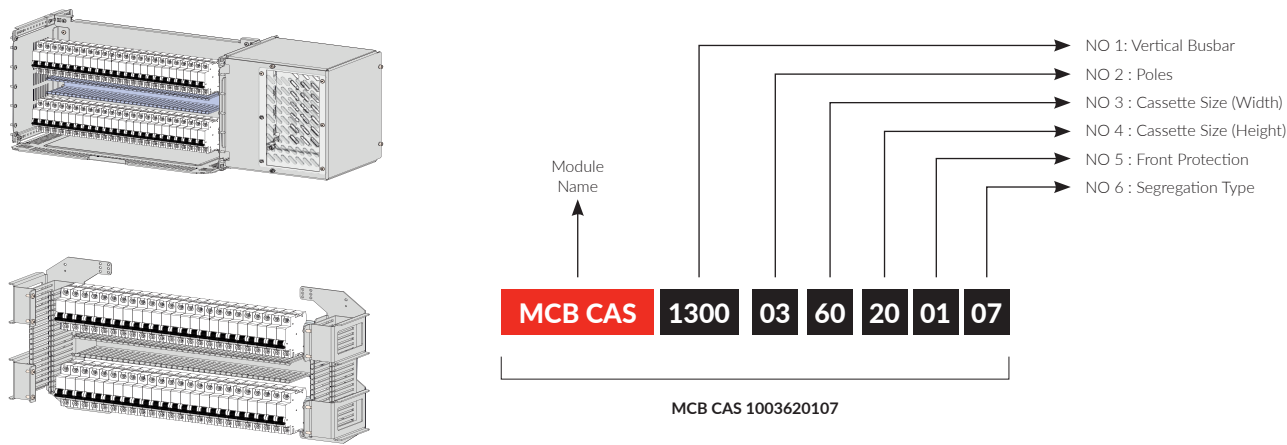


MCB (Miniature Circuit Breaker) CASSETTE

09/2021



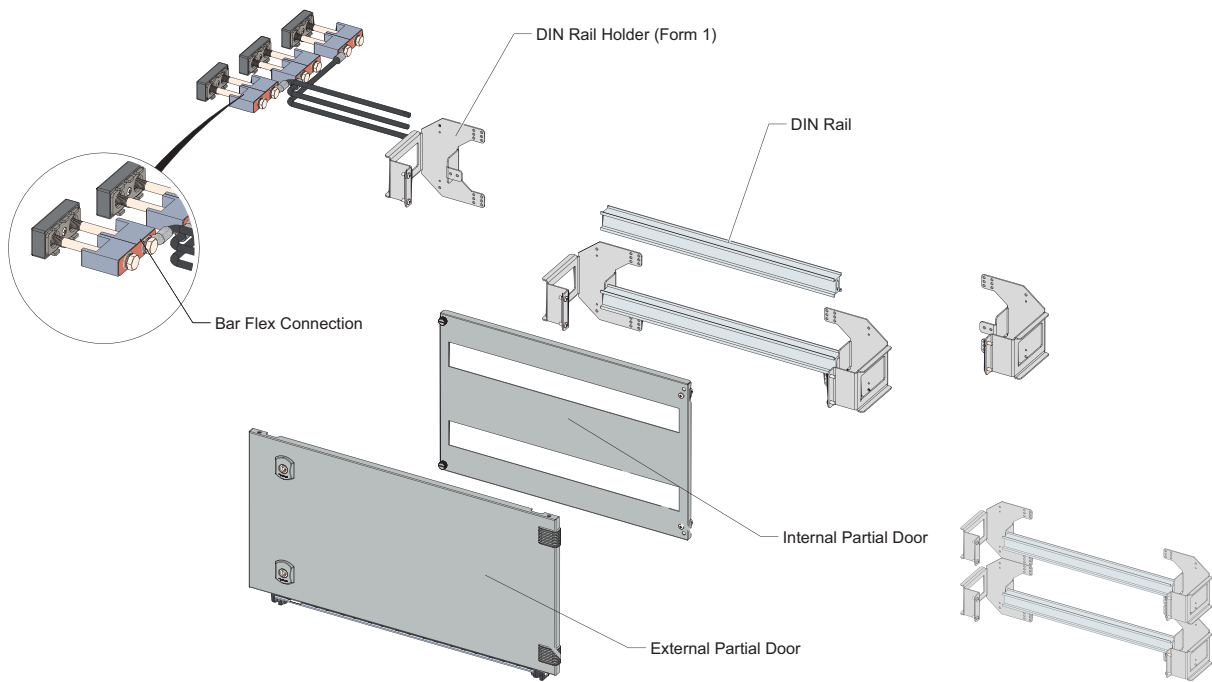
SELECTION CHARACTERISTICS



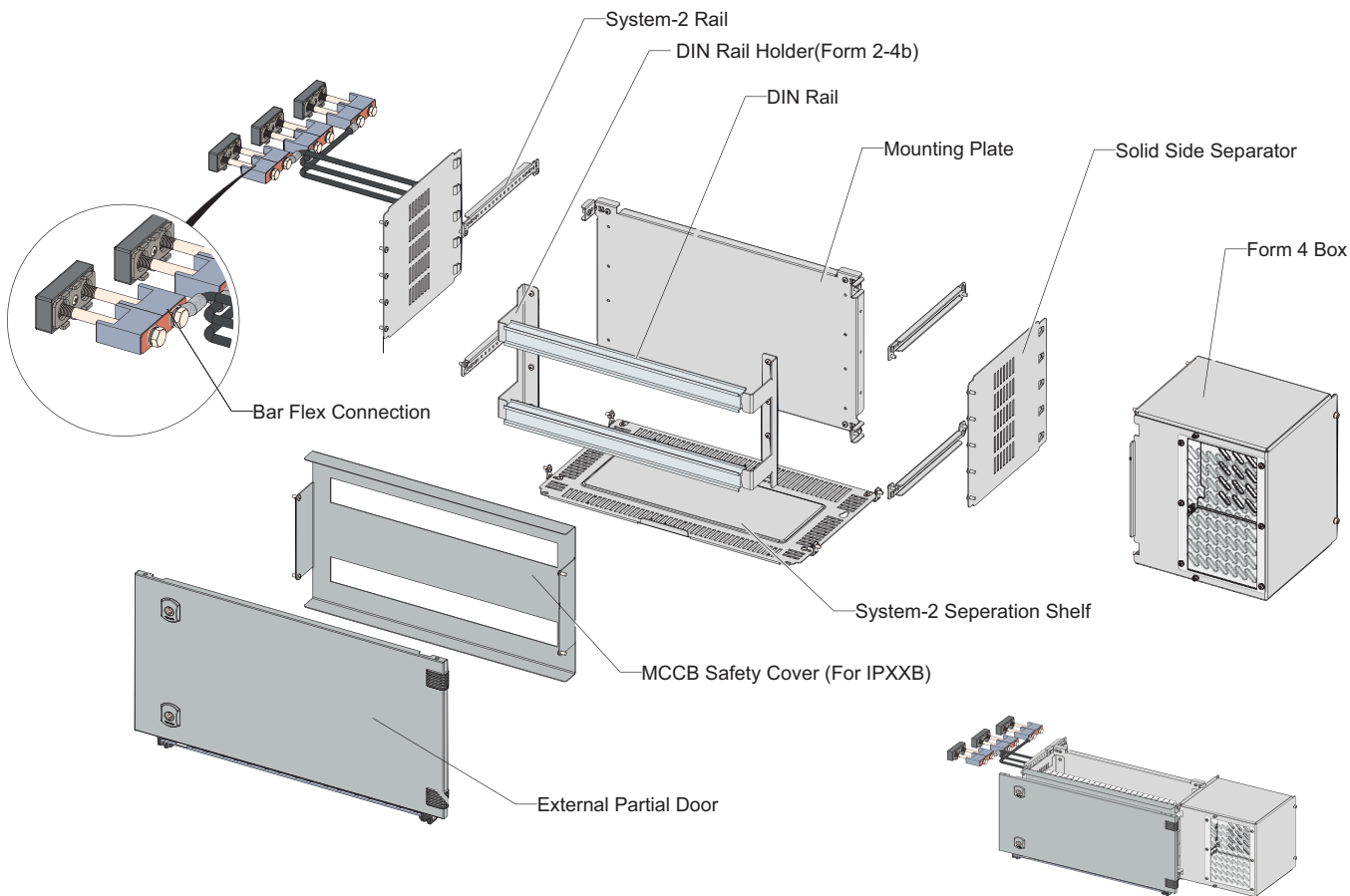
NO 1			NO 2		NO 3		NO 4		NO 5		NO 6	
Selection Code	Vertical Busbar(In)	Module Depth(D)	Selection Code	Poles	Selection Code	Cassette Width(W)	Selection Code	Cassette Height(H)	Selection Code	Front Protection	Selection Code	Segregation Type
0495	495A	600/800	03	3	40	400	20	200	01	Internal	01	Form 1
0700	700A	600/800	04	4	60	600	30	300	02	External	02	Form 2a
0900	900A	600/800			80	800					03	Form 2b
1100	1100A	600/800			04	Form 3a						
1300	1300A	600/800			05	Form 3b						
1350	1350A	600/800			06	Form 4a						
1620	1620A	600/800			07	Form 4b						
1860	1860A	600/800										
2300	2300A	600/800										
2500	2500A	800										
3000	3000A	800										
3400	3400A	800										
4000	4000A	800										

CONCEPT OF EMPTY CASSETTE

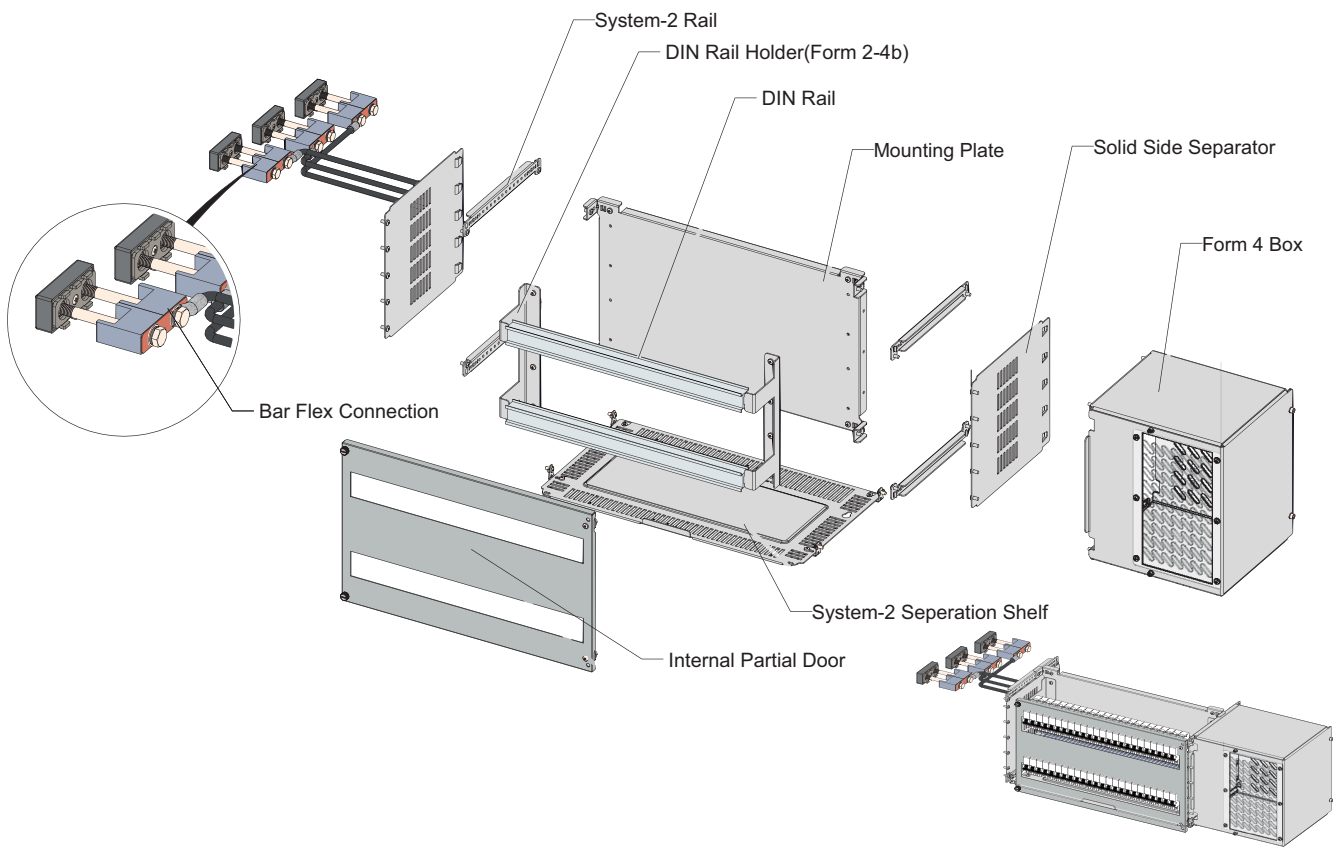
WITH EXTERNAL/INTERNAL DOOR (Form 1)



WITH EXTERNAL PARTIAL DOOR (Form 2-4b)



WITH INTERNAL PARTIAL DOOR (Form 2-4b)

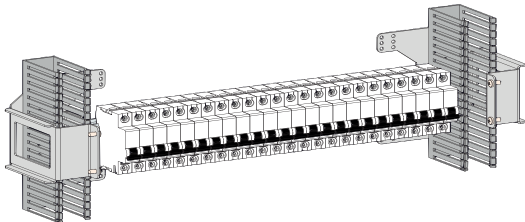


■ NO 1 : CASSETTE SIZE

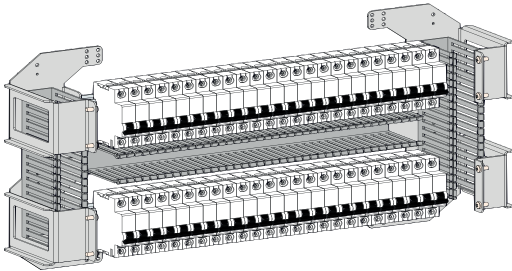
CASSETTE WIDTH(W)	CASSETTE HEIGHT(H)	ROWS	DIN MODE
400	200	1	12 (12x1)
	300	2	24 (12x2)
600	200	1	24 (24x1)
	300	2	48 (24x2)
600	200	1	36 (36x1)
	300	2	72 (36x2)

- PDS deliveries cable/conductor connection kits of vertical busbar to cassette. For that reason Pole type selection is important to get the correct quantities.
- When selecting cassettes, the user must to be consider the pole type of the module and pole type of the cassette have to be compatible.

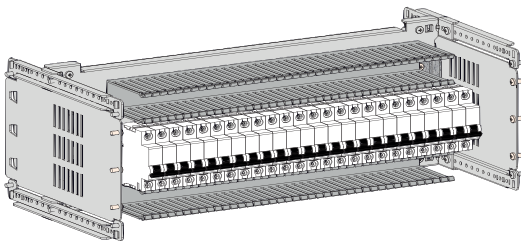
200mm Heigth
Form 1



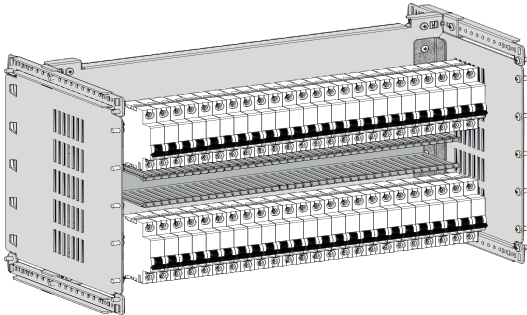
300mm Heigth
Form 1



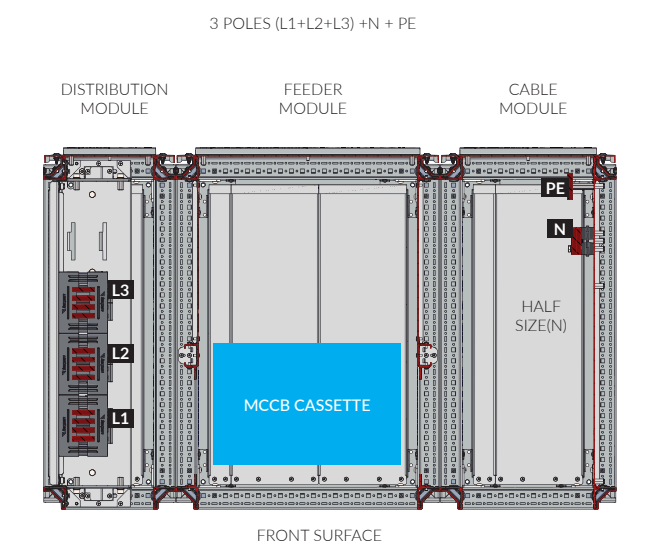
Form 2-4b



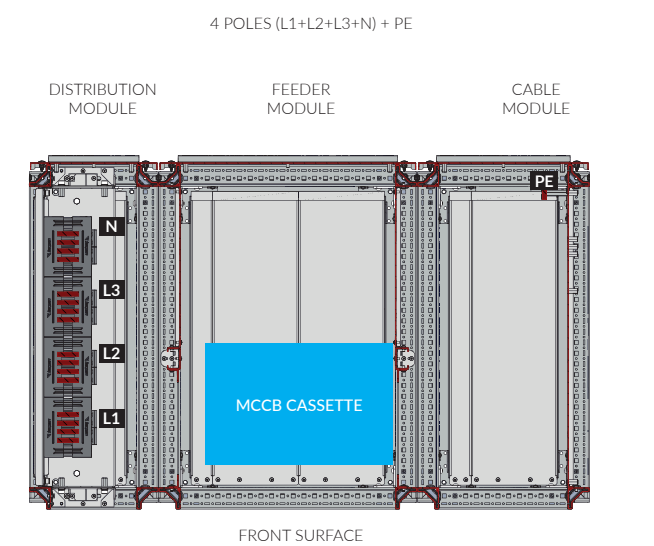
Form 2-4b



■ NO 2: VERTICAL BUSBAR of DISTRIBUTION IN THE MODULE



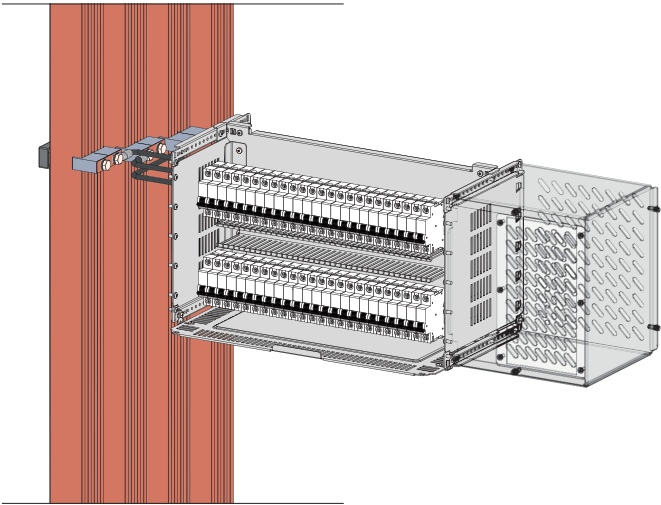
! Note : 3 Phases vertical busbar position (L1+L2+L3)+N is valid in TN-S(1/2), TN-C (PEN)(1/2), TN-C-S(1/2) and TT(1/2) configurations in NO 3. Please see at Earthing System



! Note : 4 Phases vertical busbar position (L1+L2+L3+N) is valid in only TN-S(1/1) and TT(1/1) configurations in NO 3. Please see at Earthing System

AMBIANCE TEMP : 25°C, HEATING TEMP : 30°C, 50 Hz A.C.			
Module Depth	Rated Current (In)	Flat Copper Size (mm) x Qty	
		L1/L2/L3	Neutral(N)
600D/800D	495A	20/5x2	20/5x2
600D/800D	700A	30/5x2	30/5x2
600D/800D	900A	40/5x2	40/5x2
600D/800D	1100A	50/5x2	50/5x2
600D/800D	1300A	60/5x2	60/5x2
600D/800D	1350A	40/10x2	40/10x2
600D/800D	1620A	50/10x2	50/10x2
600D/800D	1860A	60/10x2	60/10x2
600D/800D	2300A	80/10x2	80/10x2
800D	2500A	40/10x4	40/10x4
800D	3000A	50/10x4	50/10x4
800D	3400A	60/10x4	60/10x4
800D	4000A	80/10x4	80/10x4

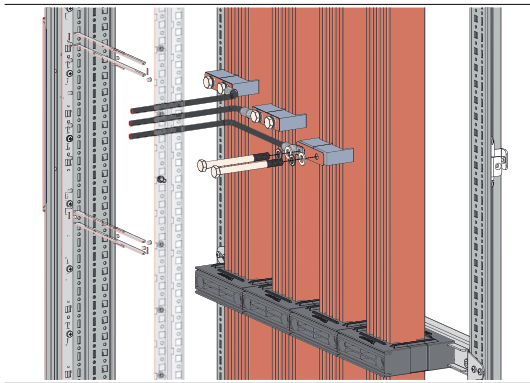
- First important selection is Vertical Busbar Type of the module feeding.
- When loading the feeder module with cassettes, the user must to be consider the total power capacity of vertical power with usage factor.
- PDS deliveries cable/conductor connection kits of vertical busbar to cassette. For that reason vertical busbar type and size selection is important to get the correct kit.



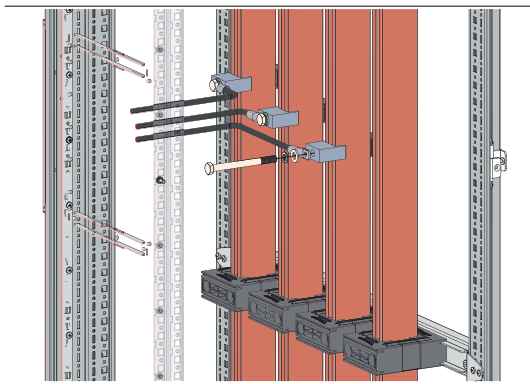
- Second important selection is Pole Type of the cassette feeding.
- There are two type of selection : 3 Poles (**L1+L2+L3**) +N+PE or 4 Poles (**L1+L2+L3+N**)+PE as the user demand.
- PDS deliveries cable/conductor connection kits of vertical busbar to cassette. For that reason Pole type selection is important to get the correct quantities.
- When selecting cassettes, the user must to be consider the pole type of the module and pole type of the cassette have to be compatible.
- If user selects 4 poles cassette have to be sure that the module earthing configuration comprises **TN-S(1/1) or TT(1/1)**.

For 3 poles selection the user can be choose all type of earthing configurations. Please see at earthing configuration sheets and instructions.

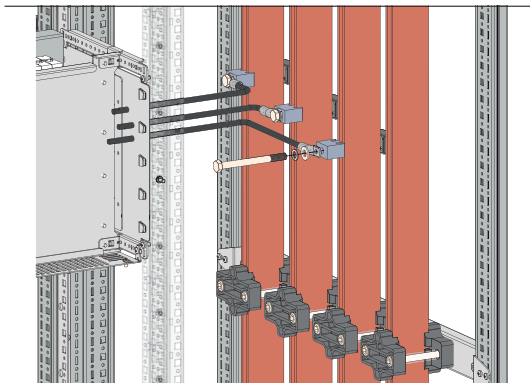
- * The busbar connection kits comprise ;
- (a) Flex connect busbar nut according to quantities and thickness of flat bars in each pole
 - (b) Bar connection part works as a conductor and spacer according to quantities and thickness of flat bars in each pole
 - (c) Hexagon head screw and safety washers according to height of flat bars.



MCB	Hexagon Head Bolt Selection (800D)				Split Lock Washer	Flat Washer
	4000A	3400A	3000A	2500A		
	80/10	60/10	50/10	40/10		
	M10x150	M10x130	M10x120	M10x110	M10	M10



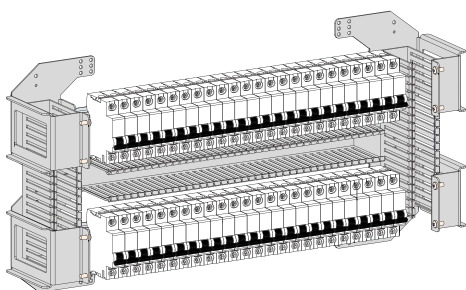
MCB	Hexagon Head Bolt Selection(600D/800D)				Split Lock Washer	Flat Washer
	2300A	1860A	1620A	1350A		
	80/10	60/10	50/10	40/10		
	M8x135	M8x115	M8x105	M8x95	M8	M8



MCB	Hexagon Head Bolt Selection(600D/800D)					Split Lock Washer	Flat Washer
	1300A	1100A	900A	700A	495A		
	60/5	50/5	40/5	30/5	30/5		
	M8x105	M8x95	M8x85	M8x75	M8x65	M8	M8

■ NO 3 : SEGREGATION TYPE

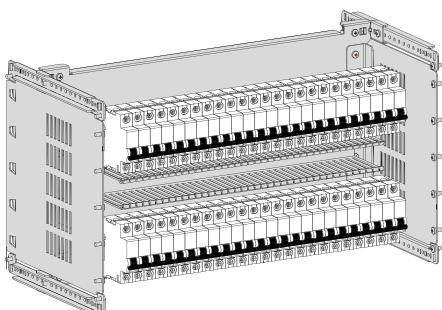
Form 1



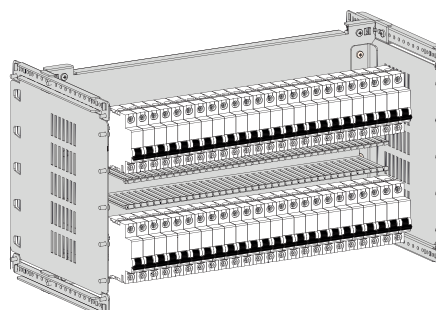
! Selecting cassettes, the user must be consider the segregation of the module and the cassette have to be compatible.

- See the details for assembling cassettes according to Form types in assembling drawings and instructions.

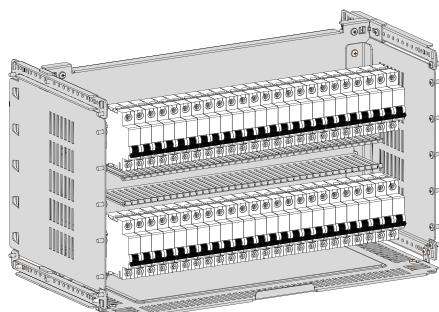
Form 2a



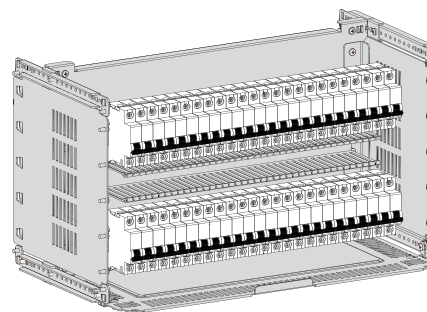
Form 2b



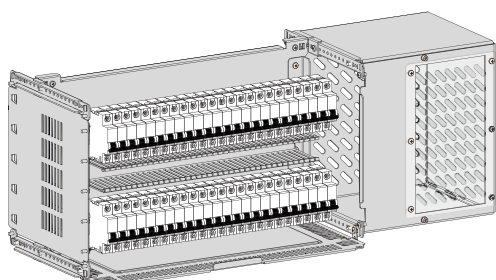
Form 3a



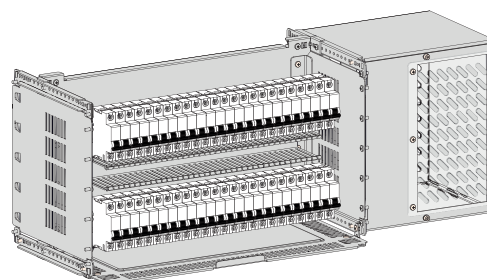
Form 3b



Form 4a

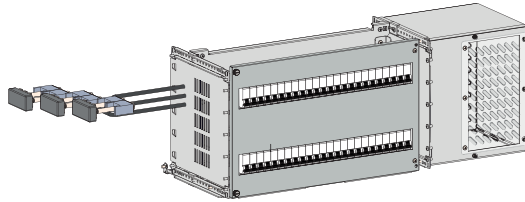


Form 4b

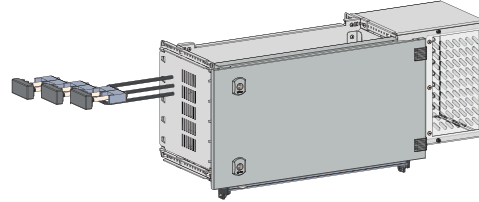


■ NO 4 : FRONT PROTECTION

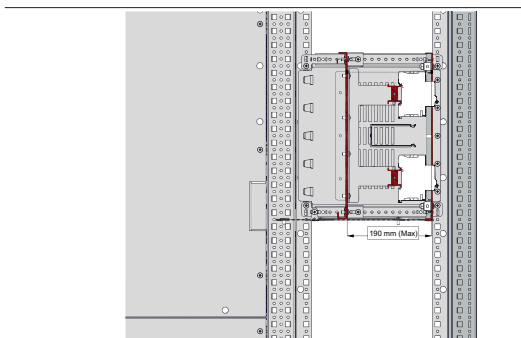
Internal Protection



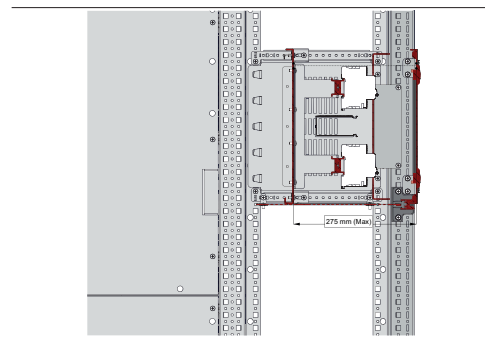
External Protection



Depth View Size of Internal Protection



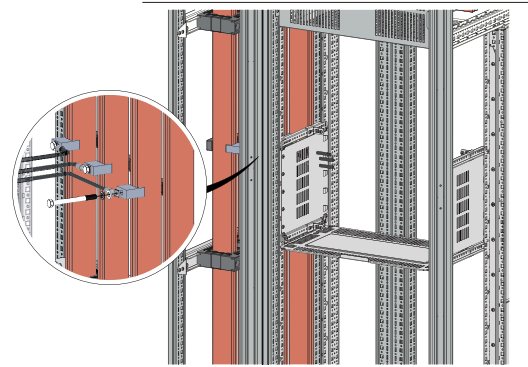
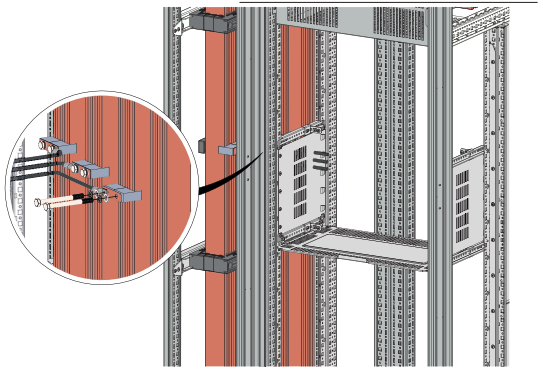
Depth View Size of External Protection



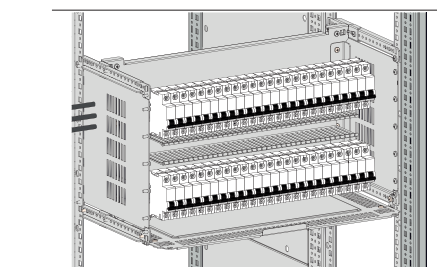
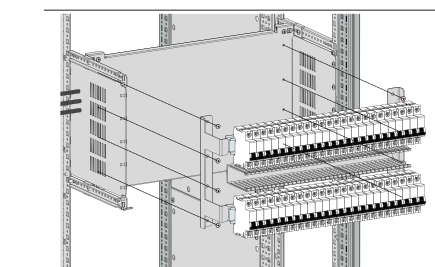
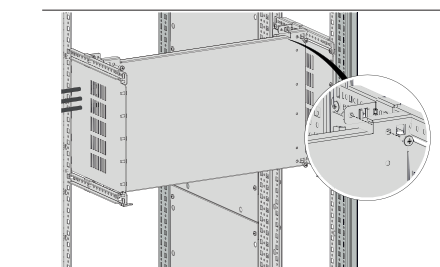
! Selecting cassettes, the user must to be consider the front protection of the module and the cassette have to be compatible.

■ NO : 5 INSTALLATION OF A MCCB CASSETTE

Conductor Connections from Distribution Busbar
to MCCB Input

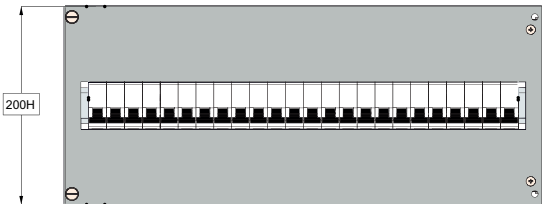


Fixing of an MCCB Cassette into Module

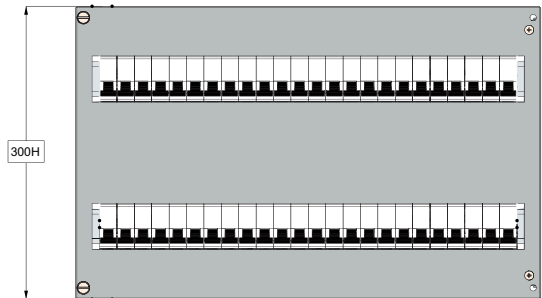




1.SIZING THE CASSETTE



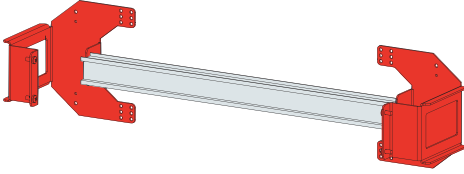
POLE	WIDTH(W)*	HEIGHT(H)	HEIGHT(H)
400	200	1	12 (12x1)
	300	2	24 (12x2)
600	200	1	24 (12x1)
	300	2	48 (12x2)
800	200	1	36 (12x1)
	300	2	72 (13x2)



■ 2.MCB MOUNTING SYSTEM

■ 2.1 MCB MOUNTING SYSTEM (FORM-1)

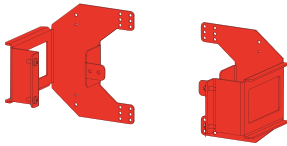
■ 2.1.1 MCB ASSEMBLY KIT (FORM 1)



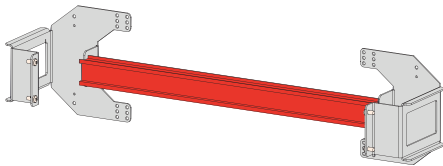
HEIGHT(H)	REF. NO.	PACKAGE QTY. (set)	REQUIRED QTY. (pcs)
200	1046.020	1 set	1
300	1046.020	1 set	2

● (1 Set = 2 pcs.)

● **Please compare** the required quantities with the packs of ordering codes.

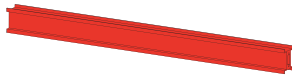


■ 2.1.2 MCB RAIL



HEIGHT(H)	WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
200	400	1046.940	1 pc.	1
200	600	1046.960	1 pc.	1
200	800	1046.980	1 pc.	1
300	400	1046.940	1 pc.	2
300	600	1046.960	1 pc.	2
300	800	1046.980	1 pc.	2

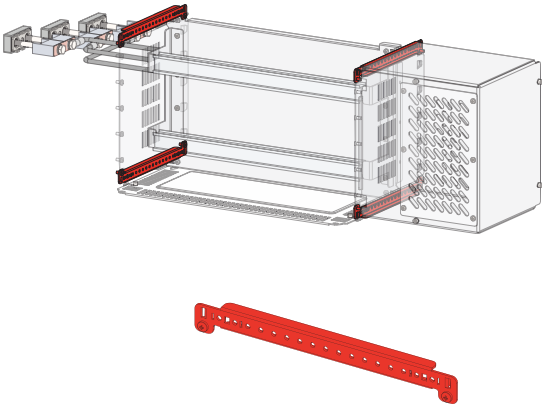
● **Please compare** the required quantities with the packs of ordering codes.





■ 2.2 MCB MOUNTING SYSTEM (FORM 2-FORM 4B)

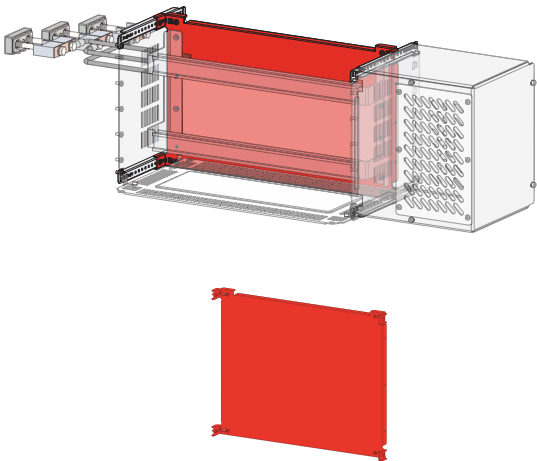
■ 2.2.1 SYSTEM-2 FRAME



REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
1037.001	4 pcs.	4

● Please compare the required quantities with the packs of ordering codes.

■ 2.2.2 MOUNTING PLATE

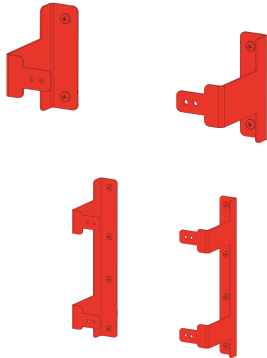
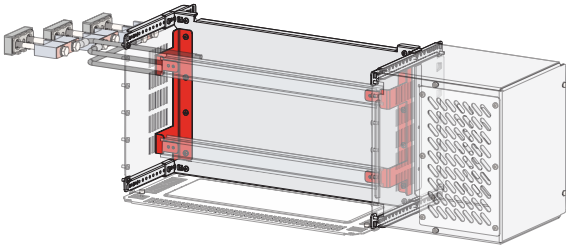


WIDTH(W)	HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
400	200	1038.420	1 pc.	1
400	300	1038.430	1 pc.	1
600	200	1038.620	1 pc.	1
600	300	1038.630	1 pc.	1
800	200	1038.820	1 pc.	1
800	300	1038.830	1 pc.	1

● Please compare the required quantities with the packs of ordering codes.



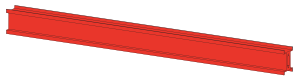
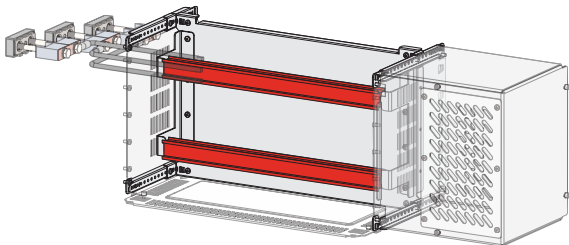
■ 2.2.3 MCB ASSEMBLY KIT (FORM 2-FORM 4B)



HEIGHT(H)	REF. NO.	PACKAGE QTY. (set)	REQUIRED QTY. (pcs)
200	1046.020	1 set	1
300	1046.030	1 set	2

- (1 Set = 2 pcs.)
- Please compare the required quantities with the packs of ordering codes.

■ 2.2.2 MCB RAIL



HEIGHT(H)	WIDTH(W)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
200	400	1046.940	1 pc.	1
200	600	1046.960	1 pc.	1
200	800	1046.980	1 pc.	1
300	400	1046.940	1 pc.	2
300	600	1046.960	1 pc.	2
300	800	1046.980	1 pc.	2

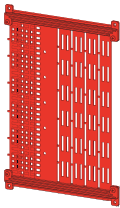
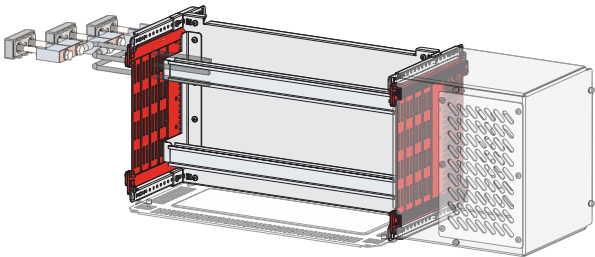
- Please compare the required quantities with the packs of ordering codes.



3.SEPARATION

3.1 SIDE SEPARATION

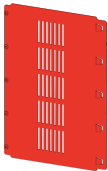
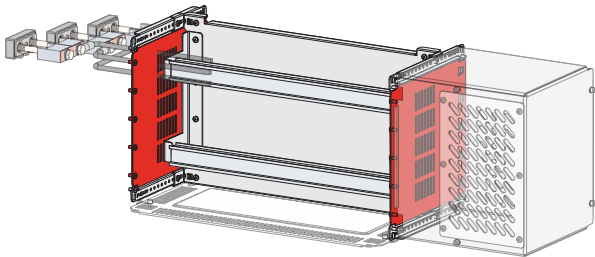
3.1.1 MODULAR SIDE SEPARATION COVER (OPTIONAL)



HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
200	1041.020	1 pc.	1/2**
300	1041.030	1 pc.	1/2**

- **Please compare** the required quantities with the packs of ordering codes.
- **MODULAR SIDE SEPARATION COVER** must be selected only if it is necessary.
- 1 pieces required with **Form 2b, Form 4a** seperating options.
- 2 pieces required with **Form 2a, Form 3a, Form 3b, Form 4b** seperating options.

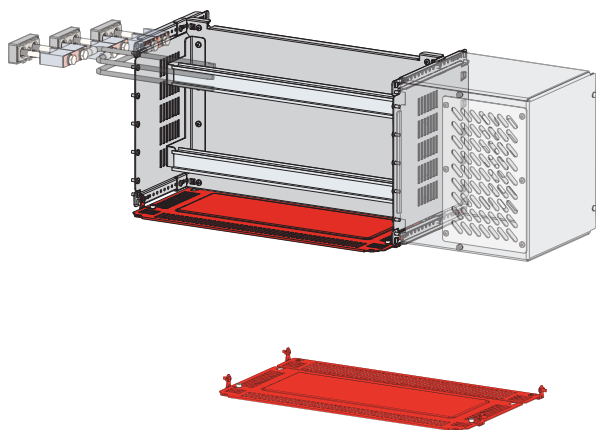
3.1.2 SIDE SEPARATION COVER



HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
200	1033.200	1 pc.	1/2**
300	1033.300	1 pc.	1/2**

- **Please compare** the required quantities with the packs of ordering codes.
- **MODULAR SIDE SEPARATION COVER** must be selected only if it is necessary.
- 1 pieces required with **Form 2b, Form 4a** seperating options.
- 2 pieces required with **Form 2a, Form 3a, Form 3b, Form 4b** seperating options.

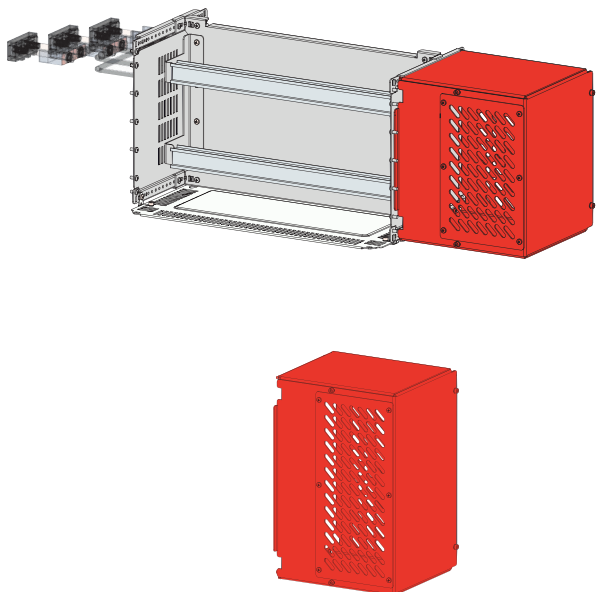
■ 3.2 SYSTEM-2 SEPARATION SHELF



HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
400	1032.040	1 pc.	1
600	1032.060	1 pc.	1
800	1032.080	1 pc.	1

- **BOTTOM SEPARATION SHELF** must be selected with **Form 3a, Form 3b, Form 4a, Form 4b** separating options.
- **Please compare** the required quantities with the packs of ordering codes.

■ 3.3 FORM 4 SEPARATION BOX



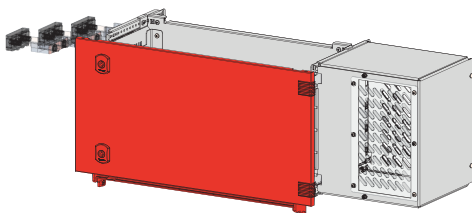
HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
200	1042.020	1 pc.	1
300	1042.030	1 pc.	1

- **FORM 4 SEPARATION BOX** must be selected with **Form 4a, Form 4b** separating options.
- **Please compare** the required quantities with the packs of ordering codes.



4.FRONT DOOR

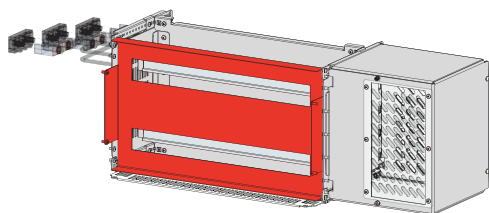
4.1 EXTERNAL PARTIAL DOOR



WIDTH(W)	HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
400	200	853.420	1 pc.	1
400	300	853.430	1 pc.	1
600	200	853.620	1 pc.	1
600	300	853.630	1 pc.	1
800	200	853.820	1 pc.	1
800	300	853.830	1 pc.	1

● **EXTERNAL DOOR** must be selected only if it is necessary.

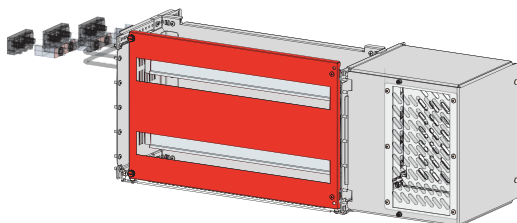
4.2 MCB SAFETY COVER



WIDTH(W)	HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
400	200	1065.420	1 pc.	1
400	300	1065.430	1 pc.	1
600	200	1065.620	1 pc.	1
600	300	1065.630	1 pc.	1
800	200	1065.820	1 pc.	1
800	300	1065.830	1 pc.	1

- This part can be used with **EXTERNAL PARTIAL DOOR**.
- **MCB SAFETY COVER** could be selected with **Form 4a**, **Form 4b** separating options.
- **Please compare** the required quantities with the packs of ordering codes.

4.3 INTERNAL PARTIAL DOOR



WIDTH(W)	HEIGHT(H)	REF. NO.	PACKAGE QTY. (pcs)	REQUIRED QTY. (pcs)
400	200	954.420	1 pc.	1
400	300	954.430	1 pc.	1
600	200	954.620	1 pc.	1
600	300	954.630	1 pc.	1
800	200	954.820	1 pc.	1
800	300	954.830	1 pc.	1

- This part can be used with **EXTERNAL PARTIAL DOOR**.
- **MCB SAFETY COVER** must be selected with **Form 4a**, **Form 4b** separating options.
- **Please compare** the required quantities with the packs of ordering codes.



5. VERTICAL BUSBAR CONNECTION

5.1 VERTICAL BUBAR CONNECTION (L1, L2, L3, N)

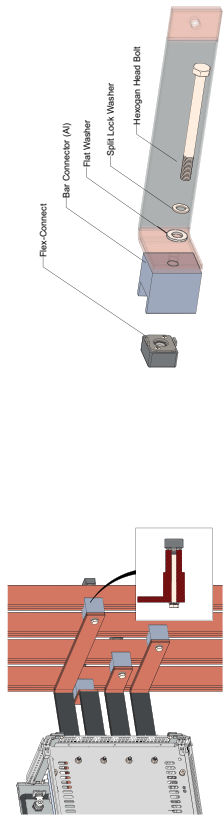


VERTICAL BUSBAR(A)	BAR CONNECTION				FLEX-CONNECT				BOLT SIZE				FLAT WASHER				SPLIT LOCK WASHER			
	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)
4000	1051.020	1 pc.	6	2	1035.001	20 pc.	3	1	1054.140	20 pc.	6	2	1035.201	20 pc.	18	6	1035.211	20 pc.	6	2
3400	1051.020	1 pc.	6	2	1035.001	20 pc.	3	1	1054.120	20 pc.	6	2	1035.201	20 pc.	18	6	1035.211	20 pc.	6	2
3000	1051.020	1 pc.	6	2	1035.001	20 pc.	3	1	1054.110	20 pc.	6	2	1035.201	20 pc.	18	6	1035.211	20 pc.	6	2
2500	1051.020	1 pc.	6	2	1035.001	20 pc.	3	1	1054.100	20 pc.	6	2	1035.201	20 pc.	18	6	1035.211	20 pc.	6	2

● Please compare the required quantities with the packs of ordering codes.

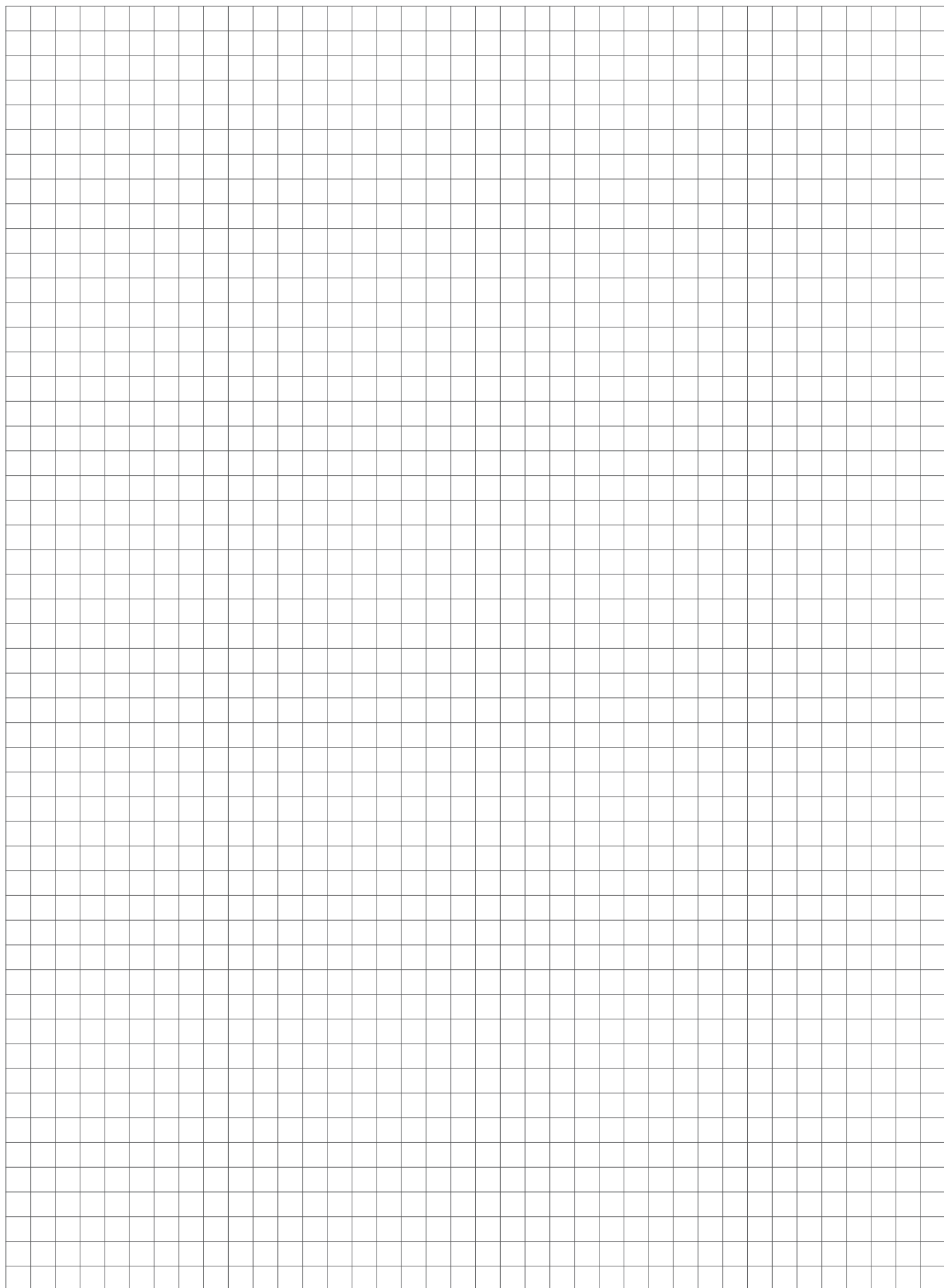


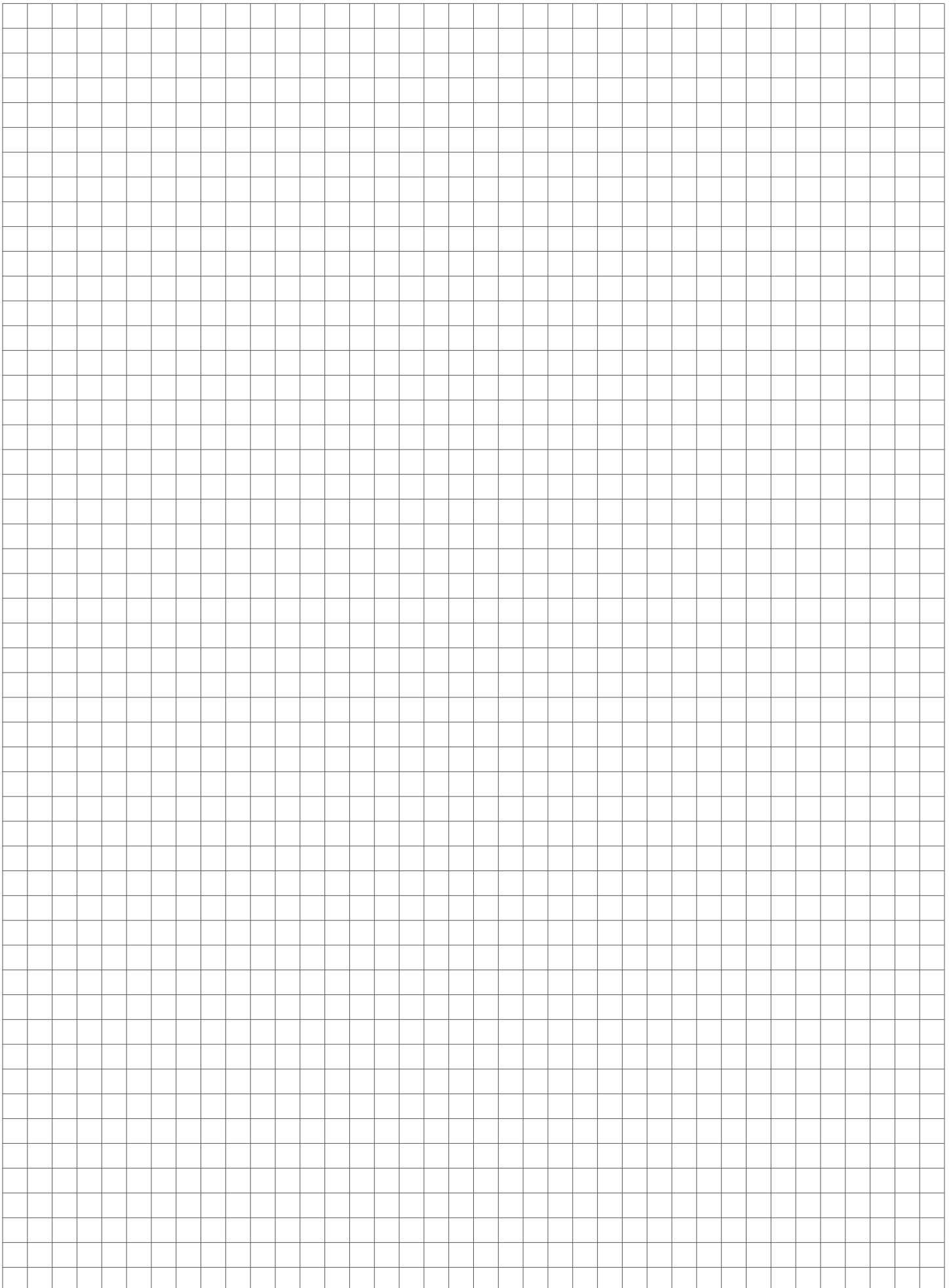
■ 5.1 VERTICAL BUBAR CONNECTION (L1, L2, L3, N)



VERTICAL BUSBAR(A)	BAR CONNECTION				FLEX-CONNECT				BOLT SIZE				FLAT WASHER				SPLIT LOCK WASHER			
	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)	REF. NO.	PACK. QTY. (pcs)	REQUIRED QTY. (pcs) (L1, L2, L3)	REQUIRED QTY. (pcs) (N)
2300	1051.020	1 pc.	3	1	1035.011	40 pc.	3	1	1053.140	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
1860	1051.020	1 pc.	3	1	1035.011	40 pc.	3	1	1053.120	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
1620	1051.020	1 pc.	3	1	1035.011	40 pc.	3	1	1053.110	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
1350	1051.020	1 pc.	3	1	1035.011	40 pc.	3	1	1053.100	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
1300	1051.120	1 pc.	3	1	1035.011	40 pc.	3	1	1053.105	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
1100	1051.120	1 pc.	3	1	1035.011	40 pc.	3	1	1053.095	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
900	1051.120	1 pc.	3	1	1035.011	40 pc.	3	1	1053.085	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
730	1051.120	1 pc.	3	1	1035.011	40 pc.	3	1	1053.075	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1
495	1051.120	1 pc.	3	1	1035.011	40 pc.	3	1	1053.065	20 pc.	3	1	1035.101	20 pc.	3	1	1035.111	20 pc.	3	1

● Please compare the required quantities with the packs of ordering codes.







PDS
UPGRADE THE POWER