

1STC802005D0201



Industrial^{IT}
enabled™

ABB

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ArTu PB Panelboard

Three-step selection process

STEP 1

Select the fixed Panelboard required from page 5
or
Select the Custom Panelboard required from page 7
or
Select the Custom Pan Assembly required from page 9

STEP 2

Select the incoming device and the inner door required from page 10

STEP 3

Select the outgoing device required from page 11

Remember

- a) 18 way 4 pole T3 Fixed/Custom Panelboard & Pan Assembly equals 16 outgoing ways
- b) When ordering the incoming breaker do not forget to order the connection kit
- c) For T3 outgoing devices front connection terminal sets are required
- d) For breaker terminal shrouds see breaker accessories
- e) As standard no panelboard is fitted with a plinth (see panelboard accessories)
- f) For T2 outgoing breakers see Tmax technical catalogue (1SDC210004D0201)
- g) For the custom panelboard fill the usable space with plug-in module bases. Any left over busbar / equivalent space on the inner door should be shrouded (see custom panelboard accessories)



ArTu PB Panelboard

General information

The ArTu distribution switchboards are enriched by the new ArTu PB Panelboard series, for applications up to 800 A incomer with outgoing ways up to 250 A, which complete now the ABB offer. The ArTu PB panelboard is extremely sturdy, thanks to the new

new plug in system designed by ABB.

An extension box is available with a width of 390mm which can be fitted on both sides of the structure.

There is also an option of adding a top and bottom extension box;



design in metalwork system.

The ArTu PB panelboard is available as wall mounted as standard, and in three configurations of 6, 12 and 18 outgoing ways, with the option of building your own custom panelboard.

The new system allows you to fit T1 and T3 three or four pole and the single pole MCCB off the same copper system using the all

metering extension boxes are also available.

Trunking has been fitted vertically behind each row of MCCBs to allow cabling from SR's, UV's and AUX contacts to be channelled away. As standard the panelboard is fitted with a plain door but, as an option, it can be fitted with a glazed one.



Technical characteristics

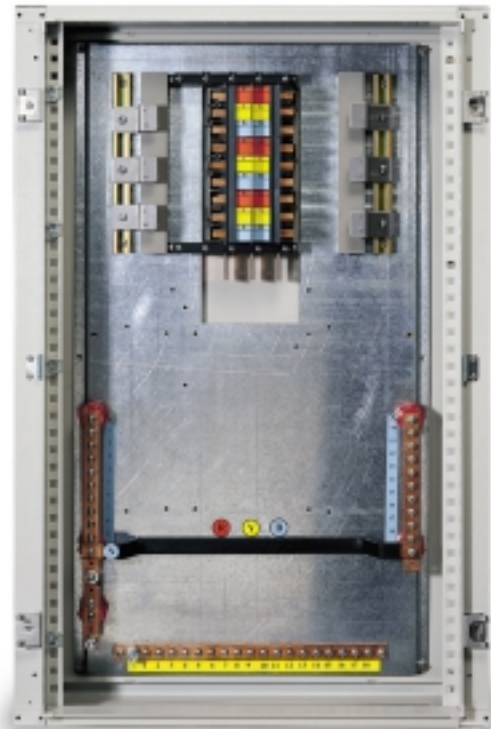
Compliance with Standards	CEI EN 60439-1
Rated service voltage - Ue	up to 690 V
Rated insulation voltage - Ui	up to 1000 V
Rated frequency	50-60 Hz
Rated impulse withstand voltage - Uimp	8 kV
Rated current - In	up to 800 A
Rated short-circuit short-time	
Withstand current - Icw	up to 50 kA
Rated short-circuit peak current - Ipk	up to 110 kA
IP degree of protection	43 with door

ArTu PB Panelboard

Selection

STEP 1

Select the fixed capacity Panelboard required from the table below.



Panelboard fixed capacity

Ways	Copper Rating	MCCB Type	Order code	
			3 Pole	4 Pole
6	400A	T1 outgoing 160A	640T1PB3	640T1PB4
6	400A	T3 outgoing 250A	640T3PB3	640T3PB4
6	800A	T3 outgoing 250A	680T3PB3	680T3PB4
12	400A	T1 outgoing 160A	124T1PB3	124T1PB4
12	400A	T3 outgoing 250A	124T3PB3	124T3PB4
12	800A	T1 outgoing 160A	128T1PB3	128T1PB4
12	800A	T3 outgoing 250A	128T3PB3	128T3PB4
18	400A	T1 outgoing 160A	184T1PB3	184T1PB4
18	800A	T1 outgoing 160A	188T1PB3	188T1PB4
18*	800A	T3 outgoing 250A	188T3PB3	188T3PB4

* T3 4 pole Panelboard equals only 16 outgoing ways.

ArTu PB Custom Panelboard

General information

The new ArTu PB panelboard gives you the flexibility to design your own custom panelboard.

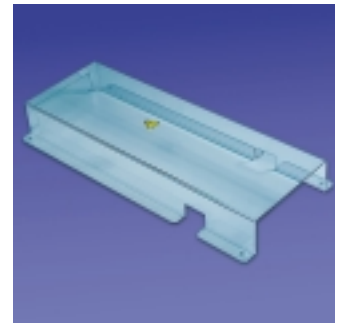
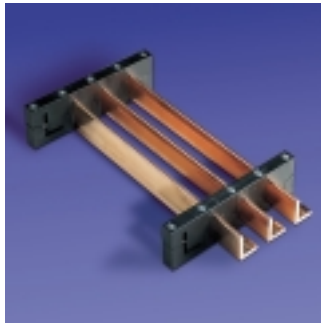
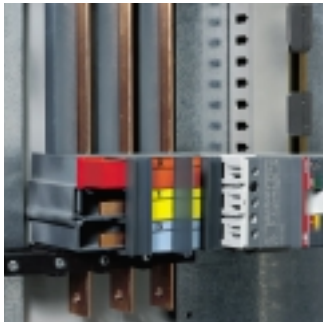
There are three sizes for the fixed panelboard, 6, 12 and 18 outgoing ways, and each one can be equipped with an incoming breaker from 250 A to 800 A, three or four pole.

Each panelboard has a fixed dimension of copper depending on

the quantity of outgoing ways you require.

All you have to do is select the plug-in bases and fill up the copper bar to suit the breakers you need.

Any left over copper can be shrouded and MCB blanking plates can be used to fill out the inner door.



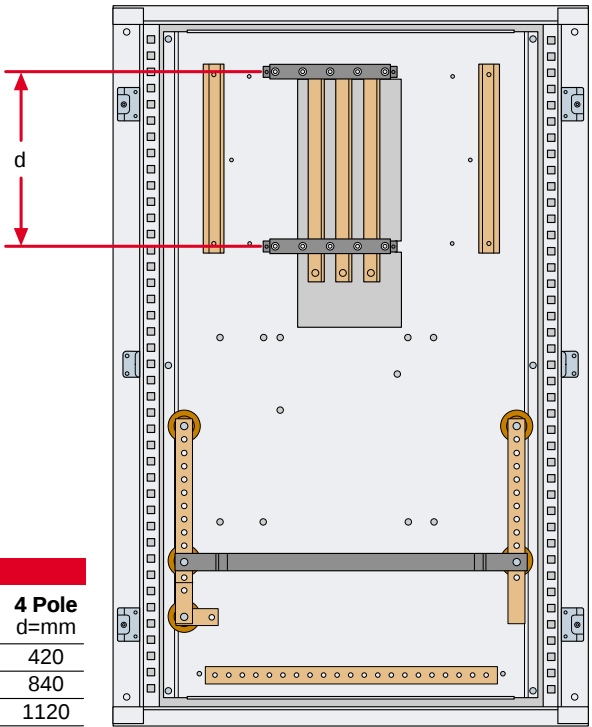
ArTu PB Custom Panelboard

Selection

STEP 1

Select the Custom Panelboard required from the table below.

Usable copper				
		3 Pole	4 Pole	
		d=mm	d=mm	
6	way panelboard =	315	420	
12	way panelboard =	630	840	
18	way panelboard =	945	1120	



Custom Panelboard

Ways	Copper Rating	MCCB Type	3 Pole	Order code	4 Pole
6	800A	T1/T3 outgoing ways	CU680PB3		CU680PB4
12	800A	T1/T3 outgoing ways	CU128PB3		CU128PB4
18*	800A	T1/T3 outgoing ways	CU188PB3		CU188PB4

* T3 4 pole breakers equals only 16 outgoing ways.

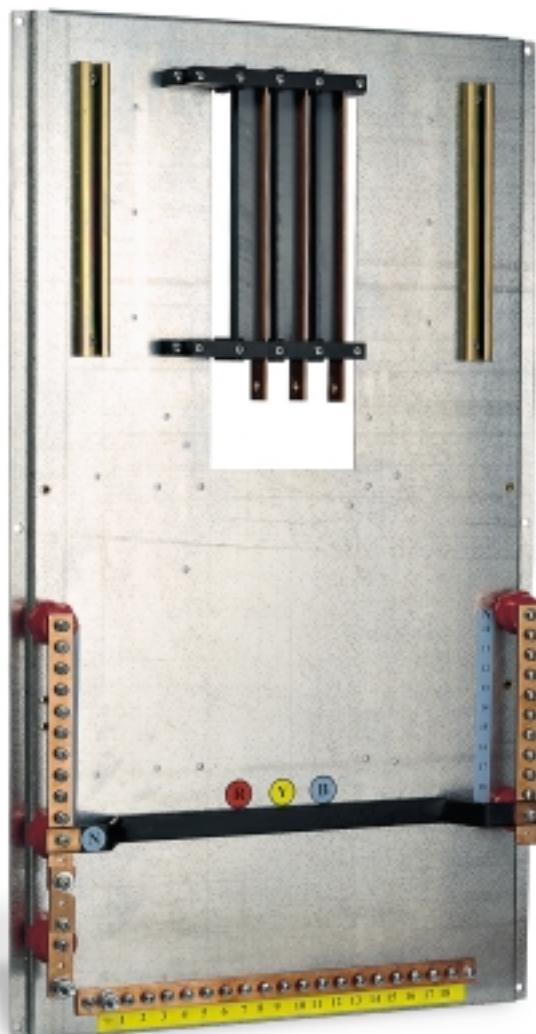
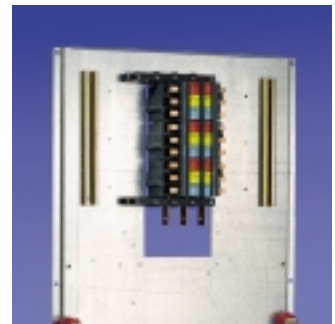
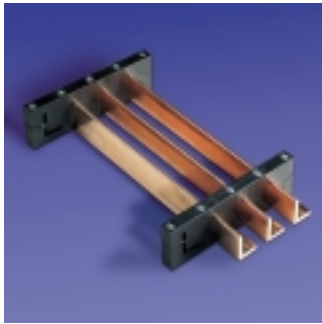
ArTu PB Custom Pan Assembly

General information

Also the pan assembly version allows you to design your own customized switchboard. As for the panelboard, it is available in three sizes with 6, 12 and 18 outgoing ways, each of which can be equipped with an incoming breaker from 250 A to 800 A, three or four pole.

As standard the pan assembly is supplied as a three or four pole.

Each pan assembly has a fixed dimension of copper depending on the quantity of outgoing ways you require. All you have to do is select the plug-in bases and fill up the copper bar to suit the breakers you need. Any left over copper can be shrouded and MCB blanking plates can be used to fill out the inner door.

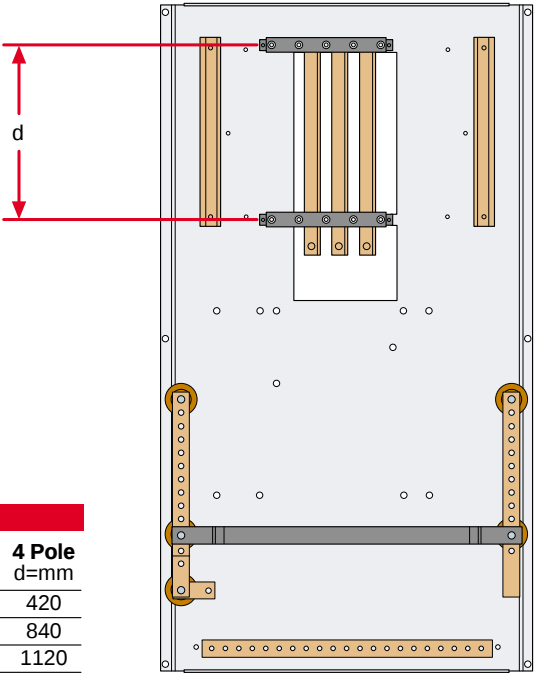


ArTu PB Custom Pan Assembly

Selection

STEP 1

Select the Custom Pan Assembly required from the table below.



Usable copper

		3 Pole d=mm	4 Pole d=mm
6	way panelboard =	315	420
12	way panelboard =	630	840
18	way panelboard =	945	1120

Custom Pan Assembly

Ways	Copper Rating	MCCB Type	3 Pole	Order code	4 Pole
6	800A	T1/T3 outgoing ways	CU680PA3		CU680PA4
12	800A	T1/T3 outgoing ways	CU128PA3		CU128PA4
18*	800A	T1/T3 outgoing ways	CU188PA3		CU188PA4

* T3 4 pole breakers equals only 16 outgoing ways.

ArTu PB Panelboard

Incoming selection kit

STEP 2

Select the incoming connection kit required from the table below.



Direct connection kit

Type	3 Pole	Order code 4 Pole	Inner door
400A Busbar rating	400DC3/4P	400DC3/4P	P6X6DC
800A Busbar rating	800DC3P	800DC4P	P6X6DC

Incomer options

(Connection kits must be ordered with each incoming breaker)

Type	3 Pole	Order code 4 Pole	Inner door
250A MCCB connection Kit T3	250T33P	250T34P	P6X6T3
250A Switch disconnecter T3D250	1SDA051327R1	1SDA051328R1	
250A MCCB T3N250	1SDA051247R1	1SDA051306R1	
400A MCCB connection Kit S5	400S53P	400S54P	P6X6S5
400A Switch disconnecter S5N400	1SDA017715R1	1SDA017847R1	
400A MCCB S5N400	1SDA017717R1	1SDA017849R1	
630A MCCB connection kit S5	630S53P	630S54P	P6X6S5
630A Switch disconnecter S5N630	1SDA038674R1	1SDA038679R1	
630A MCCB S5N630	1SDA038675R1	1SDA038680R1	
630A MCCB S5H630	1SDA038705R1	1SDA038710R1	
800A MCCB connection kit S6	800S63P	800S64P	P6X6S6
800A Switch disconnecter S6D800	1SDA020724R1	1SDA020749R1	
800A MCCB S6N800	1SDA018951R1	1SDA019005R1	
800A MCCB S6S800	1SDA019059R1	1SDA019113R1	

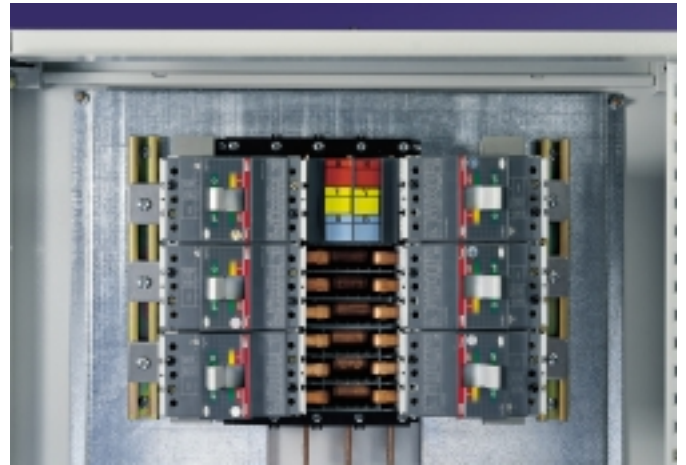
For terminal shrouds see accessories.

ArTu PB Panelboard

MCCB Outgoing breaker selection

STEP 3

Select the outgoing devices required from the table below.



T1B Single pole MCCB

(Thermomagnetic release)

Current rating	kA rating	Order code 1 Pole
16	25	1SDA052616R1
20	25	1SDA052617R1
25	25	1SDA052618R1
32	25	1SDA052619R1
40	25	1SDA052620R1
50	25	1SDA052621R1
63	25	1SDA052622R1
80	25	1SDA052623R1
100	25	1SDA052624R1
125	25	1SDA052625R1
160	25	1SDA052626R1

T1B Three pole MCCB

(Thermomagnetic release)

Current rating	kA rating	Order code 3 Pole	Order code 4 Pole
16	16	1SDA050870R1	1SDA050881R1
20	16	1SDA050871R1	1SDA050882R1
25	16	1SDA050872R1	1SDA050883R1
32	16	1SDA050873R1	1SDA050884R1
40	16	1SDA050874R1	1SDA050885R1
50	16	1SDA050875R1	1SDA050886R1
63	16	1SDA050876R1	1SDA050887R1
80	16	1SDA050877R1	1SDA050888R1
100	16	1SDA050878R1	1SDA050889R1
125	16	1SDA050879R1	1SDA050890R1
160	16	1SDA050880R1	1SDA050936R1

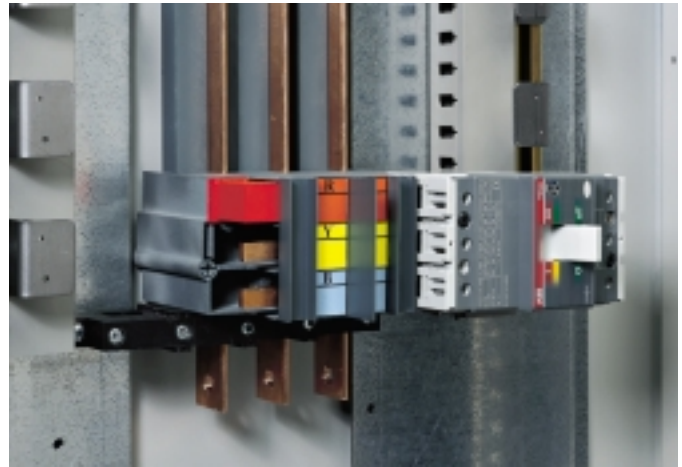
T1C Three pole MCCB

(Thermomagnetic release)

Current rating	kA rating	Order code 3 Pole	Order code 4 Pole
25	25	1SDA050894R1	1SDA050905R1
32	25	1SDA050895R1	1SDA050906R1
40	25	1SDA050896R1	1SDA050907R1
50	25	1SDA050897R1	1SDA050908R1
63	25	1SDA050898R1	1SDA050909R1
80	25	1SDA050899R1	1SDA050910R1
100	25	1SDA050900R1	1SDA050911R1
125	25	1SDA050901R1	1SDA050912R1
160	25	1SDA050902R1	1SDA050937R1

ArTu PB Panelboard

MCCB Outgoing breaker selection



T1N Three pole MCCB

(Thermomagnetic release)

Current rating	kA rating	Order code	
		3 Pole	4 Pole
32	36	1SDA050917R1	1SDA050928R1
40	36	1SDA050918R1	1SDA050929R1
50	36	1SDA050919R1	1SDA050930R1
63	36	1SDA050920R1	1SDA050931R1
80	36	1SDA050921R1	1SDA050932R1
100	36	1SDA050922R1	1SDA050933R1
125	36	1SDA050923R1	1SDA050934R1
160	36	1SDA050924R1	1SDA050938R1

T3N Three pole MCCB

(Thermomagnetic release)

Current rating	kA rating	Order code	
		3 Pole	4 Pole
63	36	1SDA051241R1	1SDA051252R1
80	36	1SDA051242R1	1SDA051253R1
100	36	1SDA051243R1	1SDA051254R1
125	36	1SDA051244R1	1SDA051303R1
160	36	1SDA051245R1	1SDA051304R1
200	36	1SDA051246R1	1SDA051305R1
250	36	1SDA051247R1	1SDA051306R1

Front connection terminal sets are required for all T3 outgoing devices.

T3S Three pole MCCB

(Thermomagnetic Release)

Current rating	kA rating	Order code	
		3 Pole	4 Pole
63	50	1SDA051263R1	1SDA051274R1
80	50	1SDA051264R1	1SDA051275R1
100	50	1SDA051265R1	1SDA051276R1
125	50	1SDA051266R1	1SDA051307R1
160	50	1SDA051267R1	1SDA051308R1
200	50	1SDA051268R1	1SDA051309R1
250	50	1SDA051269R1	1SDA051310R1

Front connection terminal sets are required for all T3 outgoing devices.

ArTu PB Panelboard

Accessories

MCCB



Shunt opening release - SOR

(cabled version)

Voltage	Order code
SOR 24V AC/DC	1SDA051339R1
SOR 48...60V AC/DC	1SDA051340R1
SOR 110...120V AC - 110...125V DC	1SDA051341R1
SOR 220...240V AC - 220...250V DC	1SDA051342R1
SOR 380...440V AC	1SDA051343R1

Undervoltage release - UVR

(cabled version)

Voltage	Order code
UVR 24...30V AC/DC	1SDA051351R1
UVR 48V AC/DC	1SDA051352R1
UVR 60V AC/DC	1SDA052335R1
UVR 110...127V AC - 110...125V DC	1SDA051353R1
UVR 220...240V AC - 220V DC	1SDA051354R1
UVR 380...440V AC	1SDA051355R1

Auxiliary contacts - AUX

(cabled version)

Type	Order code
1 open/closed change-over and 1 release tripped change-over	1SDA051370R1
3 open/closed change-over and 1 release tripped change-over	1SDA051371R1

High terminal cover HTC

Type	Order code	
	3 Pole	4 Pole
HTC T1	1SDA051415R1	1SDA051416R1
HTC T3	1SDA051419R1	1SDA051420R1
HTC S5	1SDA013897R1	1SDA013898R1
HTC S6	1SDA014040R1	1SDA014041R1

Front terminal for copper cables - FC CU

Type	Order code
FC CU T3 - 3 pieces	1SDA051482R1
FC CU T3 - 6 pieces	1SDA051480R1
FC CU T3 - 4 pieces	1SDA051483R1
FC CU T3 - 8 pieces	1SDA051481R1

ArTu PB Panelboard

Accessories

Custom Panelboard



Glazed door for panelboard

Type	Order Code
640T1PB3	PV1000
640T3PB3 - 640T1PB4	PV1200
663T3PB3 - 640T3PB4 - 663T3PB4 - 124T1PB3 - 126T1PB3	PV1400
124T1PB4 - 124T3PB3 - 126T3PB3 - 126T1PB4	PV1600
124T3PB4 - 126T3PB4 - 184T1PB3 - 186T1PB3	PV1800
184T1PB4 - 186T1PB4 - 186T3PB3 - 186T3PB4	PV2000

Plinth

Type	Order Code
Four corner feet 100mm high for main structure	ZL1000
Finishing profile for above plinth	ZL1001
Two feet 100mm high for side extension box	ZL3000
Finishing profile for side extension box	ZL2001

Top/Bottom extension modules

Type	Order Code
200mm High	200EXMOD
385x690mm HighxWide*	RC1000
385x390mm HighxWide*	RC2000

*Extension modules for ≥ 1450 mm High only.

Side extension modules for panelboard

Type	Intermediate uprights	Order Code Cable container	Front door
640T1PB3	MI1000	VC1000	PC1002
640T3PB3 - 640T1PB4	MI1200	VC1200	PC1202
663T3PB3 - 640T3PB4 - 663T3PB4 - 124T1PB3 - 126T1PB3	MI1400	VC1400	PC1402
124T1PB4 - 124T3PB3 - 126T3PB3 - 126T1PB4	MI1600	VC1600	PC1602
124T3PB4 - 126T3PB4 - 184T1PB3 - 186T1PB3	MI1800	VC1800	PC1802
184T1PB4 - 186T1PB4 - 186T3PB3 - 186T3PB4	MI2000	VC2000	PC2002

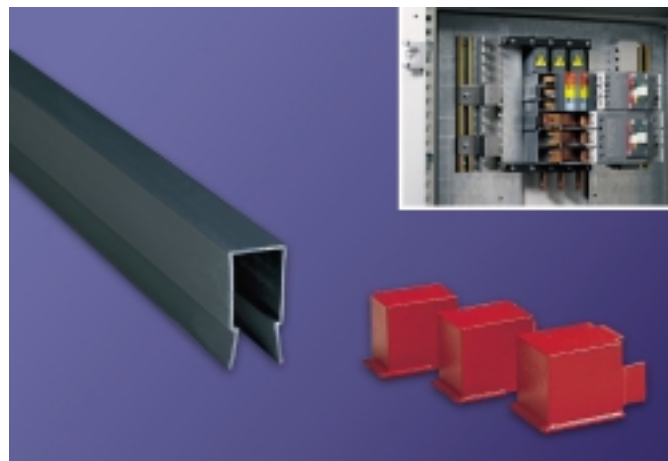
Metering extension modules

Type	Order Code
250A Metering module	250METMOD
400A Metering module	400METMOD
630A Metering module	630METMOD
800A Metering module	800METMOD

ArTu PB Panelboard

Accessories

Custom Panelboard and Pan Assembly



Plug In device

Type	Width	Order code
T1 single pole L1 & L3	25.4mm	PLT11L1/L3P
T1 single pole L2	25.4mm	PLT11L2P
T1 three pole	76.2mm	PLT13P
T1 four pole	101.2mm	PLT14P
T2 three pole	50mm	PLT23P
T2 four pole	120mm	PLT24P
T3 three pole	105mm	PLT33P
T3 four pole	140mm	PLT34P
Dummy base for RCD	30mm	PLRCD

Accessories

Type	Order code
Busbar shroud 630mm long	SH630
MCCB blanking module for inner door (210mm)	SZ-BP1
Busbar module shroud for T1 10 pcs	MODT1
Busbar module shroud for T2 10 pcs	MODT2
Busbar module shroud for T3 10 pcs	MODT3
Spares kit	SPARE1

ArTu PB

In-depth technical information

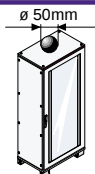
1st NUMBER: protection against solid bodies

IP

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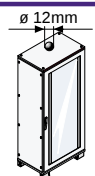
No protection

1



Protected against solid bodies larger than 50mm (accidental contact with hands)

2



Protected against solid bodies larger than 12mm (fingers)

3



Protected against solid bodies larger than 2.5mm (tools, wires)

4



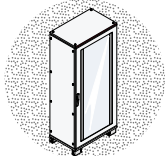
Protected against solid bodies larger than 1 mm

5



Protected against dust (no harmful deposit)

6



Totally protected against dust

1st number defined by the CEI 70-1 – IEC 529 Standards

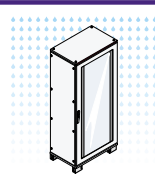
2nd NUMBER: protection against liquids

IP

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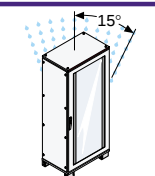
No protection

1



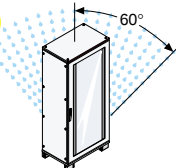
Protected against vertical fall of drops of water (condensation)

2



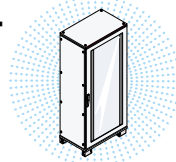
Protected against drops of water up to 15° from vertical

3



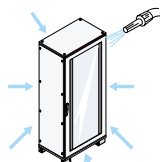
Protected against drops of water up to 60° from vertical

4



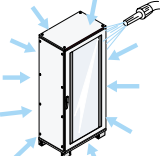
Protected against splashes of water from all directions

5



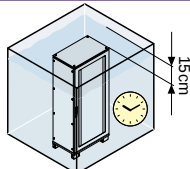
Protected against jets of water from all directions by means of a hose

6



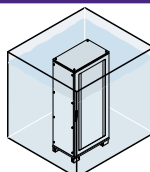
Protection against jets of water similar to sea waves

7



Protected against the effects of temporary immersion

8



Protected against the effects of continual immersion

2nd number defined by the CEI 70-1 – IEC 529 Standards

1STC802095F0001

ArTu PB

In-depth technical information

IK mechanical resistance

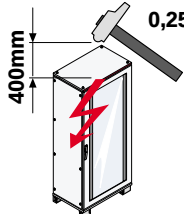
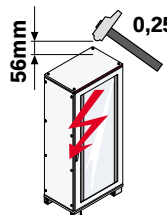
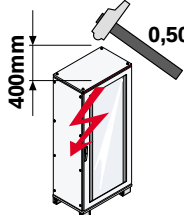
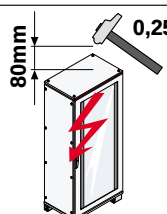
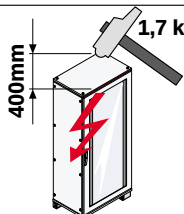
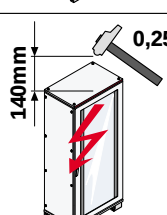
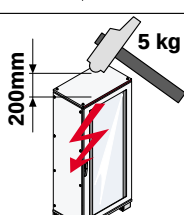
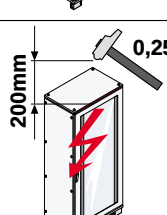
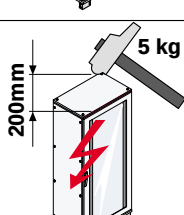
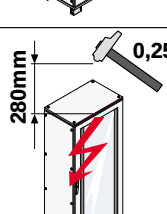
IK 0		Unprotected		IK 06		Impact energy in Joules: 1,00
IK 01		Impact energy in Joules: 0,150		IK 07		Impact energy in Joules: 2,00
IK 02		Impact energy in Joules: 0,200		IK 08		ArTu PB Impact energy in Joules: 5,00
IK 03		Impact energy in Joules: 0,350		IK 09		Impact energy in Joules: 10,00
IK 04		Impact energy in Joules: 0,500		IK 10		Impact energy in Joules: 20,00
IK 05		Impact energy in Joules: 0,700				

Figure defined by the CEI EN 50102 Standard

ArTu PB Panelboard

In-depth technical information

Compliance with CEI EN 60439-1 Standard

The ArTu PB Panelboard have undergone the type tests foreseen by the CEI EN 60439-1 Standards. The results of these tests guarantee the performances of the ArTu switchboards and, by using the metalwork structures, ABB SACE air, modular and moulded-case circuit-breakers, mean that the end switchboard constructor does not have to carry out any further type tests by following the selection criteria and the assembly instructions for the various components. These results, which are indicated below, can be referred to for making out the declaration of conformity of the switchboard.

Over-temperature (Ref. par. 8.2.1 of the Standard)

The table on page 7/5 and following pages shows the thermal dissipation values referred to all the dimensions of ArTu switchboards and to the type of installation, deriving from the type tests carried out. The dissipated power data (in Watt) is according to the admissible over-temperature inside the switchboard (appropriately taking into account the simultaneity factor).

Dielectric properties (Ref. par. 8.2.2 of the Standard)

	ArTu PB
Rated service voltage:	up to 690V AC
Rated insulation voltage:	up to 1000V AC
Rated impulse withstand voltage:	8kV

Short-circuit withstand current (Ref. par. 8.2.3 of the Standard)

		ArTu PB up to 400A	ArTu PB up to 800A
Short-circuit withstand current:	phase-phase	35kA (1s)	50kA (1s)
	phase-neutral	21kA (1s)	30kA (1s)
Rated max. peak short-circuit current:		52,5kA	73,5kA

Short-circuit efficiency (Ref. par. 8.2.4 of the Standard)

		ArTu PB up to 400A	ArTu PB up to 800A
(Ref. par. 8.2.4.1)	Following the assembly indications of the metal components, the effective electrical continuity between the exposed conductive parts is verified, with negligible resistance values.		
(Ref. par. 8.2.4.2)	Protection circuit short-circuit withstand current: phase-earthing busbar		
		21kA (1s)	30kA (1s)

Insulation distances (Ref. par. 8.2.5. of the Standard)

The insulation distances are guaranteed by following the ABB SACE metalwork structure and circuit-breaker assembly and mounting instructions.

Mechanical operation (Ref. par. 8.2.6 of the Standard)

Mechanical operation is verified by following the assembly and mounting instructions of the ABB SACE metalwork structures and circuit-breakers.

Degree of protection (Ref. par. 8.2.7 of the Standard) According to CEI EN 60529 (CEI 70-1 publication IEC 529)

	ArTu PB
With door	IP 43

ArTu PB Panelboard

In-depth technical information

Mechanical characteristics

Material

ArTu PB structure	12/10mm thick pickled steel sheet
Panels	12/15/10mm thick steel sheet
Doors	15/10mm hot galvanised steel sheet. 4mm thick glass tempered from inside

Painting

Structure	Colour Grey orange-peel RAL 7035																				
Base strip colour	Grey RAL 7012																				
Standard cycle	Sheet washing Phosphating with iron salt base Drying in tunnel at 100°C External and internal painting with electrostatic application of thermosetting powder enamel with epoxy polyester binders. Grey orange-peel RAL 7035 colour, total thickness: 60/70 micron. Polymerisation in oven at 180°C.																				
Paint characteristics	<table> <tr> <td>Binder:</td><td>epoxy polyester</td></tr> <tr> <td>Specific gravity:</td><td>1.61 g/cm³</td></tr> <tr> <td>Theoretical coverage:</td><td>10.4 m²/kg with average film thickness 60 micron</td></tr> <tr> <td>Melting point:</td><td>85-95°C (Kofler bench method)</td></tr> <tr> <td>Granulometry:</td><td>standard distribution between 5 and 100 micron with average size of the particles between 30 and 40 micron. Hardening: 12 min. at 190°C (temperature of object)</td></tr> <tr> <td>Hardness:</td><td>1H - 2H</td></tr> <tr> <td>DIN 53152 bending elasticity:</td><td>unaltered on 1/4" spindle</td></tr> <tr> <td>DIN 53151 reticular adherence:</td><td>GT O (100%)</td></tr> <tr> <td>Erichem elasticity:</td><td>SEN DIN 53156: > 6mm</td></tr> <tr> <td>Gardner resistance to impact:</td><td>25 Kg. x cm.</td></tr> </table>	Binder:	epoxy polyester	Specific gravity:	1.61 g/cm ³	Theoretical coverage:	10.4 m ² /kg with average film thickness 60 micron	Melting point:	85-95°C (Kofler bench method)	Granulometry:	standard distribution between 5 and 100 micron with average size of the particles between 30 and 40 micron. Hardening: 12 min. at 190°C (temperature of object)	Hardness:	1H - 2H	DIN 53152 bending elasticity:	unaltered on 1/4" spindle	DIN 53151 reticular adherence:	GT O (100%)	Erichem elasticity:	SEN DIN 53156: > 6mm	Gardner resistance to impact:	25 Kg. x cm.
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DIN 53151 reticular adherence:	GT O (100%)																				
Erichem elasticity:	SEN DIN 53156: > 6mm																				
Gardner resistance to impact:	25 Kg. x cm.																				

Tests carried out on degreased and phosphated sheets with film thickness of 60/70 micron.
The painting has passed the resistance tests to saline fog (193 hours).

Ambient characteristics

Type of installation	indoors
Installation conditions	Wall / Floor
Service climate (t° /% r.h.)	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

ABB SACE declaration of conformity

ArTu PB with the following rated characteristics:

Rated service voltage	up to 690 V
Rated insulation voltage	up to 1000V
Rated current / I _{CW}	ArTu PB up to 400A / 35kA flat busbar
	ArTu PB up to 800A / 50kA profiled busbar
Degree of protection	ArTu PB IP 43 (with door)

when correctly selected and assembled, as per the indications given in this catalogue and in the instruction manual, they allow construction of switchboards complying with the EN 60439-1 Standard, on the basis of what is foreseen by the Low Voltage Directive of the European Community (Directive 73/23/EEC, Law 791/1977).

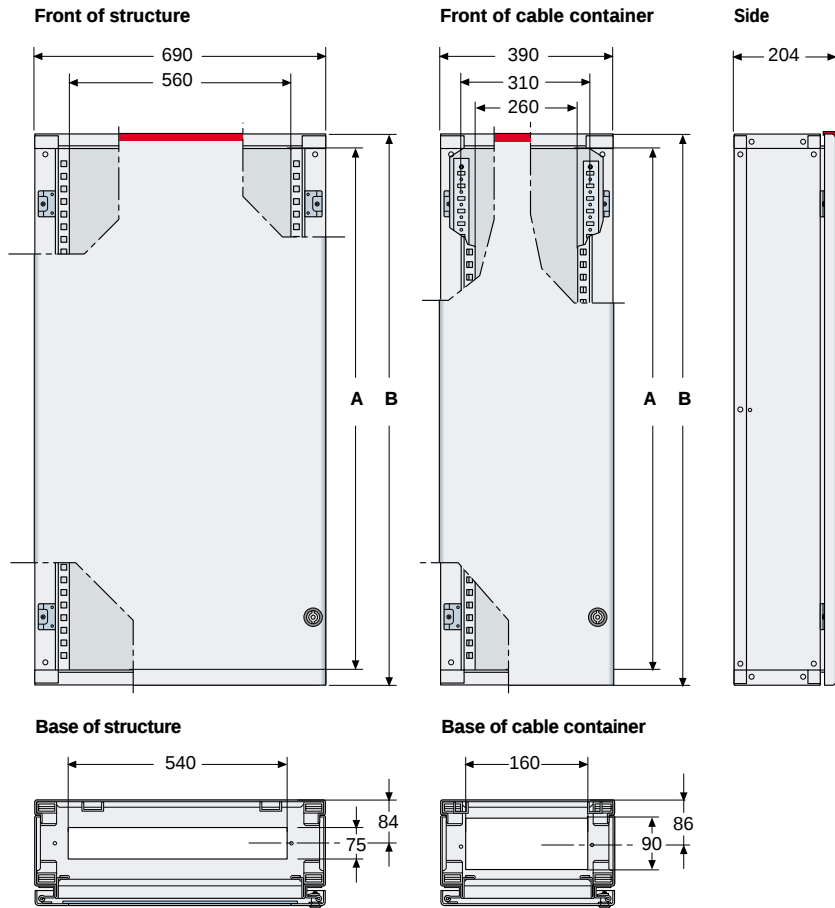
The above is valid if the switchboard is designed and constructed:

- selecting the materials according to the performances indicated in the ABB catalogues;
- sizing the conductors according to the prescriptions of the EN 60439-1 and CEI 64-8 Standards;
- carrying out the individual tests foreseen under the EN 60439-1 Standard successfully.

ArTu PB Panelboard

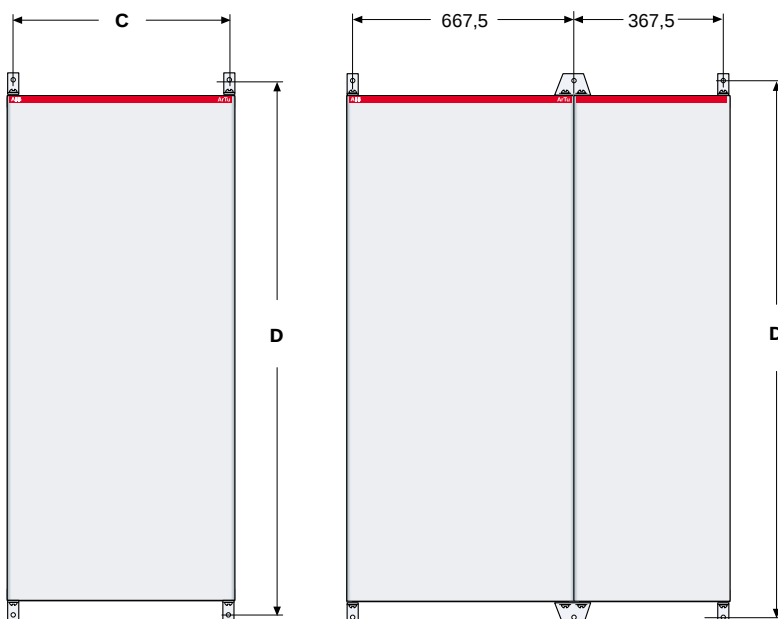
Overall Dimensions

ArTu PB



	A	B
Structure		
640T1PB3	1000	1050
640T3PB3		
680T3PB3	1200	1250
640T1PB4		
CU680PB3		
Cable container		
VC1000	1000	1050
VC1200	1200	1250

Fixing to wall



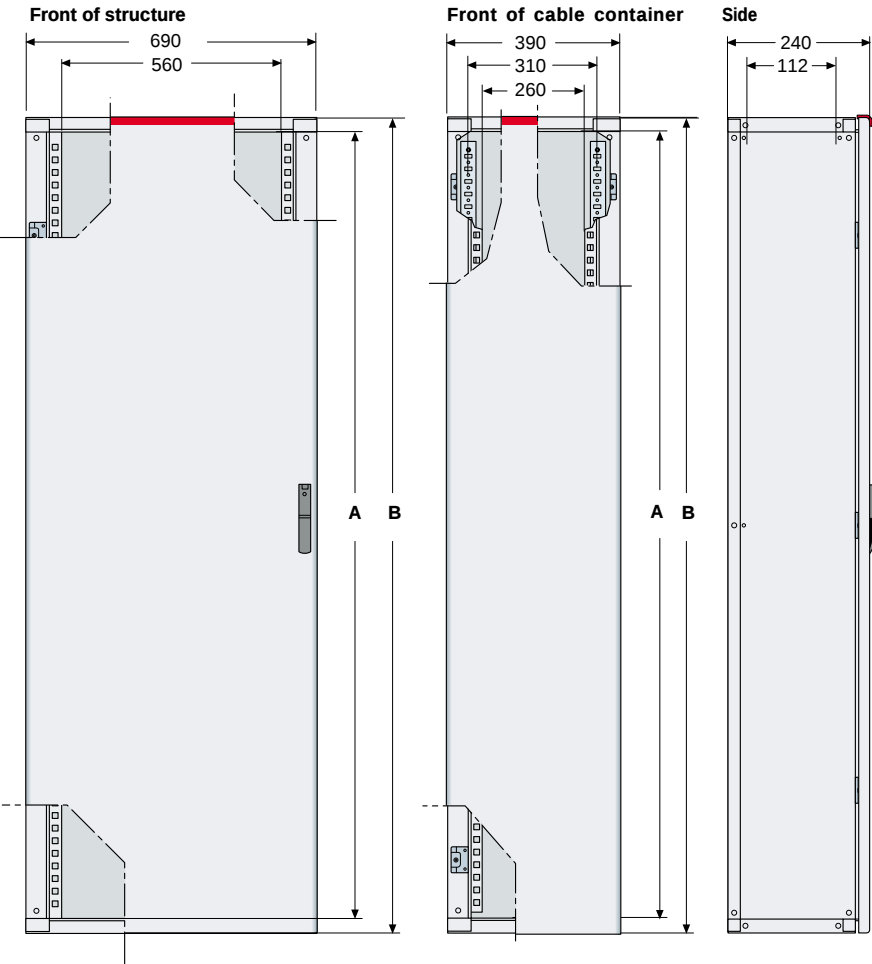
	C	D
Structure		
640T1PB3	645	1100
640T3PB3		
680T3PB3	645	1300
640T1PB4		
CU680PB3		
Cable container		
VC1000	345	1100
VC1400	345	1300

The measurements are in millimetres

ArTu PB Panelboard

Overall Dimensions

ArTu PB



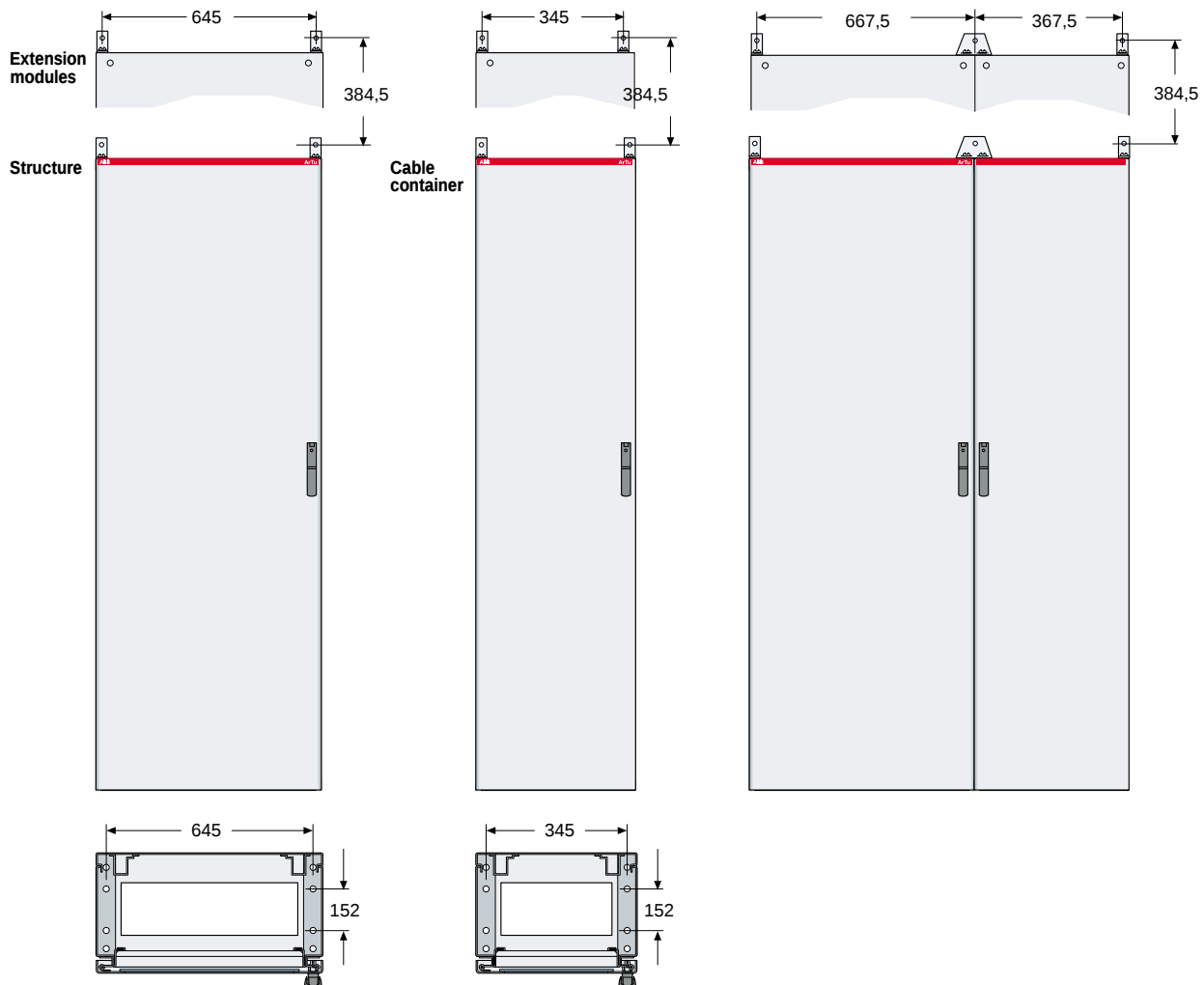
	A	B
Structure		
640T3PB4		
680T3PB4		
124T1PB3	1400	1450
128T1PB3		
CU680PB4		
124T3PB3		
128T3PB3		
124T1PB4	1600	1650
128T1PB4		
CU128PB3		
124T3PB4		
128T3PB4		
184T1PB3	1800	1850
188T1PB3		
CU128PB4		
188T3PB3		
184T1PB4		
188T1PB4	2000	2050
188T3PB4		
CU188PB3		
CU188PB4		
Cable container		
VC1400	1400	1450
VC1600	1600	1650
VC1800	1800	1850
VC2000	2000	2050

The measurements are in millimetres

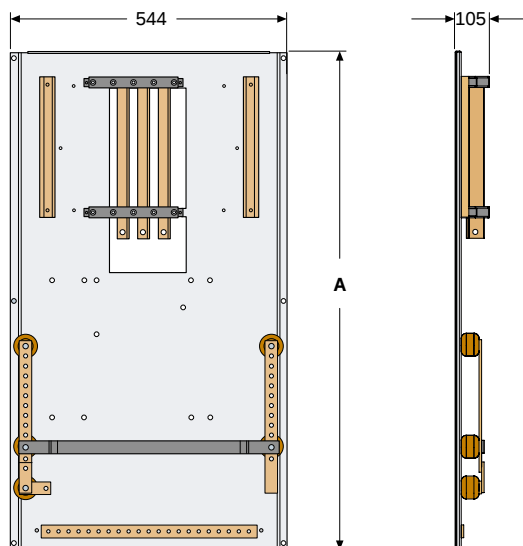
ArTu PB Panelboard

Overall Dimensions

ArTu PB Fixing to wall



Pan Assembly



	A
CU680PA3	1177
CU680PA4	1377
CU128PA3	1577
CU128PA4	1777
CU188PA3	1977
CU188PA4	1977

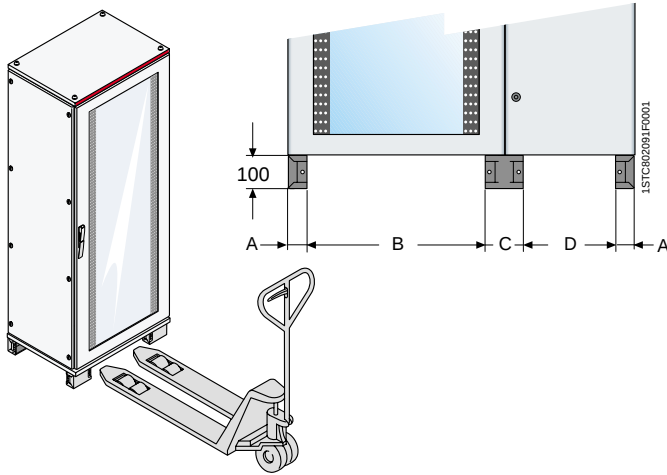
The measurements are in millimetres

ArTu PB Panelboard

Lifting and overhead travelling

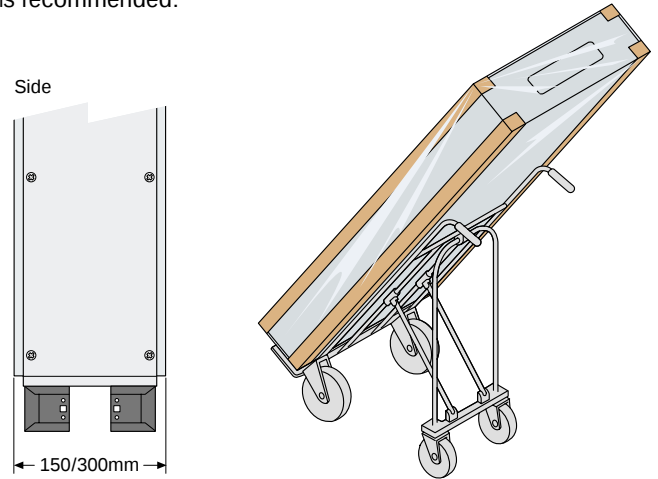
With transpallet

Palletisable base strip for ArTu PB

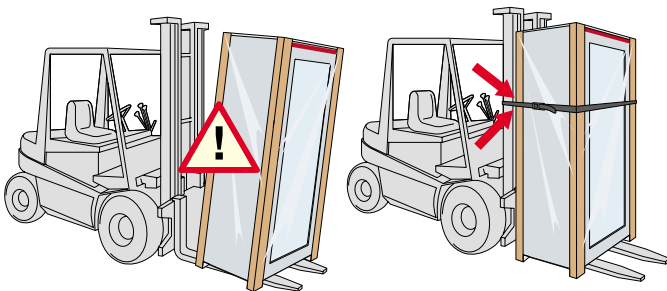


Structure	A (mm)	B (mm)	C (mm)	D (mm)
ArTu PB				
Width 600mm	47	596	97	296

For switchboards with reduced depth, the following type of handling is recommended:



For greater safety during transport using a fork-lift truck, it is advisable to anchor the switchboard to the truck:



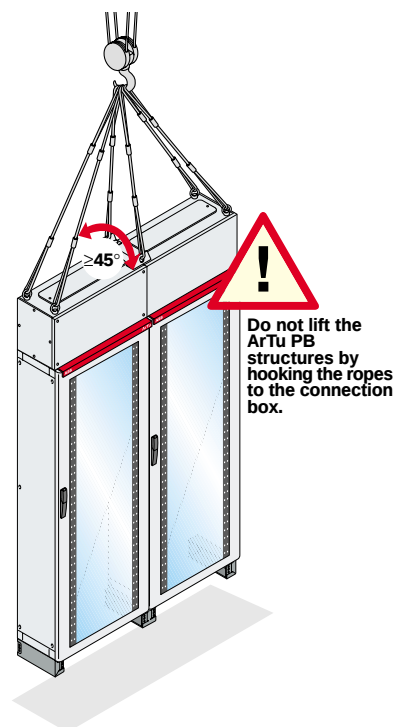
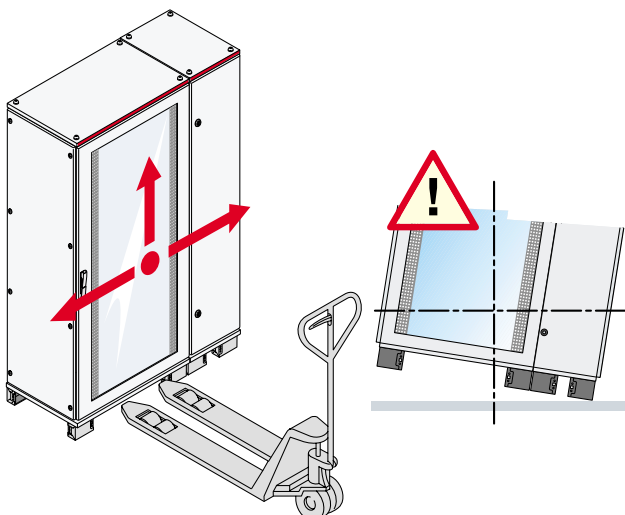
To handle using a crane or overhead travelling crane, check the following conditions before lifting the switchboard:

excellent state of the ropes or chains;

- the angle between the lifting ropes and the switchboard roof must be $\geq 45^\circ$;
- the maximum number of columns transported is 3;
- ArTu PB maximum weight lifted as per DIN 580 (M8).

To respect the conditions described above, a lifting beam with appropriate characteristics can be used when there are several columns side by side.

In the case of structures W=900mm (with internal or external cable container) containing busbar systems, check the centre of gravity before handling.



ArTu PB Panelboard

List of codes

Part Number	Description	Dimensions	Weights (Kg)	Page	Part Number	Description	Dimensions	Weights (Kg)	Page
640T1PB3	400A 6 way 3 pole T1 outgoing 160A	1050x690x204	74,9	5	ZL3000	Two Feet 100mm High For Side Extension Box		1,5	14
640T3PB3	400A 6 way 3 pole T3 outgoing 250A	1250x690x204	86,3	5	ZL2001	Finishing Profile For Side Extension Box		0,7	14
680T3PB3	800A 6 way 3 pole T3 outgoing 250A	1250x690x204	87,2	5	200EXMOD	200mm High top & bottom extension box	200h x 690w	12,5	14
640T1PB4	400A 6 way 4 pole T1 outgoing 160A	1250x690x204	85,6	5	RC1000	385mm structure extension box	385h x 690w	24,0	14
640T3PB4	400A 6 way 4 pole T3 outgoing 250A	1450x690x240	99,6	5	RC2000	385mm cable container extension box	385h x 390w	18,0	14
680T3PB4	800A 6 way 4 pole T3 outgoing 250A	1450x690x240	101,0	5	MI1000	Side Extension Box Uprights 1000mm	1000mm	2,8	14
124T1PB3	400A 12 way 3 pole T1 outgoing 160A	1450x690x240	100,1	5	VC1000	Side Extension Box Cable Container 1000mm	1000mm	9,8	14
124T3PB3	400A 12 way 3 pole T3 outgoing 250A	1650x690x240	109,5	5	PC1002	Side Extension Box Front Door 1000mm	1000mm	5,7	14
128T1PB3	800A 12 way 3 pole T1 outgoing 160A	1450x690x240	101,3	5	MI1200	Side Extension Box Uprights 1250mm	1250mm	3,4	14
128T3PB3	800A 12 way 3 pole T3 outgoing 250A	1650x690x240	111,1	5	VC1200	Side Extension Box Cable Container 1250mm	1250mm	11,7	14
124T1PB4	400A 12 way 4 pole T1 outgoing 160A	1650x690x240	112,0	5	PC1202	Side Extension Box Front Door 1250mm	1250mm	7,2	14
124T3PB4	400A 12 way 4 pole T3 outgoing 250A	1850x690x240	125,9	5	MI1400	Side Extension Box Uprights 1450mm	1450mm	4,0	14
128T1PB4	800A 12 way 4 pole T1 outgoing 160A	1650x690x240	114,1	5	VC1400	Side Extension Box Cable Container 1450mm	1450mm	13,7	14
128T3PB4	800A 12 way 4 pole T3 outgoing 250A	1850x690x240	128,7	5	PC1402	Side Extension Box Front Door 1450mm	1450mm	8,4	14
184T1PB3	400A 18 way 3 pole T1 outgoing 160A	1850x690x240	127,6	5	MI1600	Side Extension Box Uprights 1650mm	1650mm	4,5	14
188T1PB3	800A 18 way 3 pole T1 outgoing 160A	1850x690x240	130,0	5	VC1600	Side Extension Box Cable Container 1650mm	1650mm	15,0	14
188T3PB3	800A 18 way 3 pole T3 outgoing 250A	2050x690x240	138,6	5	PC1602	Side Extension Box Front Door 1650mm	1650mm	9,5	14
184T1PB4	400A 18 way 4 pole T1 outgoing 160A	2050x690x240	139,9	5	MI1800	Side Extension Box Uprights 1850mm	1850mm	5,1	14
188T1PB4	800A 18 way 4 pole T1 outgoing 160A	2050x690x240	143,0	5	VC1800	Side Extension Box Cable Container 1850mm	1850mm	16,2	14
188T3PB4	800A 16 way 4 pole T3 outgoing 250A	2050x690x240	145,1	5	PC1802	Side Extension Box Front Door 1850mm	1850mm	10,6	14
CU680PB3	6 Way 3 pole (800A Busbar) 1250mm High	1250x690x204	85,7	7	MI2000	Side Extension Box Uprights 2050mm	2050mm	5,7	14
CU128PB3	12 Way 3 pole (800A Busbar) 1650mm High	1650x690x240	105,9	7	VC2000	Side Extension Box Cable Container 2050mm	2050mm	18,0	14
CU188PB3	18 Way 3 pole (800A Busbar) 2050mm High	2050x690x240	128,7	7	PC2002	Side Extension Box Front Door 2050mm	2050mm	11,8	14
CU680PB4	6 Way 4 pole (800A Busbar) 1450mm High	1450x690x240	95,3	7	PLT11L1/L3P	T1 Single Pole L1 & L3 plug in base		0,3	15
CU128PB4	12 Way 4 pole (800A Busbar) 1850mm High	1850x690x240	117,3	7	PLT11L2P	T1 Single Pole L2 plug in base		0,3	15
CU188PB4	18 Way 4 pole (800A Busbar) 2050mm High	2050x690x240	131,3	7	PLT13P	T1 Three Pole plug in base		0,9	15
CU680PA3	6 Way 3 pole (800A Busbar) 1177mm High	1177x544x105	18,0	9	PLT14P	T1 Four Pole plug in base		0,4	15
CU128PA3	12 Way 3 pole (800A Busbar) 1577mm High	1577x544x105	24,0	9	PLT23P	T2 Three Pole plug in base		1,0	15
CU188PA3	18 Way 3 pole (800A Busbar) 1977mm High	1977x544x105	27,9	9	PLT24P	T2 Four Pole plug in base		0,4	15
CU680PA4	6 Way 4 pole (800A Busbar) 1377mm High	1377x544x105	19,0	9	PLT33P	T3 Three Pole plug in base		1,1	15
CU128PA4	12 Way 4 pole (800A Busbar) 1777mm High	1777x544x105	25,8	9	PLT34P	T3 Four Pole plug in base		0,5	15
CU188PA4	18 Way 4 pole (800A Busbar) 1977mm High	1977x544x105	30,5	9	PLRCD	Dummy Base For RCD		0,9	15
400DC3/4P	400A Direct connection kit 3 and 4 pole		1,0	10	SH630	Busbar Shroud 630mm Long 3 pcs	630mm Long	0,3	15
800DC3P	800A Direct connection kit 3 pole		2,2	10	MODT1	T1 Busbar Shroud 10pcs		0,1	15
800DC4P	800A Direct connection kit 4 pole		2,6	10	MODT2	T2 Busbar Shroud 10pcs		0,1	15
P6X6DC	Direct connection inner door		4,8	10	MODT3	T3 Busbar Shroud 10pcs		0,1	15
250T33P	250A T3 3 pole MCCB connection kit		3,0	10	SPARE1	Spares Kit		0,8	15
250T34P	250A T3 4 pole MCCB connection kit		3,4	10	200EXMET	200mm High metering box	200h x 690w	11,8	
P6X6T3	T3 inner door		7,53	10					
400S53P	400A S5 3 pole MCCB connection kit		3,6	10					
400S54P	400A S5 4 pole MCCB connection kit		4,2	10					
630S53P	630A S5 3 pole MCCB connection kit		3,7	10					
630S54P	630A S5 4 pole MCCB connection kit		4,4	10					
P6X6S5	S5 inner door		7,53	10					
800S63P	800A S6 3 pole MCCB connection kit		3,1	10					
800S64P	800A S6 4 pole MCCB connection kit		3,5	10					
P6X6S6	S6 inner door		7,53	10					
PV1000	Glazed Door 1000mm	1000h x 690w	10,3	14					
PV1200	Glazed Door 1200mm	1200h x 690w	12,3	14					
PV1400	Glazed Door 1400mm	1400h x 690w	14,4	14					
PV1600	Glazed Door 1600mm	1600h x 690w	16,3	14					
PV1800	Glazed Door 1800mm	1800h x 690w	18,3	14					
PV2000	Glazed Door 2000mm	2000h x 690w	20,3	14					
ZL1000	Four Corner Feet 100mm High For Main Structure		2,5	14					
ZL1001	Finishing Profile For Above Plinth		1,1	14					



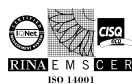
Certificate N°OHS-015



Certificate N°1612/98/S



Certificate N° EMS-051



To take into account the evolution of Standards and materials, the characteristics and overall dimensions indicated in this catalogue can only be considered binding after confirmation from ABB SACE.

ABB SACE S.p.A.

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