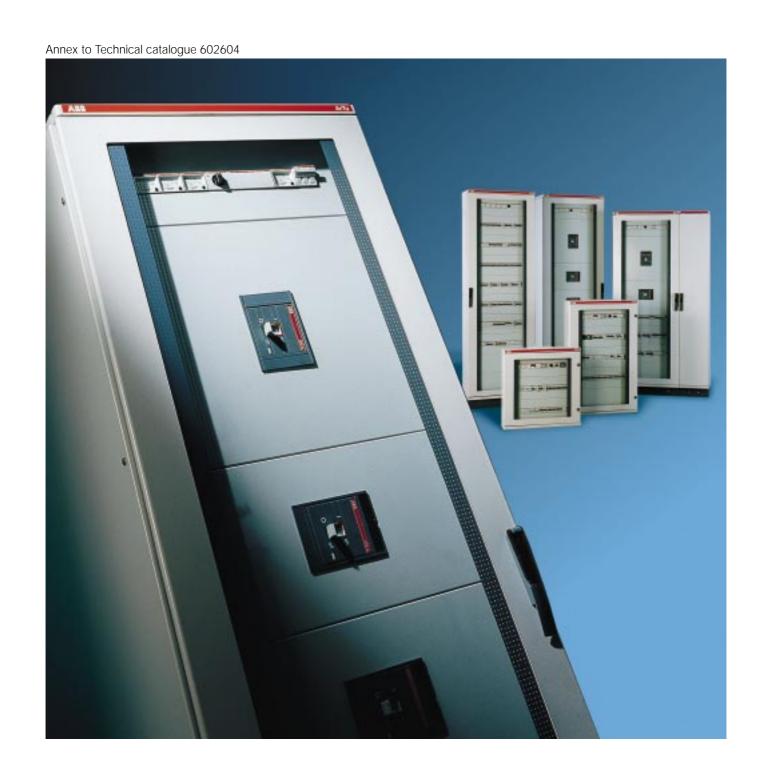
Technical catalogue

604103/011 en July '99

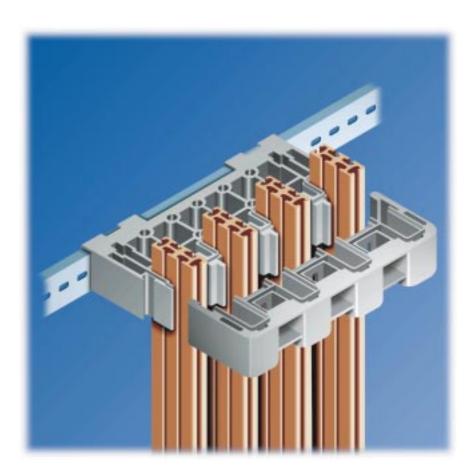
ArTu[®] **Distribution switchboards**

Cabling systems





ArTu Cabling systems



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The ArTu system is even more complete and functional

With the new system of shaped profile busbars, the ArTu switchboards for low voltage electrical distribution further enhance the value of perfect integration with ABB SACE L.V. and ABB Elettrocondutture apparatus and with ABB LucaSystem accessories.

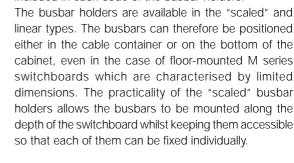
In full compliance with the CEI 17-3 Standard, the ArTu switchboards including these products and complete with the new busbar system, can be certified simply by carrying out the individual tests.

Assembly of the busbars has been considerably simplified and made more rapid compared with standard distribution systems. The number of product codes has been reduced.

With just three types of busbar, all applications up to 1600A can be satisfied, whereas up to 800A a single model of busbar can be used, applicable both to ArTu K series and floor-mounted ArTu M series of switchboards.

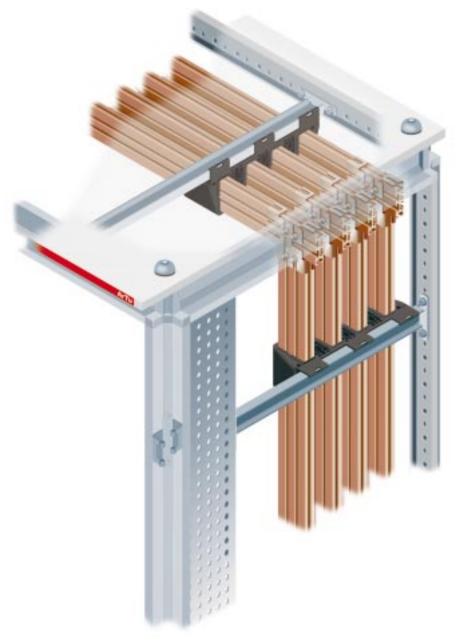
Each single code fully and univocally identifies a specific function of the components, without the need for further kits or accessories. In particular, the fixing screws are included in each code of the busbar holders.

linear types. The busbars can therefore be positioned either in the cable container or on the bottom of the cabinet, even in the case of floor-mounted M series switchboards which are characterised by limited dimensions. The practicality of the "scaled" busbar holders allows the busbars to be mounted along the depth of the switchboard whilst keeping them accessible





Thermal dissipation The shaped profile of the busbars has a larger surface than the rectangular sections, so the thermal exchange is higher with the same capacity and, consequently, cooling is facilitated.



The busbar holders are made of moulded insulating material and ensure maximum resistance to electrodynamic stresses in the most serious cases of short-circuit. The busbar holders are universal and can be used either in intermediate positions on the busbars or in the end position. In the latter case, the special resting base is used which, being housed in the busbar seat, has a supporting function.

They are also fitted with elastic hooks for positioning on the crosspieces.

The **universal joint** allows construction of 90° connections between the busbars, with both T and L joints, allowing distribution between busbars positioned horizontally and vertically inside the switchboard. The design of this support also offers the maximum surface for current passage, reducing the contact resistance to a minimum.

Another joint allows integration between the busbars with shaped profile and the traditional flat busbars, ensuring maximum flexibility.

This is useful, for example, for currents higher than 1600A, where it is necessary to use a mixed system, consisting of busbars with profiles and flat busbars.



The advantages of the new busbar system

- Integration with the ArTu swithboards:
 The ArTu switchboards and the busbar system have been developed along a single basic project
 Every component of the busbar system has its fixing area and its housing in the switchboards
- Rapid couplings:
 Crosspieces, busbar holders and busbars are easily assembled-the components remain in position after the first hooking up operation. This means the busbar can be mounted by a single operator
- Functionality:
 Reduced number of product codes. Each busbar model is present for a wide range of currents
- Universal system:
 Busbars with shaped profiles can be integrated with traditional flat busbars in the same switchboards

Hammer screw

A single hammer screw, which slides inside the profile, allows fixing between conductors (busbars or cables) and so there is no need for further drilling, but simply by means of this screw, any other conductor can be fastened along the busbars.

The hammer screw has the characteristic of not having moving parts. This means that the widest possible surface is ensured for passage of current with minimum contact resistance. It can be used up to a capacity of 1600A, always with maximum guarantee of current continuity.

Busbar profile

The profile allows the busbars to be attached to the relative busbar holders. The assembly phases are therefore carried out without screws and only require a single operator.

Rationality and assembly safety

A single technician can carry out all the assembly stages, which can be summarised as follows: positioning of the busbar holders on the relative crosspieces, positioning of the resting bases on the end busbar holders and clicking in of the busbars.

Each phase in the sequence can be carried out without having to tighten the screws. This operation must only be carried out on conclusion of assembly to ensure resistance to the electrodynamic stresses in the case of a short-circuit.

The availability of a busbar system specially created for the ArTu switchboards also means a reduction in costs and facilitates certification of the switchboards. In fact, the busbars are already "sized" for the switchboards, so there is no risk of oversizing or undersizing, nor does the switchboard expert have to make any adaptations.



The busbars are dove-tailed in position before being finally fixed.



PB 0802 scaled insulator with busbars up to 800A.

Composition of the range

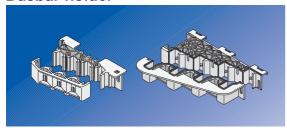
Busbars



Code	Description	(Capacity (A)		
		IP 30	IP 40	IP 55	
BA 0800	Busbar In= 800A	970	830	800	
BA 1250	Busbar In=1250A	1400	1330	1250	
BA 1600	Busbar In=1600A	1820	1710	1600	

The busbars are fitted with the resting bases at the ends.

Busbar holder



Scaled busbar holder

Code	Description			
PB 0802	Scaled busbar holder In=800A			
PB 1600	Scaled busbar holder up to In=1600A			



Linear busbar holder

Code	Description
PB 0803	Linear busbar holder In=800A
PB 1601	Linear busbar holder In=1600A
PB 1603	Linear busbar holder In=1600A (65 kA)

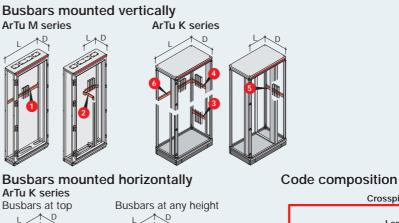
Adapter for busbars In=800A

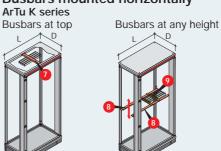
rtaaptor tor backare iii ooort						
Code	Description					
AD 1066	Adapter for busbars In=800A					
	with busbar holder up to 1600A					

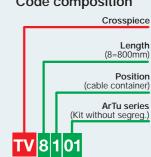
Accessories

ACCESSOLIES				
Code	Description			
AD 1062	Universal joint for busbars with profile			
AD 1063	Joint for busbars with profile and flat busbars			
AD 1064	Holding screw			
AD 1065	800A busbar resting base			
AD 1067	1600A busbar resting base			

Crosspieces for fixing to the structure



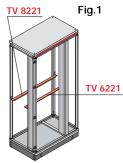


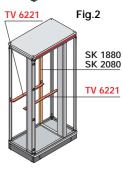


Code	Description
ArTu M serie	s
busbars on th	e bottom of the structure/external cable container
TR 3001	External cable container crosspiece L=300mm
TV 6200	Structure crosspiece L=600mm
TV 8200	Structure crosspiece L=800mm
	he side of the structure with functional frame
TV 2000	Internal cable container crosspiece L=200mm
ArTu K series	5
busbars on tl	ne side of the structure with functional frame
TV 6001	Open frame structure crosspiece D=600mm
TV 8001	Open frame structure crosspiece D=800mm
TV 6005	Segreg. frame struc. crosspiece D=600mm
TV 8005	Segreg. frame struc. crosspiece D=800mm
busbar in the	cable container on the side
TV 3101	Inter./exter. cable cont. crosspieces D=350mm
TV 6101	Inter./exter. cable cont. crosspieces D=600mm
TV 8101	Inter./exter. cable cont. crosspieces D=800mm

TV 8101	6	Inter./exter. cable cont. crosspieces D=800mm				
busbars on the back of the structure						
TV 2201	6	External cable container crosspieces L=200mm				
TV 3201	6	External cable container crosspieces L=300mm				
TV 6201	6	Structure crosspieces L=600mm				
TV 8201	6	Structure crosspieces L=800mm				
TV 6203	6	Structure crosspieces L=600mm for				
		connection with Unifix H system				
TV 8203	6	Structure crosspieces L=800mm for				
		connection with Unifix H system				
busbars h	orizon	tally at the top				

TV 8211	0	Structure crosspieces L=800mm		
TV 6211	0	Structure crosspieces L=600mm		
busbars h	orizor	ntally at any height (*)		
TV 6221	8	Functional frame struc. crosspieces L=600mm		
TV 8221	8	Functional frame struc. crosspieces L=800mm		
TV 6011	9	Structure crosspieces P=600mm		
TV 8011	9	Structure crosspieces P=800mm		

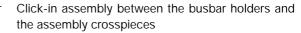


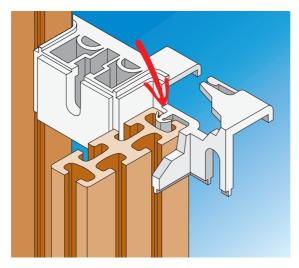


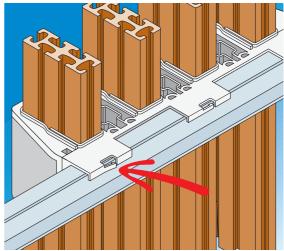
(*) With L=800mm structures with internal cable container, use a TV 6221 crosspiece with a TV 8221 crosspiece as in fig. 1, or two TV 6221 crosspieces with the intermediate SK 1880 or SK 2080 upright in fig. 2.

Construction details

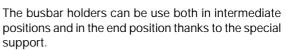
Click-in assembly between the busbars and busbar holders

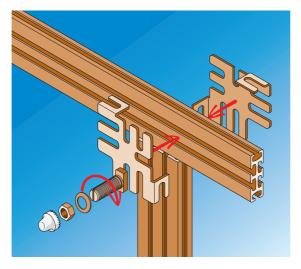


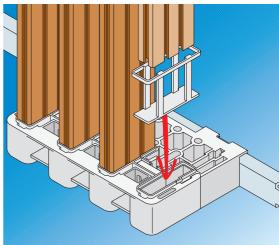




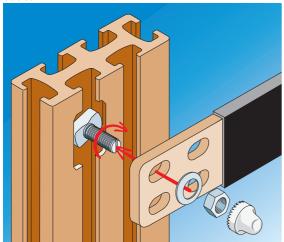
Universal joint for 90° connections between the busbars



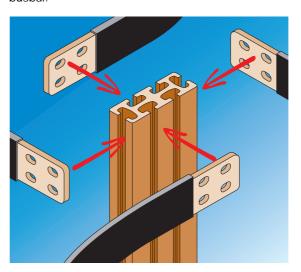




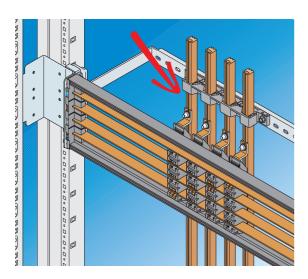
One self-locking hammer screw allows all the fixing between conductors in any position along the busbar.



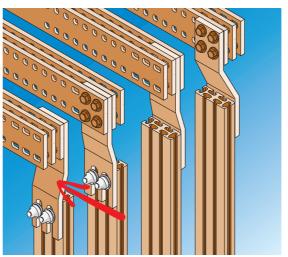
Connections can be made on all sides of the busbar.



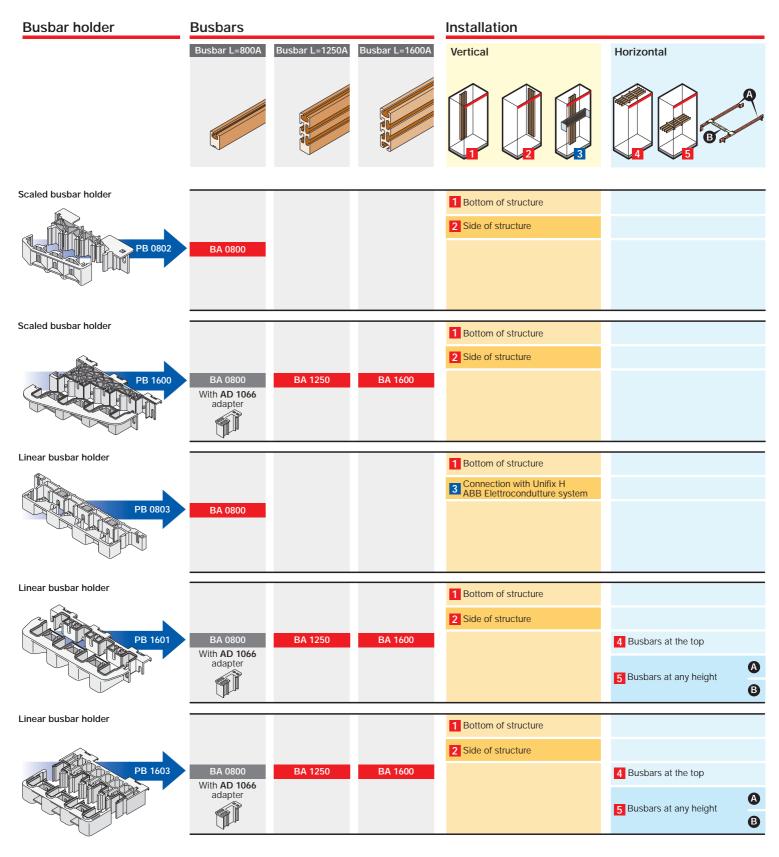
Direct connection with Unifix H system.

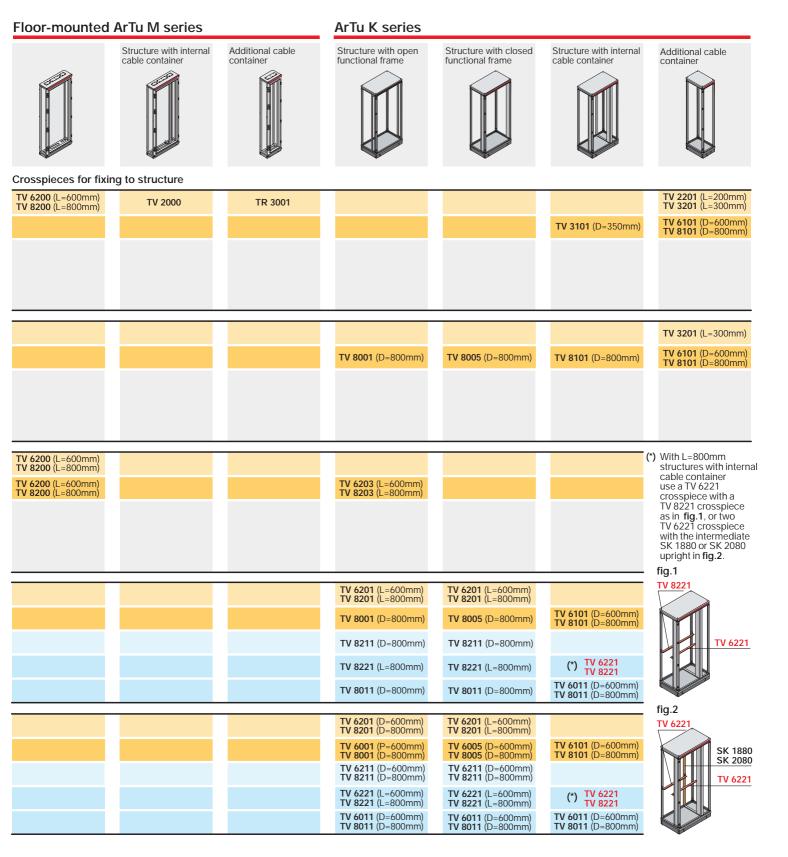


Possibility of joining busbars with profiles and flat busbars



Selection table





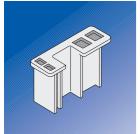
System for currents up to 800 A



Busbars with shaped profile for applications up to 800A

A single model of busbar is used up to 800A, adapted both for the ArTu K series and floor-mounted ArTu M series switchboards. By using the correct number of busbar holders, resistance to the electrodynamic stresses caused by short-circuit is guaranteed. The busbars can be installed either in the cable container or on the bottom of the structure.

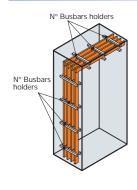
AD 1066



Description	N° busbar	Capacity (A)		Busbar		Busbar holder			
	per phase	IP 30	IP 55	code		code			
						Scaled	Linear		
Busbar In=800A	1	970	800	BA 0800	\Rightarrow	PB 0802 - PB1600	PB 0803 - PB 1601 - PB 1603		
							_		
Description						Co	odice		

Table for selection and assembly of busbars and busbar holders

Adapter for busbars up to 800A with busbar holder up to 1600A



Note

When scaled **PB 1600** busbar holders are used mounted on the left in the structure, it is not possible to use the click-in coupling with the crosspiece.

Capacity	Busbar holder	N° busbar per phas	se N	° busbar holders			
			ac	ccording to the max lcv	V		
(A)	code		25 kA	35 kA	50 kA	65 kA	75 kA
	Linear						
800A	PB 0803	1	4	5	-	-	-
800A	PB 1601 (*)	1	3	3	4	5	6
800A	PB 1603 (*)	1	3	3	4	5	-
	Scaled						
800A	PB 0802	1	4	5	-	-	-
800A	PB 1600 (*)	1	3	3	3	3	5

^(*) Can be used with busbars up to 1600A

PB 0802 scaled insulator

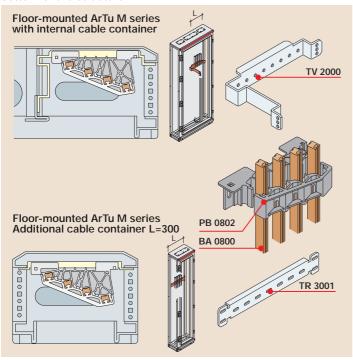
Connection to the Unifix H system

Assembly on the left on the right

connection to the Unitix H system	
Floor-mounted ArTu M series L=≥600	ArTu K series L=≥600
BA 0800 TV 6200 (L=600mm) TV 8200 (L=800mm)	BA 0800
PB 0803	TV 6203 (L=600mm) TV 8203 (L=800mm)

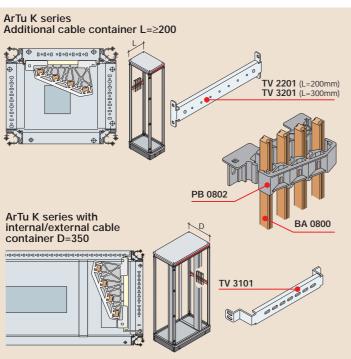
PB 0802 scaled insulator

Busbars positioned vertically in the cable container on the bottom of the structure



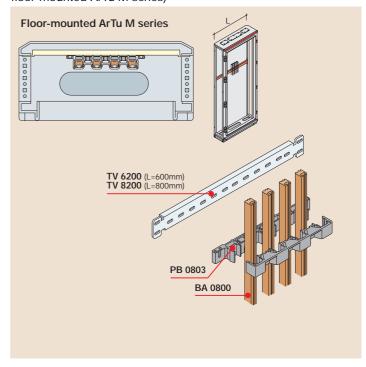
PB 0802 scaled insulator

Busbars positioned vertically on the rear in the additional cable container and on the side in the internal cable container of the structure



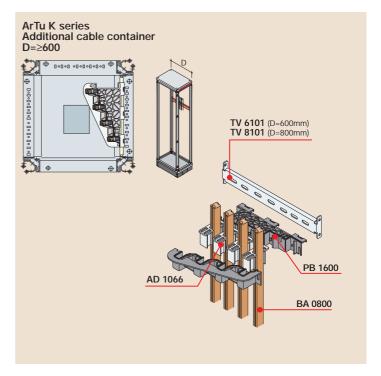
PB 0803 linear insulator

Busbars positioned vertically on the rear of the structure (only floor-mounted ArTu M series)



PB 1600 scaled insulator

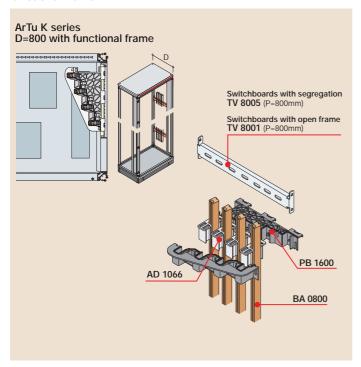
Busbars positioned vertically on the side in the additional cable container of the structure



System for current up to 800 A

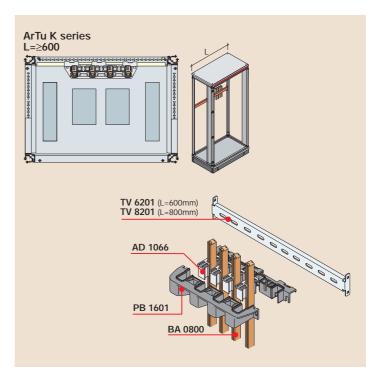
PB 1600 scaled insulator

Busbars positioned vertically on the side of the structure with functional frame



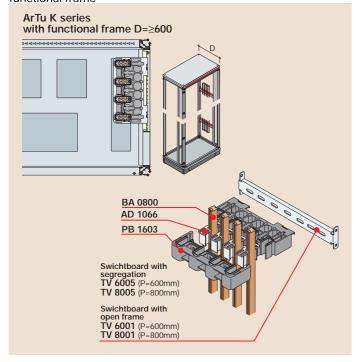
PB 1601 linear insulator

Busbar positioned vertically on the rear of the structure

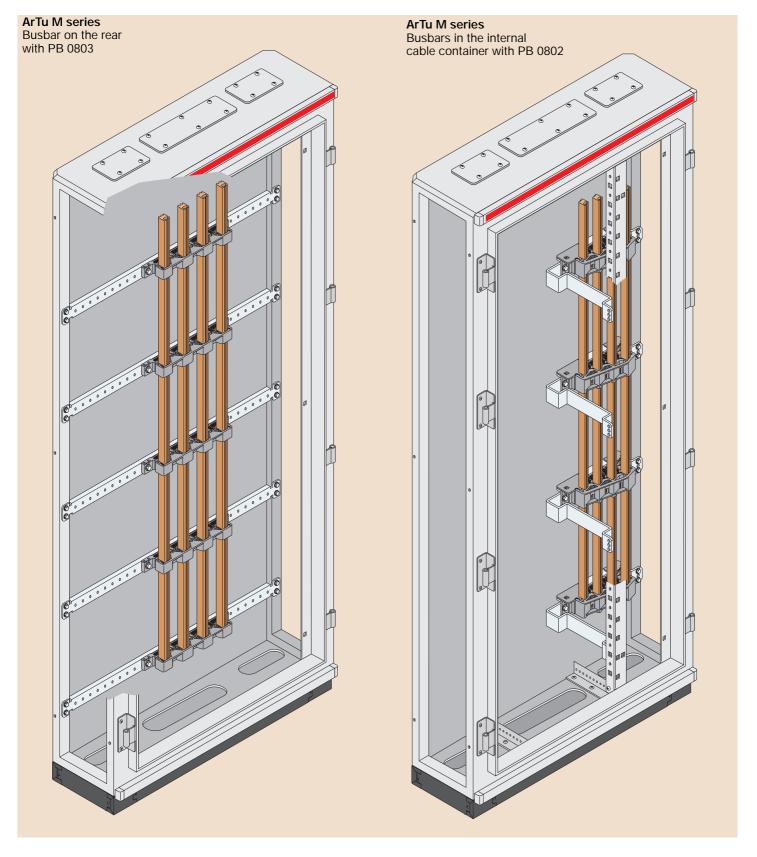


PB 1603 linear insulator

Busbars positioned vertically on the side of the structure with functional frame



Examples of application



System for currents up to 1250 A



Busbars with shaped profile for applications up to 1250A

he busbars for currents up to 1250A are applied in the ArTu K series switchboards and can be integrated with both the busbars for currents up to 800A and with those for currents up to 1600A. They can also be integrated with the flat busbar distribution systems.

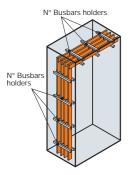
Busbars up to 800A can be mounted with the insulators up to 1600A using the special adapter **AD 1066**



Description I	Neutral busbar	N° busbar		Capacity	,	Phase busbar		Busbar holder		
Barre fase	[A]	per phase		[A]		code		code		
L1, L2, L3			IP 30	IP 40	IP 55	L1, L2, L3		Linear Sca		
Barra In=800A	800	1	970	830	800	BA 0800	\Rightarrow	⇒ PB 1601-PB 1603 P		
Barra In=1250	800	1	1400	1330	1250	BA 1250	\Rightarrow	PB 1601-PB 1603	PB 1600	

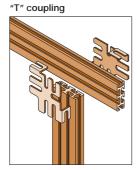
Description	Codice	
Adapter for busbars up to 800A with busbar holder up to 1600A	AD 1066	

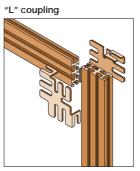
Table for selection and assembly of busbars and busbar holders

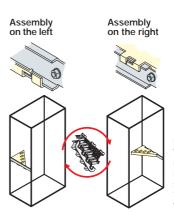


Capacity	Busbar holder	N° busbar per phase	N° busbar holders according to the max Icw					
(A)	cod.		25 kA	35 kA	50 kA	65 kA	75 kA	
	Lineare							
800A	PB 1601	1	3	3	4	5	6	
800A	PB 1603	1	3	3	4	5	-	
1250A	PB 1601	1	3	3	5	6	8	
1250A	PB 1603	1	3	4	6	9	-	
	Scalare							
800A	PB 1600	1	3	3	3	4	5	
1250A	PB 1600	1	3	3	4	7	8	

Examples of coupling



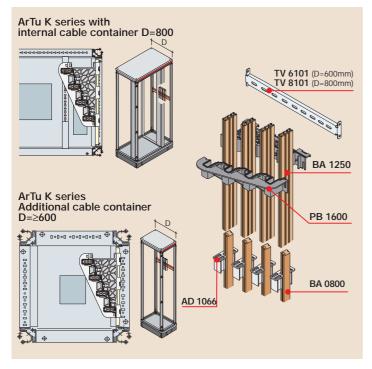




Note
When scaled PB 1600
busbar holders are used
mounted on the left in the
structure, it is not possible
to use the click-in coupling
with the crosspiece.

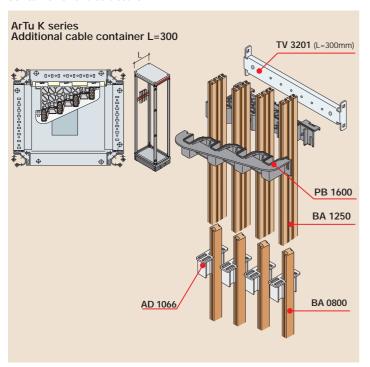
PB 1600 scaled insulator

Busbars positioned vertically on the side in the internal or external cable container of the structure



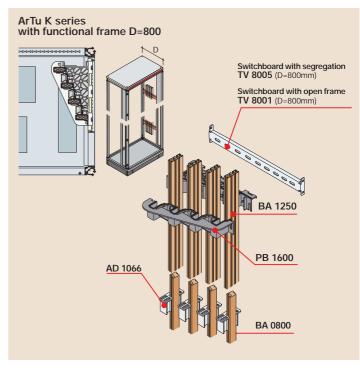
PB 1600 scaled insulator

Busbars positioned vertically on the bottom in the external cable container of the structure



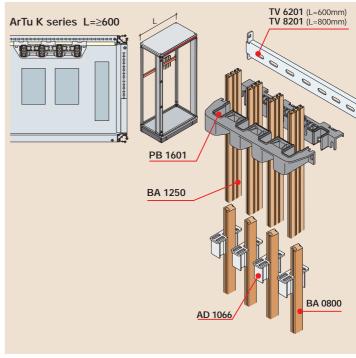
PB 1600 scaled insulator

Busbars positioned vertically on the side of the structure with functional frame



PB 1601 linear insulator

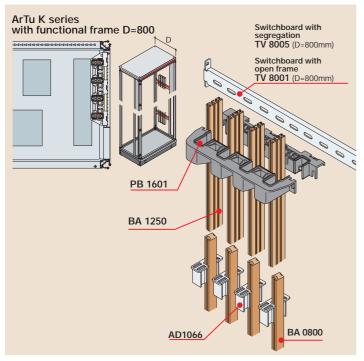
Busbars positioned vertically on the bottom of the structure



System for currents up to 1250 A

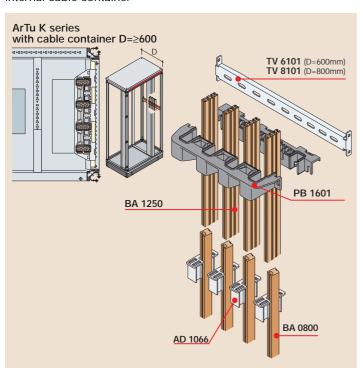
PB 1601 linear insulator

Busbars positioned vertically on the side of the structure with functional frame



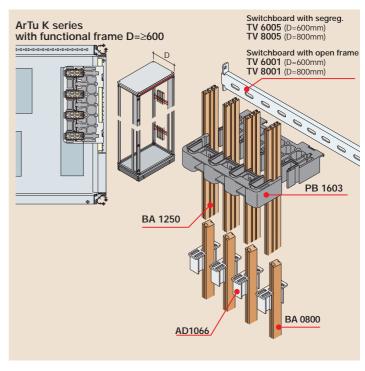
PB 1601 linear insulator

Busbars positioned vertically on the side of the structure with internal cable container



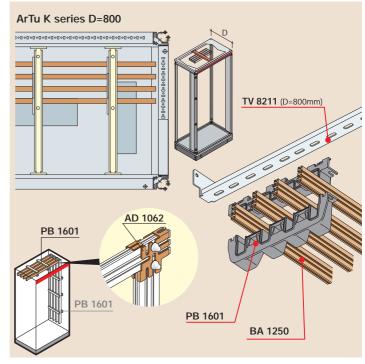
PB 1603 linear insulator

Busbars positioned vertically on the side of the structure with functional frame



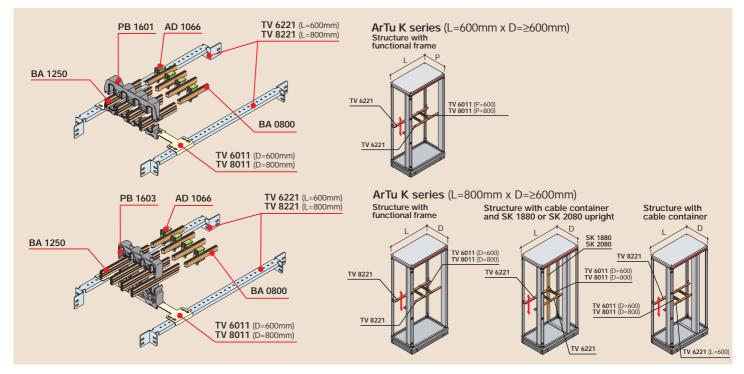
PB 1601 linear insulator

Busbars positioned horizontally at the top in the structure



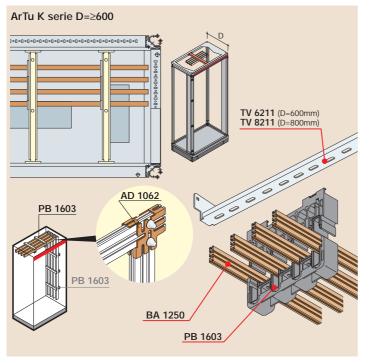
PB 1601 / PB 1603 linear insulator

Busbars positioned at any height in the structure

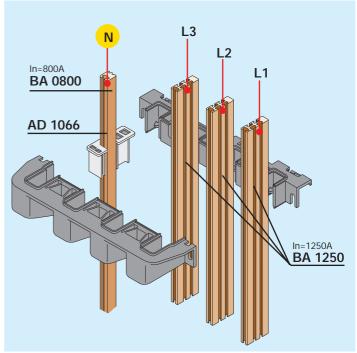


PB 1603 linear insulator

Busbars positioned horizontally at the top in the structure



Example of use of the neutral busbar (800A) with busbar up to 1250A.



System for currents up to 1600 A



Busbars with shaped profile for applications up to 1600A

The busbars for currents up to 1600A are applied in the ArTu K series switchboards and allow simple construction of Power Center switchboards. They can be integrated both with the busbars for currents up to 1250A and with the flat busbar distribution systems. In the latter case, they allow the applications up to 3200A for which the switchboards have been certified to be constructed.

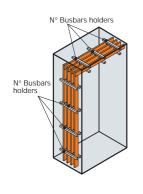
Busbars up to 800A can be mounted with the insulators up to 1600A using the special adapter **AD 1066**



Description Neutral busbar N° busbar				Capacity Phase busbar				Busbar holder		
Phase busbar	[A]	per phase		[A]		code		code		
L1, L2, L3			IP 30	IP 40	IP 55	L1, L2, L3		Linear	Scaled	
Busbar In=800A	800	1	970	830	800	BA 0800	\Rightarrow	PB 1601-PB 1603	PB 1600	
Busbar In=1250A	800	1	1400	1330	1250	BA 1250	\Rightarrow	PB 1601-PB 1603	PB 1600	
Busbar In=1600A	1250	1	1820	1710	1600	BA 1600	\Rightarrow	PB 1601-PB 1603	PB 1600	

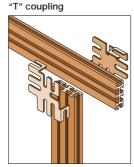
Description	Codice
Adapter for busbar up to 800A with busbar holder up to 1600A	AD 1066

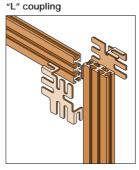
Table for selection and assembly of busbars and busbar holders

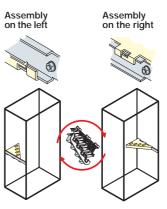


Capacity	Busbar	N° busbar per phase	N° busbar					
			holders according to the max Icw					
(A)	code		25 kA	35 kA	50 kA	65 kA	75 kA	
	Linear							
800A	PB 1601	1	3	3	4	5	6	
800A	PB 1603	1	3	3	4	5	-	
1250A	PB 1601	1	3	3	5	6	8	
1250A	PB 1603	1	3	4	6	9	-	
1600A	PB 1601	1	3	4	5	7	9	
1600A	PB 1603	1	4	5	7	9	-	
	Scalare							
800A	PB 1600	1	3	3	3	4	5	
1250A	PB 1600	1	3	3	4	7	8	
1600A	PB 1600	1	3	4	5	7	8	

Examples of coupling



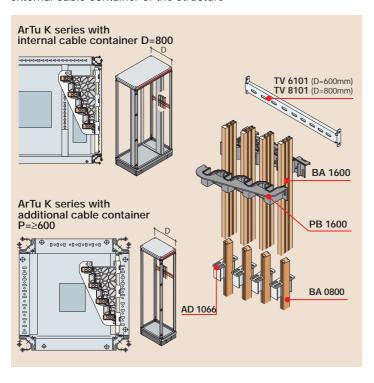




Note
When scaled PB 1600
busbar holders are used
mounted on the left in the
structure, it is not possible
to use the click-in coupling
with the crosspiece.

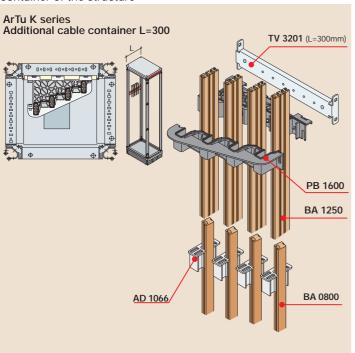
PB 1600 scaled insulator

Busbars positioned vertically on the side in the internal or external cable container of the structure



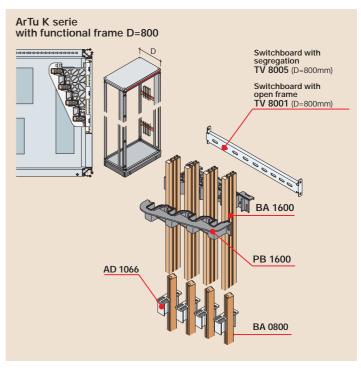
PB 1600 scaled insulator

Busbars positioned vertically on the bottom in the external cable container of the structure



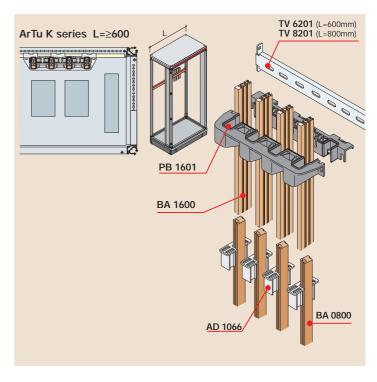
PB 1600 scaled busbar

Busbars positioned vertically on the side of the structure with functional frame



PB 1601 linear insulator

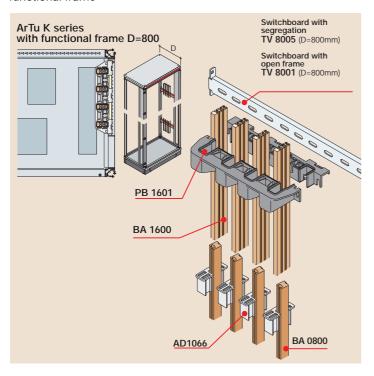
Busbars positioned vertically on the bottom of the structure



System for currents up to 1600 A

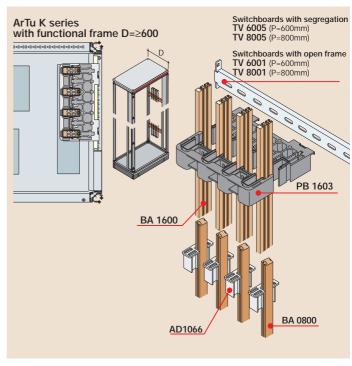
PB 1601 linear insulator

Busbars positioned vertically on the side of the structure with functional frame



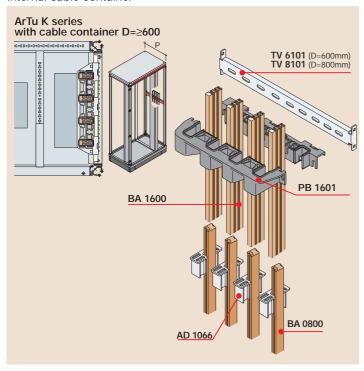
PB 1603 linear insulator

Busbars positioned vertically on the side of the structure with functional frame



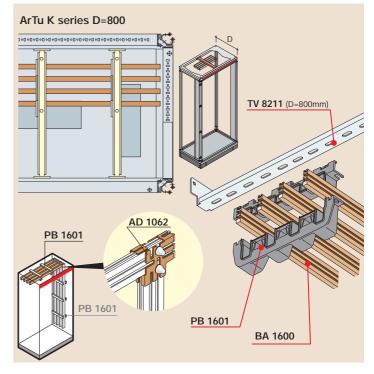
PB 1601 linear insulator

Busbars positioned vertically on the side of the structure with internal cable container



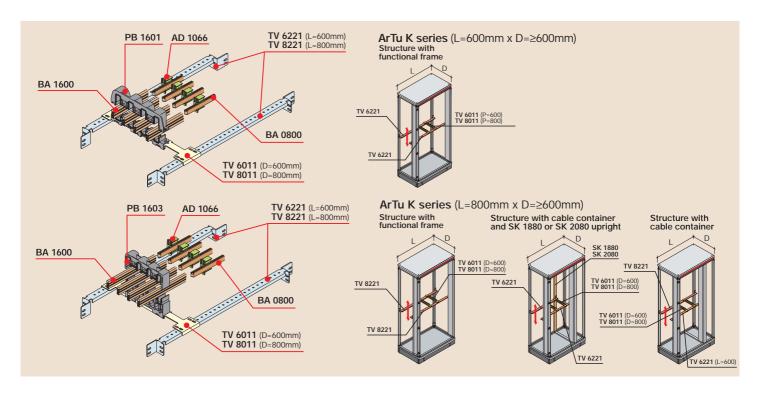
PB 1601 linear insulator

Busbars positioned horizontally at the top in the structure



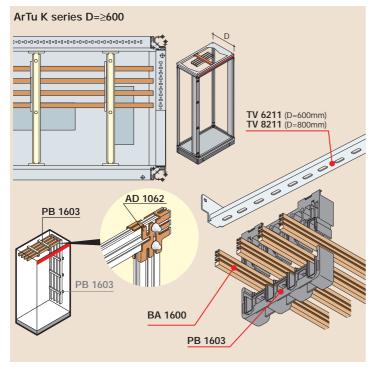
PB 1601 / PB 1603 linear insulator

Busbars positioned at any height in the structure

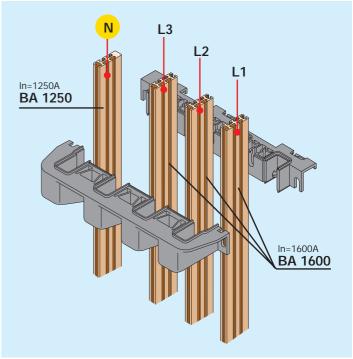


PB 1603 linear insulator

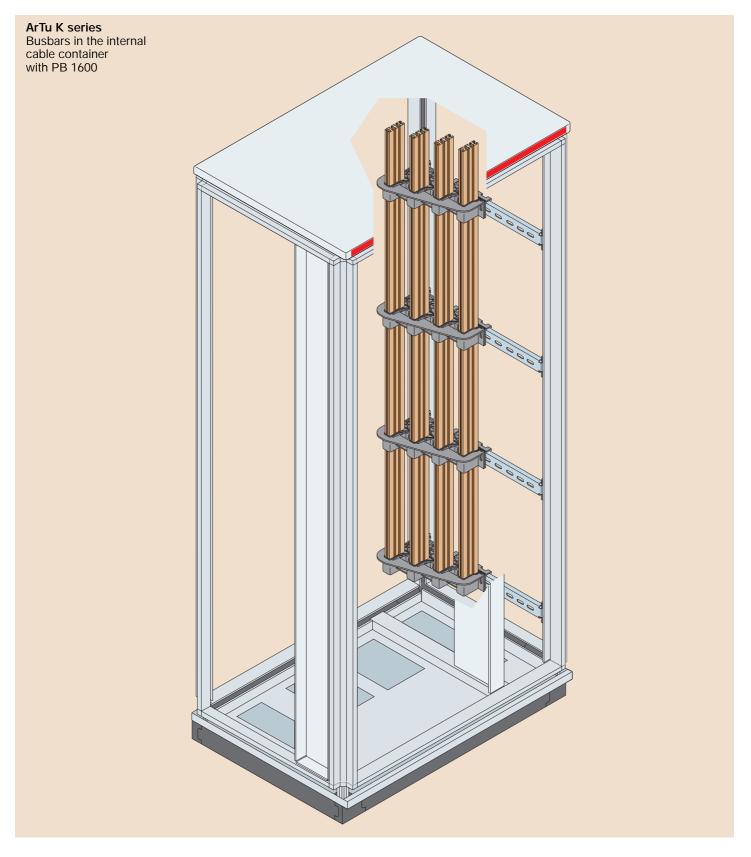
Busbars positioned horizontally at the top in the structure



Example of use of the neutral busbar (1250A) with busbars up to 1600A.

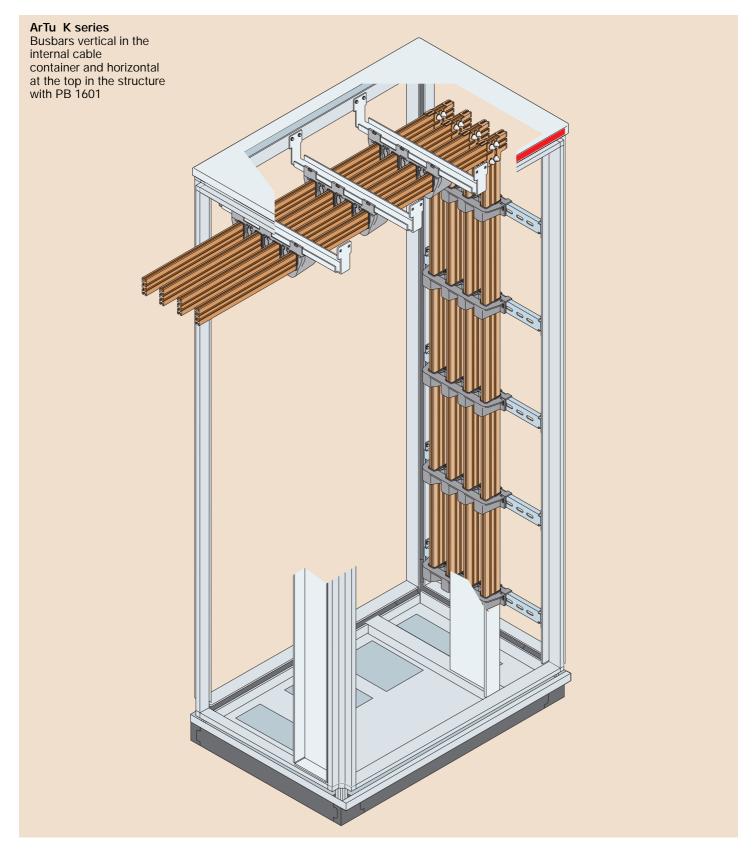


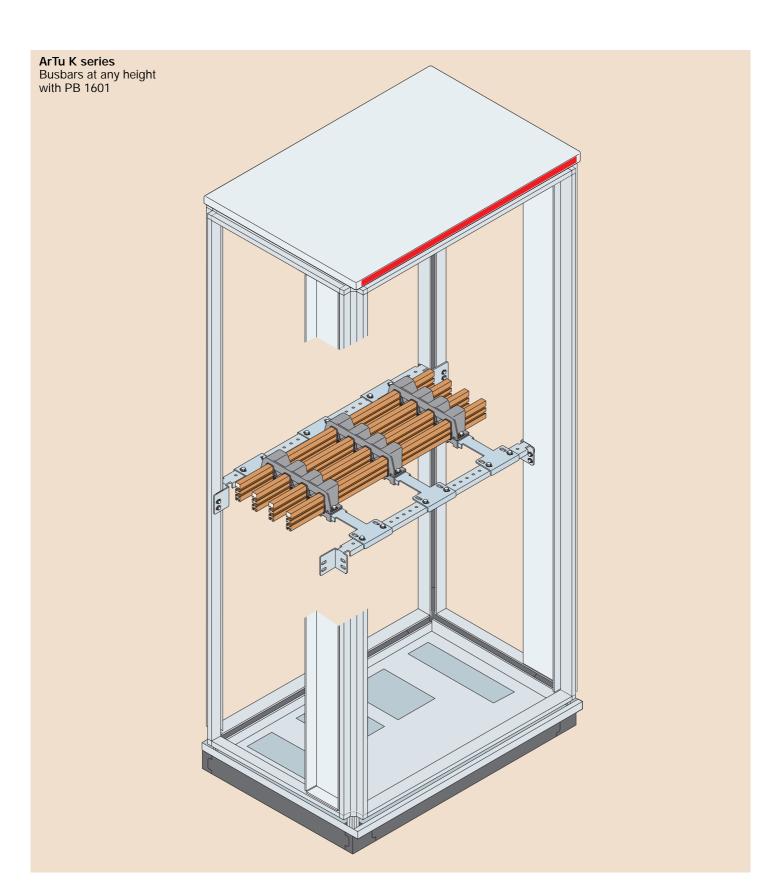
Example of application



ArTu K seriesBusbars on the bottom of the structure with PB 1601

Example of application





Mechanical and electrical characteristics

Compliance with CEI EN 60439-2 Standard

The ArTu switchboards have undergone the type tests foreseen by the CEI EN 60439-2 (CEI 17/13-2 3rd edition) Standards in the ABB laboratories.

The results of these tests guarantee the performances of the ArTu switchboards and allow the end switchboard constructor not to carry out any further type tests by the various components. These of the ArTu switchboard allow the end switchboard conformity of the switchboard.

using the ABB Turati metalwork and accessories, ABB SACE and ABB Elettrocondutture apparatus, following the selection criteria and the assembly instructions for the various components. These results - indicated below - can be referred to for making out the declaration of conformity of the switchboard.

Mechanical characteristics

Material

Busbar	electrolytic copper
Busbar holders	self-extinguishing thermoplastic VO
Tightening screws	Mad. class 8.8

Electrical characteristics

Busbars	IP 30	IP 40	IP 55	
In 800	970	830	800	
In 1250	1400	1330	1250	
In 1600	1820	1710	1600	
Tightening	M8 screws - 20N·m			
	M10 screws - 30N·m			

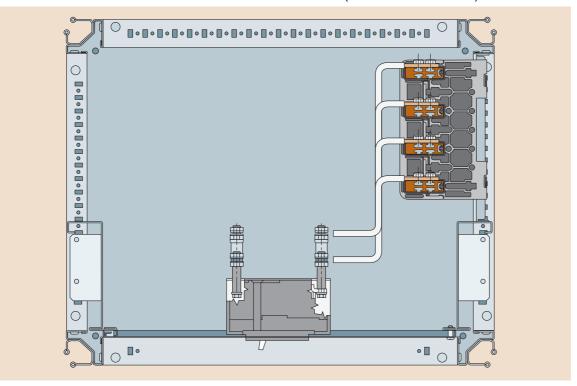
Ambient characteristics

Type of installation	indoors	
Installation conditions	Wall / Floor	
Service climate (t° / Ur%)	constant	23°C/83% - 40°C/93%
	variable	23°C/98% - 40°C/98%
Ambient temperature limits	operating	-5°C +40°C
	storage	-25°C +55°C

Connections with the circuit-breakers

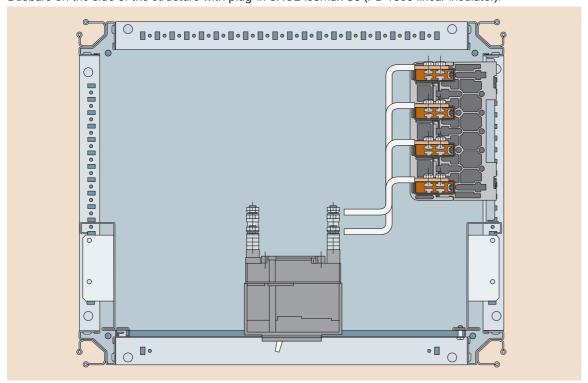
ArTu K series with functional frame D=≥600mm

Busbars on the side of the structure with fixed SACE Isomax S3 (PB 1603 linear insulator).



ArTu K series with functional frame D=≥600mm

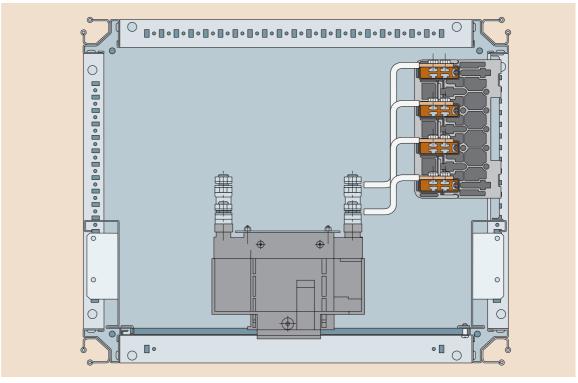
Busbars on the side of the structure with plug-in SACE Isomax S3 (PB 1603 linear insulator).



Connections with the circuit-breakers

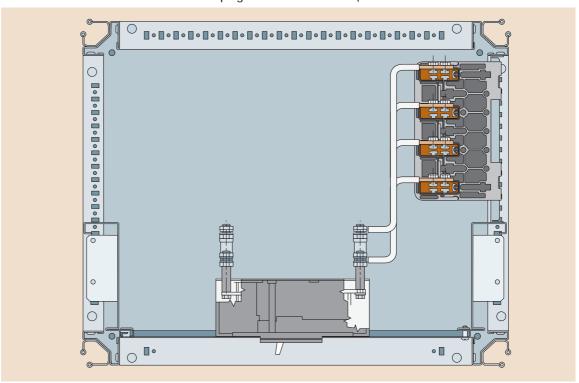
ArTu K series with functional frame D=≥600mm

Busbars on the side of the structure with withdrawable SACE Isomax S3 (PB 1603 linear insulator).



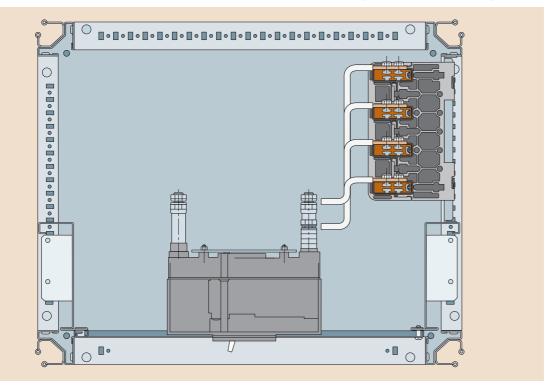
ArTu K series with functional frame D=≥600mm

Busbars on the side of the structure with plug-in SACE Isomax S3 (PB 1603



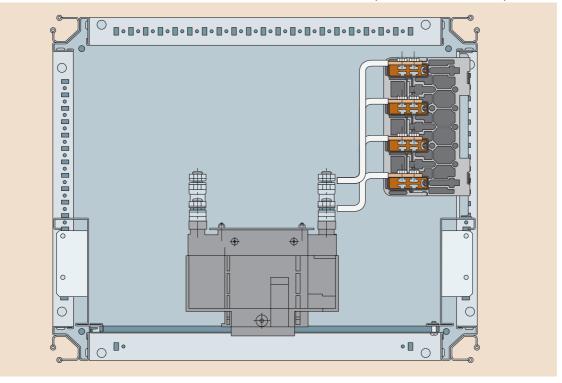
ArTu K series with functional frame D=≥600mm

Busbars on the side of the structure with withdrawable SACE Isomax S5 (PB 1603 linear insulator).



ArTu K series with functional frame D=≥600mm

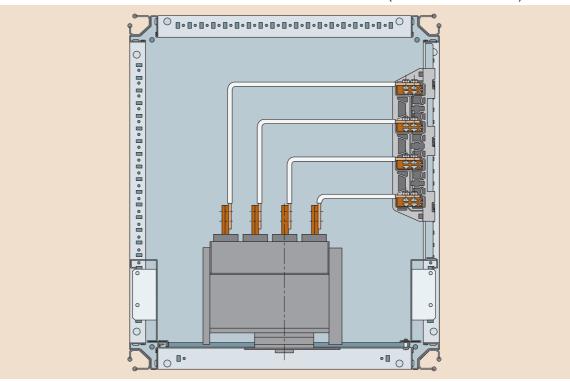
Busbars on the side of the structure with withdrawable SACE Isomax S5 (PB 1603 linear insulator).



Connections with the circuit-breakers

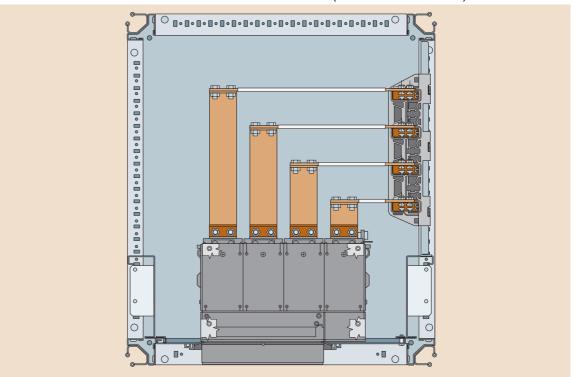
ArTu K series with functional frame D=800mm

Busbars on the side of the structure with withdrawable SACE Isomax S7 (PB 1601 linear insulator).



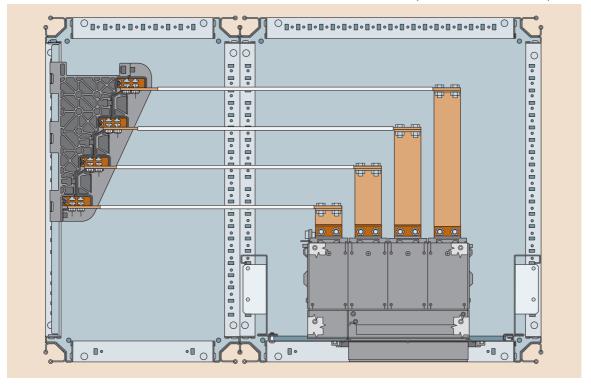
ArTu K series with functional frame D=800mm

Busbars on the side of the structure with fixed SACE Emax E1 (PB 1601 linear insulator).



ArTu K series with functional frame D=≥600mm

Busbars on the side in the external cable container with fixed SACE Emax E1 (PB 1600 scaled insulator).



List of codes

PB 1601

PB 1603

Linear busbar holder In=1600A

Linear busbar holder In=1600A (65kA)

Code	Description	Q.ty Packing
Accessor	ies	
AD 1062	Universal joint for busbar with profile 8 pcs.	1
AD 1063	Joint for busbar with profile and flat busbars 4 pcs.	1
AD 1064	Tightening screws 12 pcs.	1
AD 1066	Adapter for busbar In=800A with busbar holder up to In=1600A 4 pcs.	1
AD 1065	Resting base for 800A busbar 4 pcs.	1
AD 1067	Resting base for 1600A busbar 4 pcs.	1
Busbars		
BA 0800	Busbar In=800A (L=1730mm)	1
BA 1250	Busbar In=1250A (L=1730mm)	1
BA 1600	Busbar In=1600A (L=1730mm)	1
Busbars	holders	
PB 0802	Scaled busbar holder In=800A	1
PB 0803	Scaled busbar holder In=800A	1
PB 1600	Scaled busbar holder In=1600A	1

Crosspied	ces for fixing to the structure	
TR 3001	External cable container crosspiece L=300mm ArTu M 2 pcs.	1
TV 2000	External cable container crosspiece L=200mm ArTu M 2 pcs.	1
TV 2201	External cable container crosspiece L=200mm ArTu K 2 pcs.	1
TV 3101	Internal/external cable container crosspiece D=350mm ArTu K 2 pcs.	1
TV 3201	External cable container crosspiece L=300mm ArTu K 2 pcs.	1
TV 6001	Open frame structure crosspiece D=600mm ArTu K 2 pcs.	1
TV 6005	Segregated frame structure crosspiece D=600mm ArTu K 2 pcs.	1
TV 6011	Structure crosspiece D=600mm ArTu K 2 pcs.	1
TV 6101	Internal/external cable container crosspiece D=600mm ArTu K 2 pcs.	1
TV 6200	Structure crosspiece L=600mm ArTu M 2 pcs.	1
TV 6201	Structure crosspiece L=600mm ArTu K 2 pcs.	1
TV 6203	Structure crosspiece L=600mm for connection with Unifix H system 2 pcs.	1
TV 6211	Structure crosspiece L=600mm ArTu K 2 pcs.	1
TV 6221	Structure crosspiece telaio funzionale L=600mm ArTu K 2 pcs.	1
TV 8001	Structure crosspiece telaio aperto P=800mm ArTu K 2 pcs.	1
TV 8005	Structure crosspiece telaio segregato P=800mm ArTu K 2 pcs.	1
TV 8011	Structure crosspiece D=800mm ArTu K 2 pcs.	1
TV 8101	Internal/external cable container crosspiece=800mm ArTu K 2 pcs.	1
TV 8200	Structure crosspiece L=800mm ArTu M 2 pcs.	1
TV 8201	Structure crosspiece L=800mm ArTu K 2 pcs.	1
TV 8203	Structure crosspiece L=800mm for connection with Unifix H system 2 pcs.	1
TV 8211	Structure crosspiece L=800mm ArTu K 2 pcs.	1
TV 8221	Functional frame structure crosspiece L=800mm ArTu K 2 pcs.	1

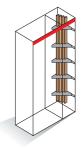
Examples of busbar kit composition

Installation in floor-mounted ArTu M series

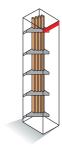
Busbars vertical in the internal cable container of the structure

Icw 35 kA max

Code	Description	Qty.	
BA 0800	Busbar In=800A	4	
PB 0802	Scaled busbar holder In=800A	5	
TV 2000	Internal cable container crosspiece L=200mm ArTu M (2 pcs.)	3	



Busbar vertical in the additional cable container | cw max 35 kA | | Codice | Descrizione | Q.tà | | BA 0800 | Busbar In=800A | 4 | | PB 0802 | Scaled busbar holder In=800A | 5 |

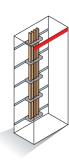


Busbars vertical on the rear of the structure (L=600mm)

TR 3001 Internal cable container crosspiece L=300mm ArTu M (2pz.)

Icw max 35 kA

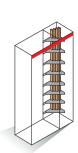
Code	Description	Q.tà
BA 0800	Busbar In=800A	4
PB 0803	Scaled busbar holder In=800A	5
TV 6200	External cable container crosspiece L=600mm ArTu M (2pz.)	3



Installation in ArTu K series

Busbars vertical on the side in the internal or additional cable container of the structure (D=800mm) lcw max 75 kA

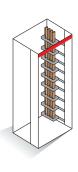
		1250A busbsrs		1600A busbars	
		L1, L2, L3	Neut. busbar	L1, L2, L3	Neut. busbar
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbar In=800A		1		
BA 1250	Busbar In=1250A	3			1
BA 1600	Busbar In=1600A			3	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs.)		2		_
PB 1600	Scaled busbar holder up to In=1600A		8		8
TV 8101	Inter./extern. cable cont. crosspiece D=800mm ArTu K (2 pcs.)		4		4



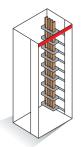
Busbars vertical on the side of the structure with functional frame (D=800mm)

Icw max 65 kA

1250A busbsrs		busbars
Neut. busbar	L1, L2, L3	Neut. busbar
Qty.	Qty.	Qty.
1		
		1
_	3	
		9
		5
	Neut. busbar	Neut. busbar L1, L2, L3



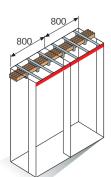
Examples of busbar kit composition



Busbars vertical on the bottom of the structure (L=600mm)

Icw 75 kA max.

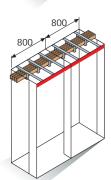
		1250A busbars		1600A busbars	
		L1, L2, L3	Neut. busbar	L1, L2, L3	Neut. busbar
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbar In=800A		1		
BA 1250	Busbar In=1250A	3			1
BA 1600	Busbar In=1600A			3	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		3		
PB 1601	Linear busbar holder up to In=1600A	9		9	
TV 6201	Structure crosspiece L=600mm ArTu K (2 pcs)		5		5



Busbars horizontal at the top in the structure (D=800mm)

Icw 65 kA max.

		1250A busbars		1600A busbars	
		L1, L2, L3	Neut. busbar	L1, L2, L3	Neut. busbar
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbar In=800A		1		
BA 1250	Busbar In=1250A	3			1
BA 1600	Busbar In=1600A			3	_
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		2		
PB 1603	Linear busbar holder up to In=1600A		6		6
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)		3	3	



Busbars horizontal at the top in the structure (D=800mm)

Icw 65 kA max.

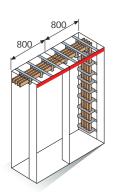
		1250A busbars		1600A busbars	
		L1, L2, L3	Neut. busbar	L1, L2, L3	Neut. busbar
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbar In=800A		1		
BA 1250	Busbar In=1250A	3			1
BA 1600	Busbar In=1600A			3	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		2		_
PB 1601	Linear busbar holder up to In=1600A		6		6
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)		3		3

Horiz. busbars 1600A

Horiz. busbars 1600A

Busbars horizontal at the top in the structure (D=800mm)

Icw 65 kA max.

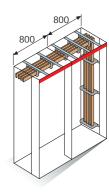


		Vertic. busbars 1250A		Vertic. busbars 1600A		
		L1, L2, L3	Neut. busbar	L1, L2, L3	Neut. busbar	
Code	Description	Qty.	Qty.	Qty.	Qty.	
BA 0800	Busbar In=800A		1			
BA 1250	Busbar In=1250A	3	1		2	
BA 1600	Busbar In=1600A	3		6		
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		3			
PB 1603	Linear busbar holder up to In=1600A	15		15		
TV 8001	Open frame structure crosspiece D=800mm ArTu K (2 pcs)					
TV 8005	Segregated frame structure crosspiece D=800mm ArTu K (2	cs)	5		5	
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)	3		3		
AD 1062	Universal joint for busbars (8 pcs)	1		1		1
AD 1064	Tightening screw (12 pcs)	4		4		

Busbars vertical and horizontal in the structure (D=800mm)

Icw 35 kA

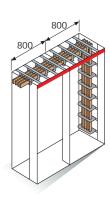
		Horiz. busbars 1250A Vertic. busbars 800A		Horiz. busbars 1600A Vertic. busbars 1600A	
		L1, L2, L3	Neut. busbars	L1, L2, L3	Neut. busbars
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbars In=800A	4	1		
BA 1250	Busbars In=1250A	3			2
BA 1600	Busbars In=1600A			6	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		5		
PB 1603	Linear busbar holder up to In=1600A		8		8
TV 8001	Open frame structure crosspiece D=800mm ArTu K (2 pcs)				
TV 8005	Segregated frame structure crosspiece D=800mm ArTu K (2 pc		2		2
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)		3		3
AD 1062	Universal joint for busbars with profile (8 pcs)		1		1
AD 1064	Tightening screw (12 pcs)		4		4



Busbars vertical and horizontal in the structure (D=800mm)

Icw 35 kA

		Horiz. busbars 1250A Vertic. busbars 800A		Horiz. busbars 1600A Vertic. busbars 1600A	
		L1, L2, L3	Neut. busbars	L1, L2, L3	Neut. busbars
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbars In=800A	4	1		
BA 1250	Busbars In=1250A	3			2
BA 1600	Busbars In=1600A			6	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		5		
PB 1601	Linear busbar holder up to In=1600A		8		8
TV 8001	Open frame structure crosspiece D=800mm ArTu K (2 pcs)				
TV 8005	Segregated frame structure crosspiece D=800mm ArTu K (2 pc		2		2
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)		3		3
AD 1062	Universal joint for busbars with profile (8 pcs)	1		1 1	
AD 1064	Tightening screw (12 pcs)		4	4	
	<u> </u>				



Busbars vertical and horizontal in the structure $\,$ with internal or additional cable container (D=800mm) $\,$

lcw 75 kA max.

		Vertic. busbars 1250A		Vertic. busbars 1600.	
		L1, L2, L3	Neut. busbars	L1, L2, L3	Neut. busbars
Code	Description	Qty.	Qty.	Qty.	Qty.
BA 0800	Busbars In=800A		2		
BA 1250	Busbars In=1250A	6			2
BA 1600	Busbars In=1600A			6	
AD 1066	Adapter for 800A busbar with busbar holder up to 1600A (4 pcs)		4		_
PB 1601	Linear busbar holder up to In=1600A		12		18
TV 8101	Structure crosspiece D=800mm ArTu K (2 pcs)	4		5	
TV 8211	Structure crosspiece D=800mm ArTu K (2 pcs)	4		5	
AD 1062	Universal joint for busbars with profile (8 pcs)	1		1	
AD 1064	Tightening screw (12 pcs)	4		4	

Horiz. busbars 1250A

Horiz. busbars 1600A

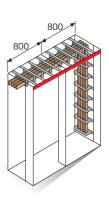




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Certificato Nº 1612/98