207	550
160A	650	289	320	293	250	207	550
300A	650	289	320	293	250	207	550
500A	750	364	450	423	300	266	730
630A	750	364	450	423	300	266	730
800A	1200	789	550	523	300	282	830
1250A	1200	789	550	523	300	282	830

(A₁) (B₁) (C₁) Internal useful space

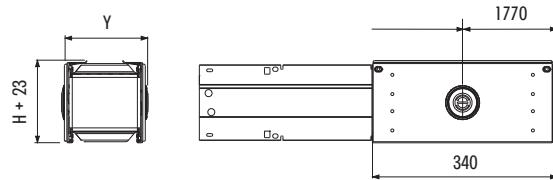
END COVER

This unit is used to guarantee the IP55 degree of protection on the end of the busbar trunking run. On request, IP66 is available only for feeder runs (without tap-off units).

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82Y01BAA	IMX82Y01BAA	IMX83Y01BAA	IMX84Y01BAA	IMX85Y01BAA	IMX92Y01BAA



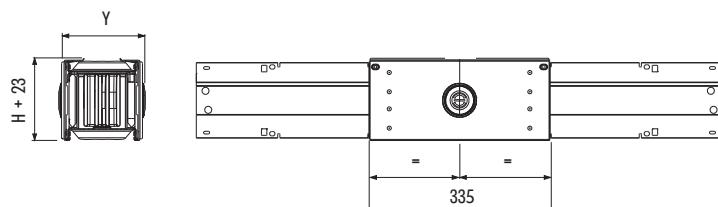
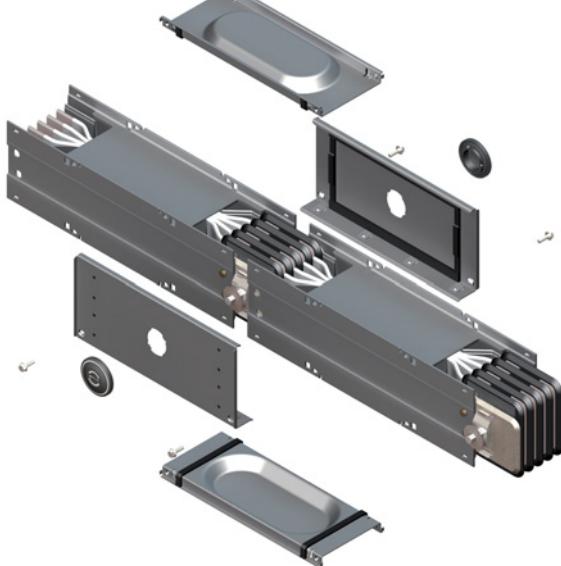
All the seals are supplied already assembled on the respective flanges



JOINT COVER

This unit is used to guarantee the IP55 degree of protection on the junction between two units of the busbar trunking run. On request, IP66 version is available only for transport runs (without tap-off units)

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82Z01BAA	IMX82Z01BAA	IMX83Z01BAA	IMX84Z01BAA	IMX85Z01BAA	IMX92Z01BAA



dimensions

(H)	Cu
mm	
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y)	5P
GAA	
mm	
	154

All the seals are supplied already assembled on the respective flanges

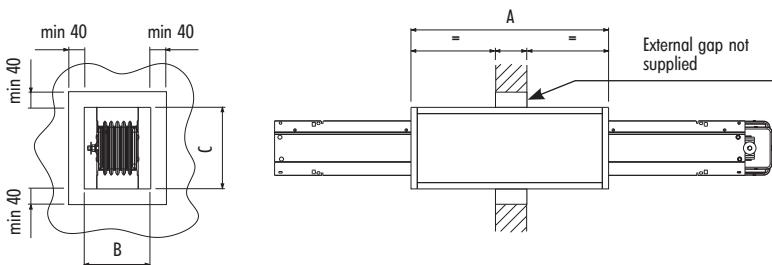
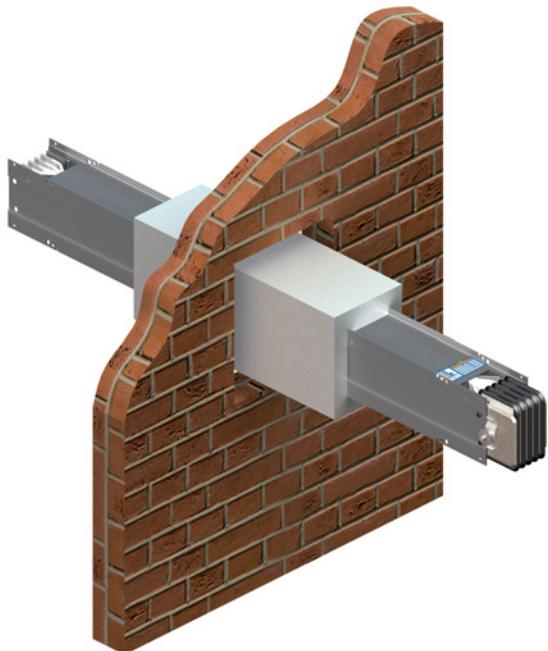
FIRE BARRIER

This unit is used to maintain the fire wall resistance class, when a busbar is passing through a wall, in order to avoid the transmission of fire, combustive gas and temperature. This unit is composed of special external panels and is positioned internally where the busbar passes through the wall.

The busbar trunking run (straight trunking, elbows etc...) with the internal position (code IM...AF) has to be prepared in factory while the external part can be supplied already assembled on the busbar trunking run or supplied disassembled to be assembled on site. The unit has the following fire resistance class:

EI 180 (180 minutes) in accordance to **EN 1366-3**

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82104BAA	IMX82104BAA	IMX83104BAA	IMX84104BAA	IMX85104BAA	IMX92104BAA



For further information, please contact our technical department.



quotes

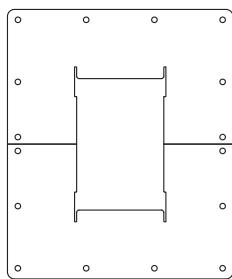
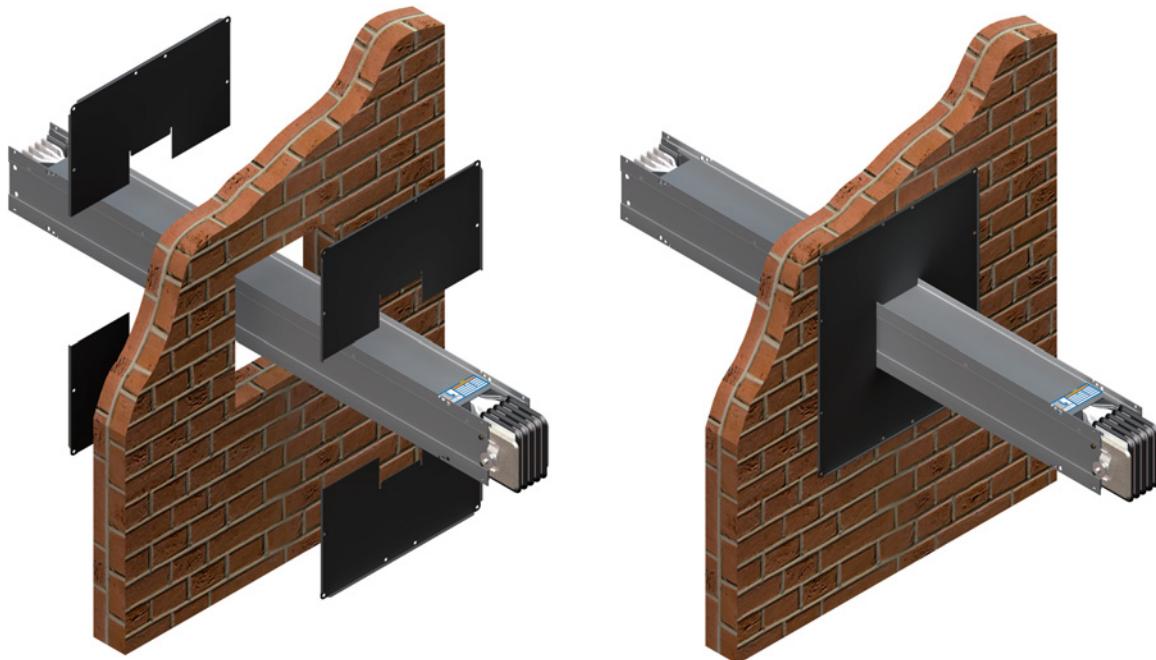
5P

Cu	(A) mm	(B) mm	(C) mm
800A	630	234	225
1000A	630	234	260
1250A	630	234	290
1600A	630	234	310
2000A	830	234	398
2500A	830	234	398

WALL FLANGE

This unit is used to cover the hole on the wall through which the busbar trunking passes. The gap material is not included and the unit can be applied even in the presence of the fire barrier unit. For dimensions and characteristics, please contact our technical department.

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82911BAA	IMX82911BAA	IMX83911BAA	IMX84911BAA	IMX85911BAA	IMX92911BAA



For correct dimensions, please contact our technical department.

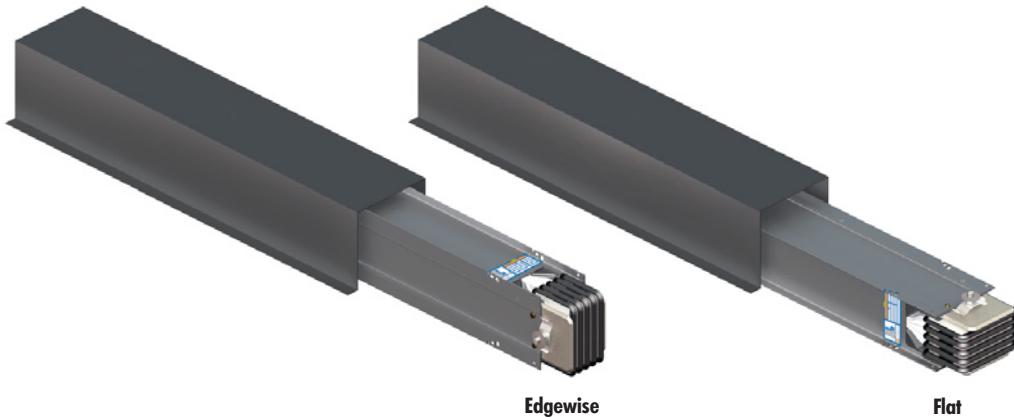
This unit is used in outdoor installations as an extra protection.

EDGEWISE

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82601BAA	IMX82601BAA	IMX83601BAA	IMX84601BAA	IMX85601BAA	IMX92601BAA

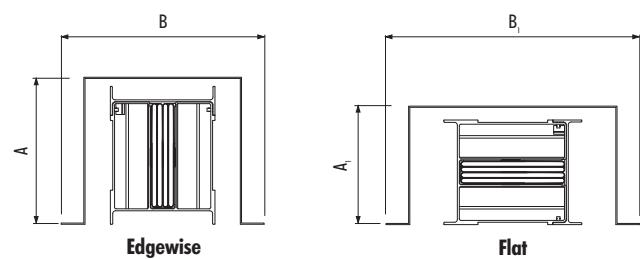
FLAT

Cu	800A	1000A	1250A	1600A	2000A	2500A
	IMX82602BAA	IMX82602BAA	IMX83602BAA	IMX84602BAA	IMX85602BAA	IMX92602BAA



Edgewise

Flat



dimensions

Cu	bar	5P			
		(A)	(B)	(A1)	(B1)
800A	B85	140	282	172	256
1000A					
1250A	B95	150	282	172	321
1600A	B130	185	282	172	351
2000A	B160	215	282	172	371
2500A	B180	322	282	172	459

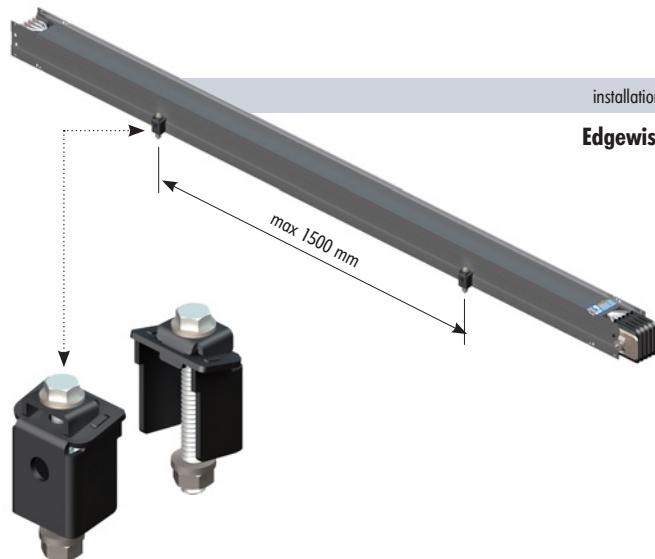
UNIVERSAL FIXING UNIT

This unit is used to fix the busbar trunking unit to the suspension unit on horizontal runs (always) or vertical (only for short runs 6 ÷ 7 m)

Code

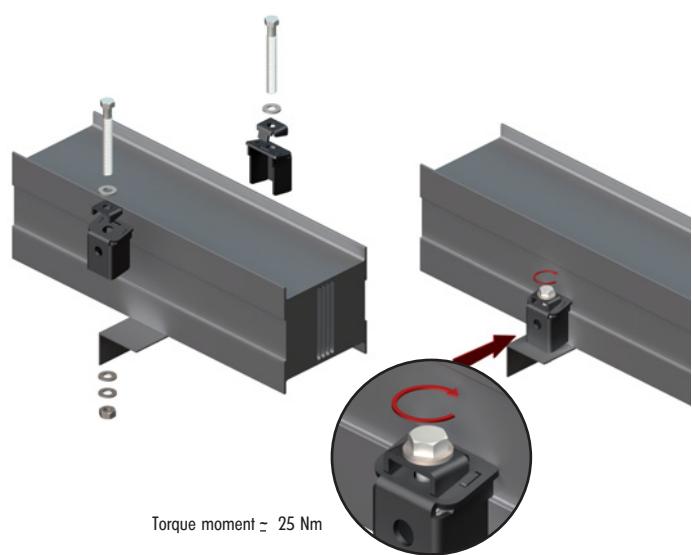
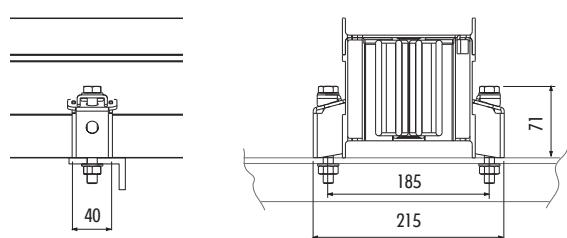
for all versions

IMX00710AAA



installation

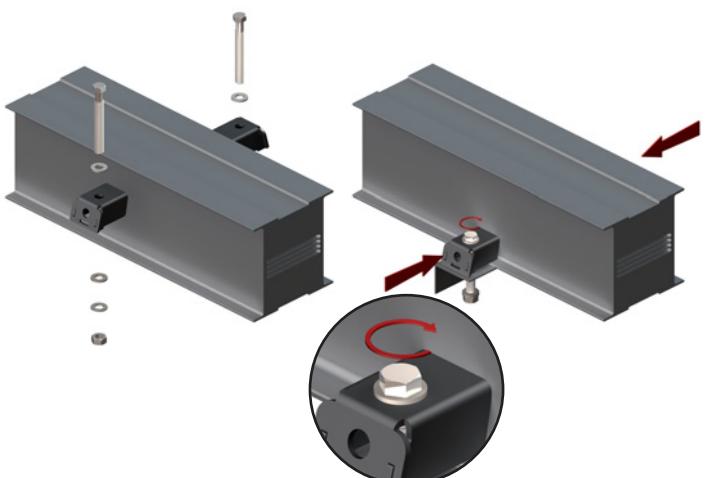
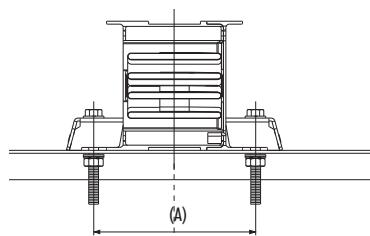
Edgewise installation

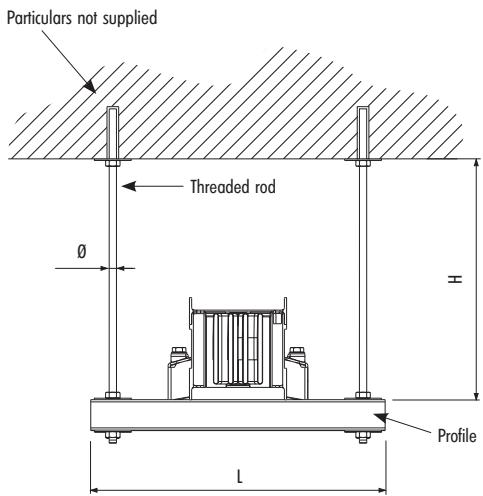
Torque moment \approx 25 Nm

installation

Flat installation

(A)		
800A	Cu	170
1000A	Cu	170
1250A	Cu	205
1600A	Cu	235
2000A	Cu	255
2500A	Cu	343

Torque moment \approx 25 Nm

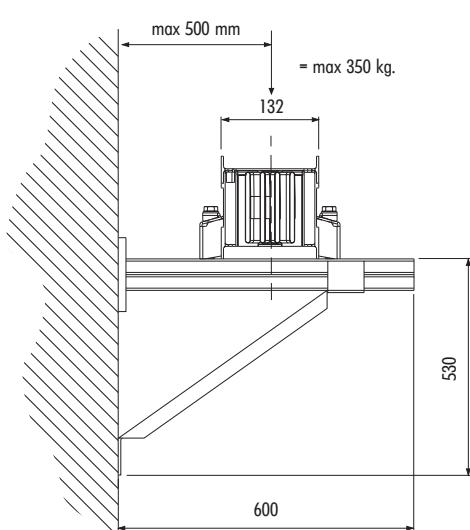
**Ceiling**

This unit is used to suspend the busbar trunking on horizontal runs.

Code	L mm	H max mm	\varnothing mm	kg max mm
Complete bracket IMX00801AAA	600	800	M10	350
Complete bracket IMX00802AAA	600	2800	M10	350
Profile IMX00803AAA	3000	-	-	-
Threaded rod IMX00804AAA	-	3000	M10	-
Threaded rod IMX00805AAA	-	3000	M12	-



The universal bracket is not included

**Wall**

This unit is used to suspend the busbar trunking on horizontal runs.

code	IMX00821AAA
------	-------------



The universal bracket is not included

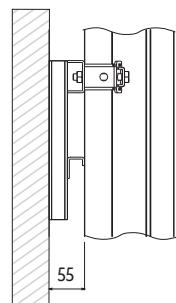
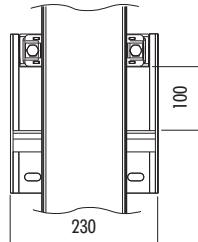
Custom-made

For custom-made solutions, please contact our technical department.

code	IMX00811AAA
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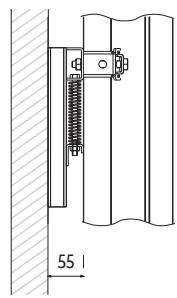
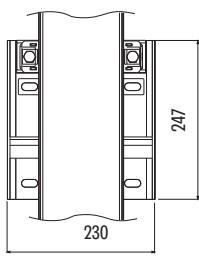
FOR VERTICAL RUNS (HIGH-RISE)

These units are used to suspend the busbar trunking on vertical runs fixing them to the wall.



Bracket for vertical run alignment

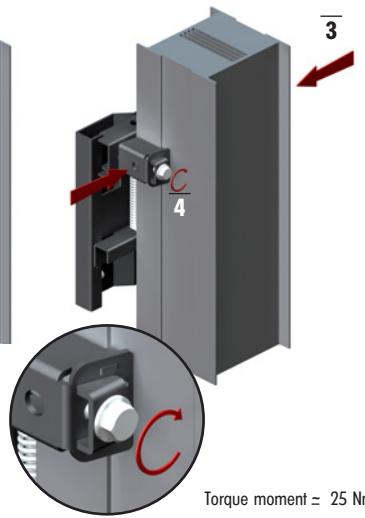
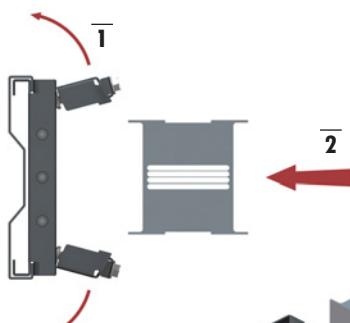
IMX00720AAA



Fixing unit for vertical runs

IMX00730AAA

installation

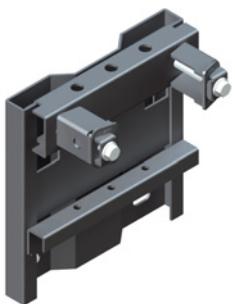
Torque moment \approx 25 Nm

VERTICAL BRACKETS INSTALLATION SCHEME

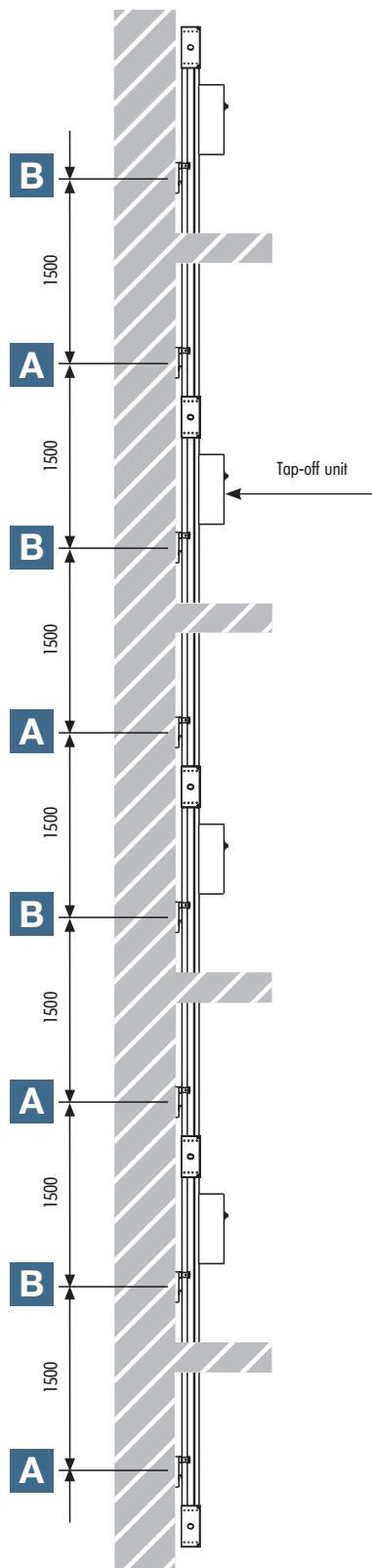
The fixing unit with springs is used to suspend the busbar (it is the device that supports the busbar) while the alignment unit is used to maintain the busbar in line along its own axis.

It is necessary to install the brackets along the vertical run using at least one spring bracket for each single straight element, insert an alignment bracket between (the inter axis suggested is 1,5m) as indicated in the plan 3 even in this case the inter axis suggested is 1,5 m).

A Alignment unit



B Spring fixing unit



It is very important that each single spring bracket is not carrying a load superior to 150kg.

The verification must be done dividing the total weight of the line (the busbar trunking run weight plus the possible future tap-off units) for the number of spring brackets as indicated in the following formula:

$$\frac{P}{N} = \begin{aligned} & \text{total busbar trunking run weight (calculated according to plan 1)} \\ & \text{plus the weight of all the tap-off units programmed and the} \\ & \text{future ones (calculated according to the plan 2)} \\ K &= \text{max load for each fixing unit with springs (150KG)} \\ N &= \text{number of spring fixing units} \\ P &= < 150\text{kg (K)} \end{aligned}$$

Alignment unit

Spring fixing unit

In case the load on each single bracket is superior to 150 kg, it is necessary to increase their number reducing the number of alignment brackets.

Conductor weight

Cu	Kg/m
800A	32
1000A	32
1250A	39
1600A	46
2000A	54
2500A	67

Tap-off unit weight

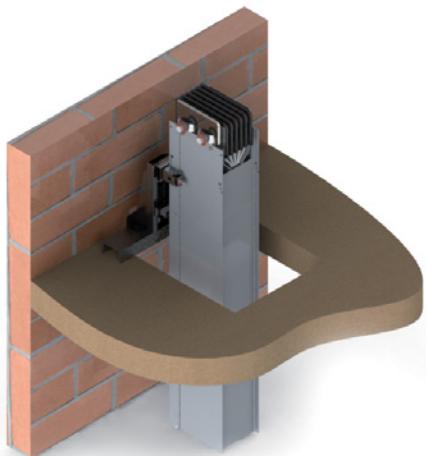
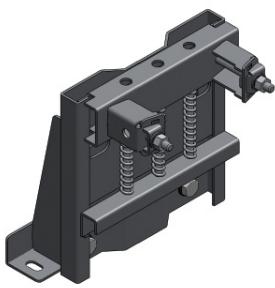
	Kg
125A	30
250A	35
400A	45
630A	55
800A	60
1000A	65
1250A	70

FOR VERTICAL RUNS (HIGH-RISE) FLOOR FIXING

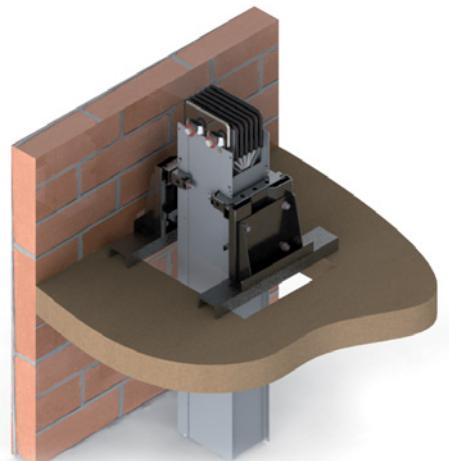
This unit is used to suspend the busbar trunking vertical run, fixing them to the floor. The bracket can be used as single with a max load of 150kg or double with a max load of 300kg. The bracket can be fixed directly on the floor or on a support profile (not included).

Floor bracket fixing

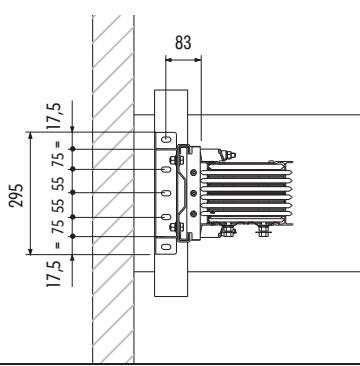
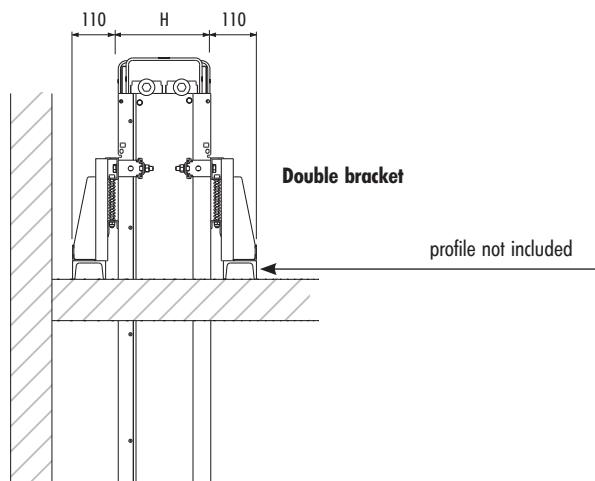
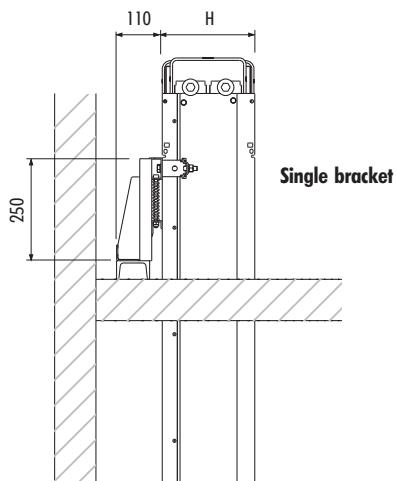
IMX00740AAA



Single bracket (max 150kg)



Double bracket (max 300kg)



(H) dimensions	
(H)	Cu mm
800A	139
1000A	139
1250A	174
1600A	204
2000A	224
2500A	312

(Y) 5P GAA mm	
	154

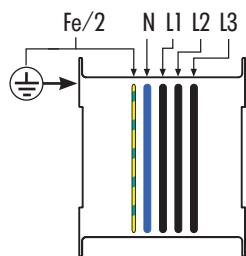


For correct dimensions, please contact our technical department.

(GAA)

3P + N + FE/2 + PE

Cu



The technical data for each rating is obtained from the results of tests carried out according to IEC-EN 61439-1/6 and shown in the LOVAG Certificates. No data are obtained from extrapolation.

Rated current	A (50°C/55°C)	800	1000	1250	1600	2000	2500
General Information							
Reference Standard	IEC-EN 61439-1 / IEC-EN 61439-6						
Rated Operational Voltage - U _n	V		1000				
Rated Insulation Voltage - U _i	V		1000				
Frequency	Hz		50				
Protection degree	IP 55 (on request IP66)						
Currents permitted							
Phase rated short-circuit withstand (1s) - I _{sw}	60	60	80	80	90	93	
Phase rated peak short-circuit withstand (1s) - I _{pk}	132	132	176	176	198	205	
Conduttori attivi - Conductors							
Minimun phase cross section	mm ²	570 (6x95)	570 (6x95)	650 (5,2x130)	840 (5,3x160)	1040 (5,8x180)	1360 (2x5,3x130)
Minimun neutral cross section	mm ²	570	570	650	840	1040	1360
Phase resistance - R ₂₀	mΩ/m	0,034	0,034	0,032	0,029	0,021	0,017
Phase reactance - X	mΩ/m	0,016	0,016	0,016	0,012	0,009	0,009
Phase impedance - Z	mΩ/m	0,051	0,051	0,044	0,033	0,029	0,021
Phase resistance at thermal conditions - R _t ⁽¹⁾	mΩ/m	0,048	0,048	0,041	0,031	0,028	0,019
Protection conductor (casing)							
Cross-section (Enclosure)	mm ²	1388	1388	1627	1929	2083	2955
Cross-section (=Cu) (Enclosure)	mm ²	833	833	976	1157	1250	1773
Earth conductor (FE)							
Cross-section	% _{ph}	50	50	50	50	50	50
Others features							
Fault loop resistance - R _{o Ph-Ph (1)}	mΩ/m	0,127	0,127	0,114	0,110	0,091	0,076
Fault loop reactance - X _{o Ph-Ph (1)}	mΩ/m	0,075	0,075	0,077	0,076	0,063	0,052
Fault loop impedance - Z _{o Ph-Ph (1)}	mΩ/m	0,147	0,147	0,137	0,134	0,110	0,092
Fault loop resistance - R _{o Ph-PE (1)}	mΩ/m	0,126	0,126	0,119	0,116	0,093	0,099
Fault loop reactance - X _{o Ph-PE (1)}	mΩ/m	0,063	0,063	0,081	0,061	0,061	0,038
Fault loop impedance - Z _{o Ph-PE (1)}	mΩ/m	0,140	0,140	0,144	0,131	0,111	0,106
	cosφ = 0,70	38,95	38,95	34,71	26,18	22,51	17,31
	cosφ = 0,75	40,29	40,29	35,75	26,98	23,31	17,74
	cosφ = 0,80	41,52	41,52	36,68	27,68	24,05	18,10
Voltage drop - ΔV with distributed load	cosφ = 0,85 [V/m/A]10 ⁻⁶	42,58	42,58	37,44	28,26	24,69	18,36
	cosφ = 0,90	43,40	43,40	37,95	28,66	25,19	18,50
	cosφ = 0,95	43,77	43,77	38,01	28,72	25,44	18,37
	cosφ = 1	41,52	41,52	35,47	26,82	24,22	16,78
Weight	Kg/m	32	32	39	46	54	67
Overall dimensions	mm (LxH)	154x139	154x139	154x174	154x204	154x224	154x312
Fire load	kWh/m	2,56	2,56	3,20	3,63	4,10	5,41
For each outlet point	kWh	1,05	1,05	1,05	1,05	1,05	1,05
Joule effect losses at nominal current	W/m	92	144	192	238	336	356



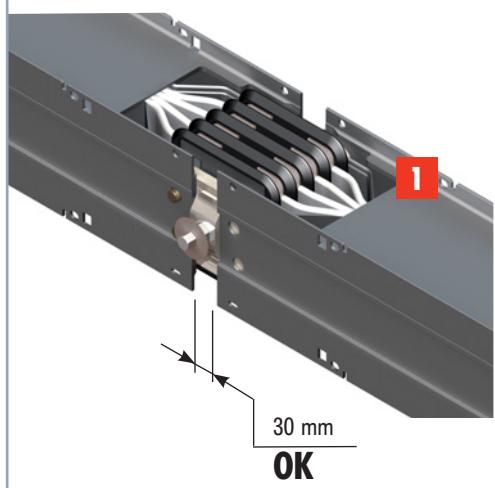
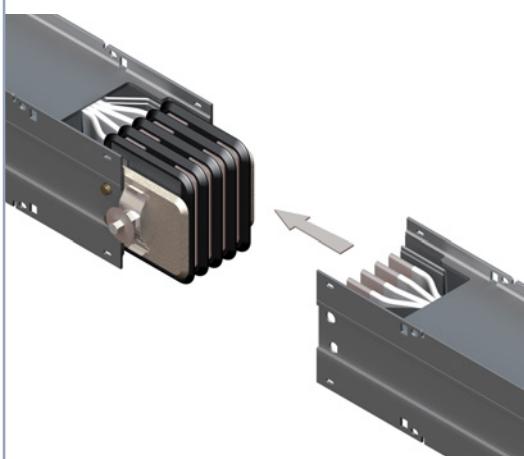
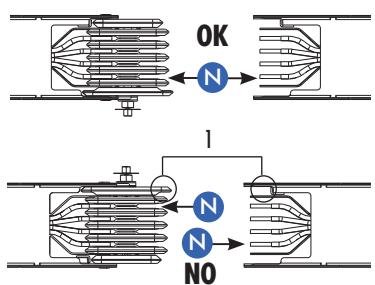
K = 1

k = 1

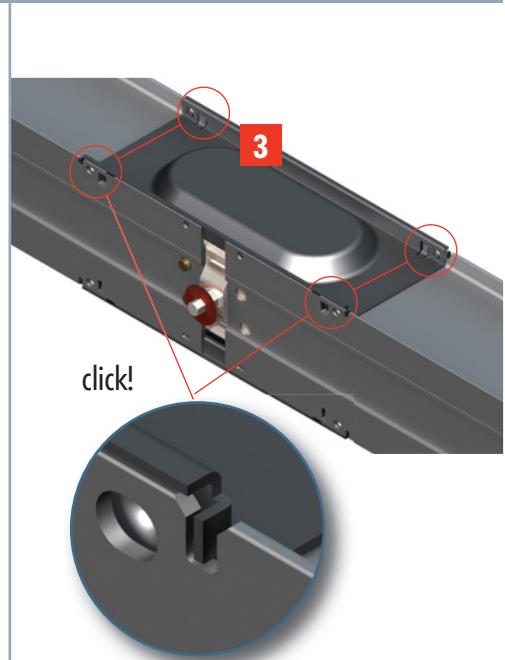
K = 1

A

Insert the two units respecting the neutral position mechanical device [1].

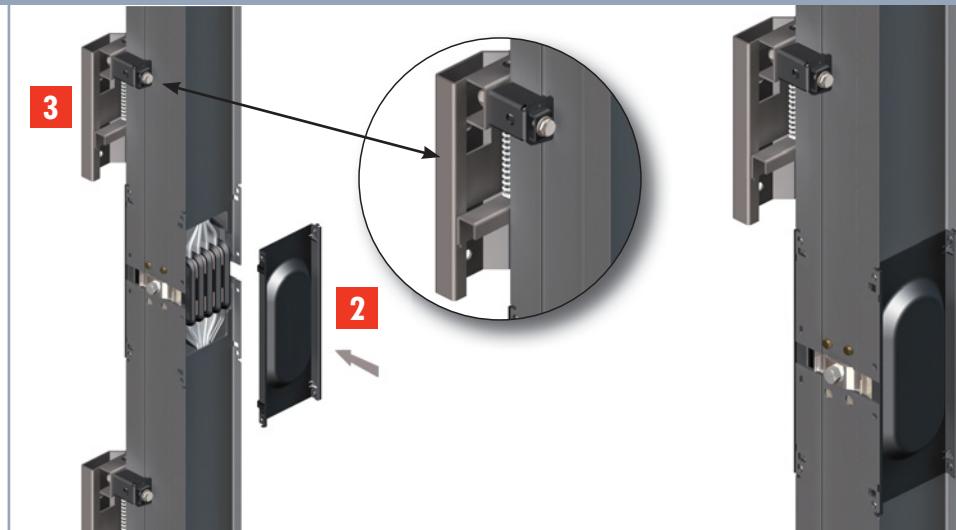
**B**

Check the units alignment and assembling the joint cover [2] assuring the correct coupling [3].

**B 1**

For vertical runs:

Before proceed with the monoblock tightening (point C) fix the unit with the fixing unit [3].

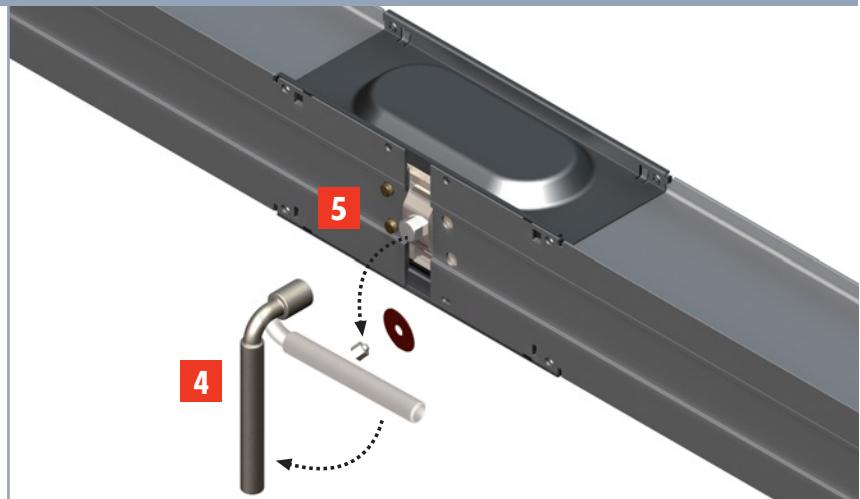


C

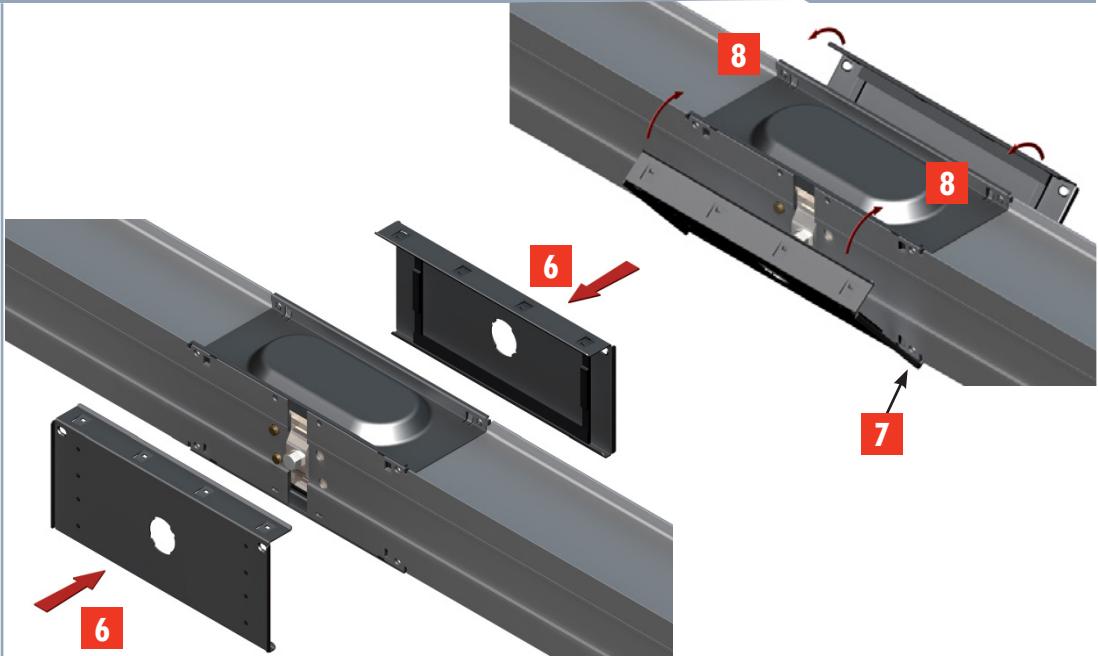
Tighten the monoblock [4] using the bolt/s until it/they automatically shear [5] when the nominal torque moment will be achieved (~ 85 Nm).



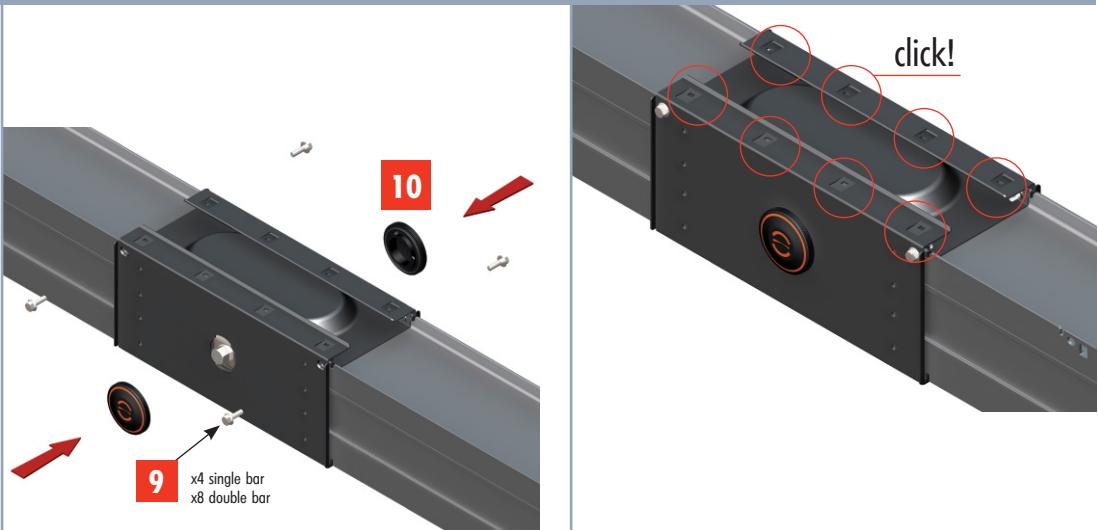
Maintenance-free monoblock

**D**

Assembling the side cover [6]. First connect it to the busbar joint from the bottom [7]; then turn the cover and fix it on pushing in by pressure [8].

**E**

Check that the covers are correctly assembled. Tighten the screws (9) and then insert the side cap(10).



NOTES

NOTES



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