

BC controller

CMB-P-V-E

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BC controller

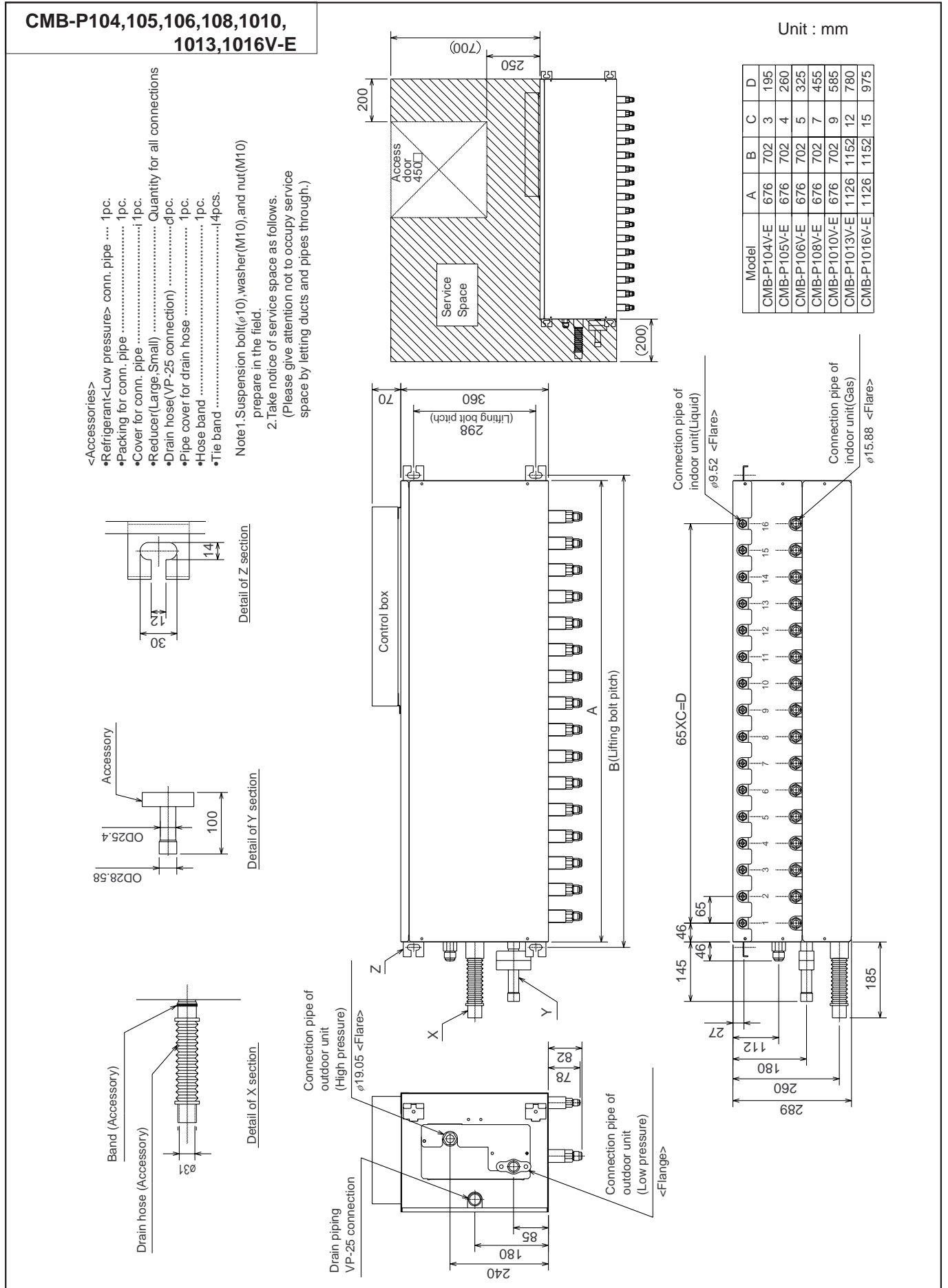
1. Specification

BC controller

Model name		CMB-P104V-E	CMB-P105V-E	CMB-P106V-E	CMB-P108V-E	CMB-P1010V-E	CMB-P1013V-E	CMB-P1016V-E	
Number of branch		4	5	6	8	10	13	16	
Power source		~ 220/230/240V 50Hz							
Power input	kW	0.068	0.083	0.098	0.128	0.158	0.203	0.248	
Current	A	0.31/0.30/0.29	0.38/0.36/0.35	0.45/0.43/0.41	0.58/0.56/0.54	0.72/0.69/0.66	0.93/0.89/0.85	1.13/1.08/1.04	
External finish		Galvanized steel plate (Lower part drain pan painting N1.5)							
Indoor unit capacity connectable to 1 branch		<p>Model 80 or smaller</p> <ul style="list-style-type: none"> •Use optional joint pipe combining 2-branch when the total unit capacity exceeds 81. •Use the reducer (standard accessory) when the indoor unit Model 40 or smaller is connected. 							
Height	mm	290							
Width	mm	360							
Depth	mm	676					1126		
Refrigerant piping diameter	To outdoor unit	High pressure pipe	φ19.05 Flare						
		Low pressure pipe	φ25.4 Flange φ28.58 Brazed						
	To indoor unit	Liquid pipe	φ9.52 Flare (φ6.35 with attached reducer used, φ12.7 with optional joint pipe used)						
		Gas pipe	φ15.88 Flare (φ12.7 with attached reducer used, φ19.05 with optional joint pipe used)						
Drain pipe		VP-20							
Net weight	kg	29	32	34	39	44	54	61	
Accessories		<ul style="list-style-type: none"> •Flange (with insulation) •Drain connection pipe (with flexible hose and insulation) •Reducer 							

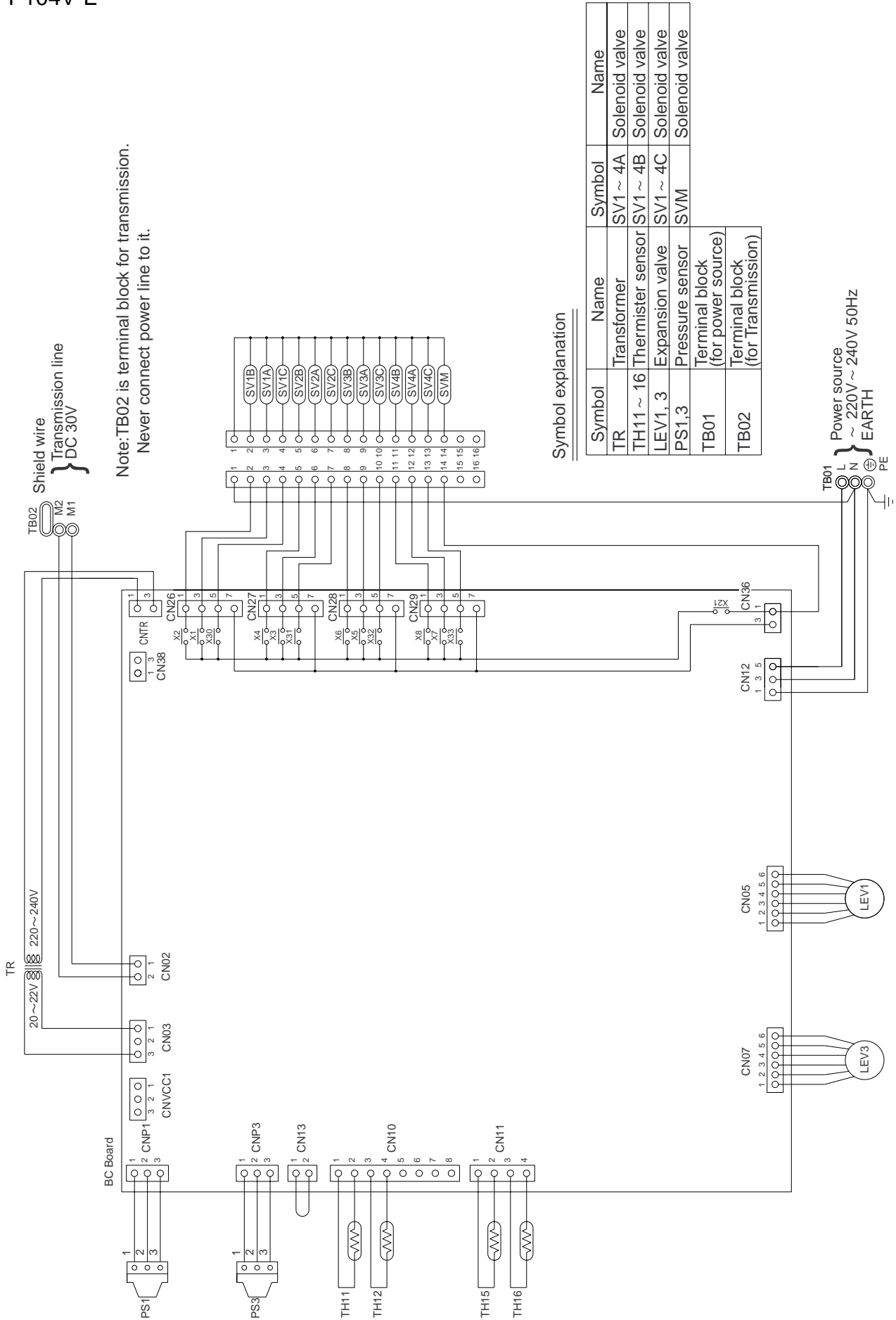
Note: 1.Works not included : Installation/foundation work, electrical connection work, duct work, insulation work, power source switch and other items not specified in this specification.

2. External dimensions



3. Wiring diagrams

CMB-P104V-E

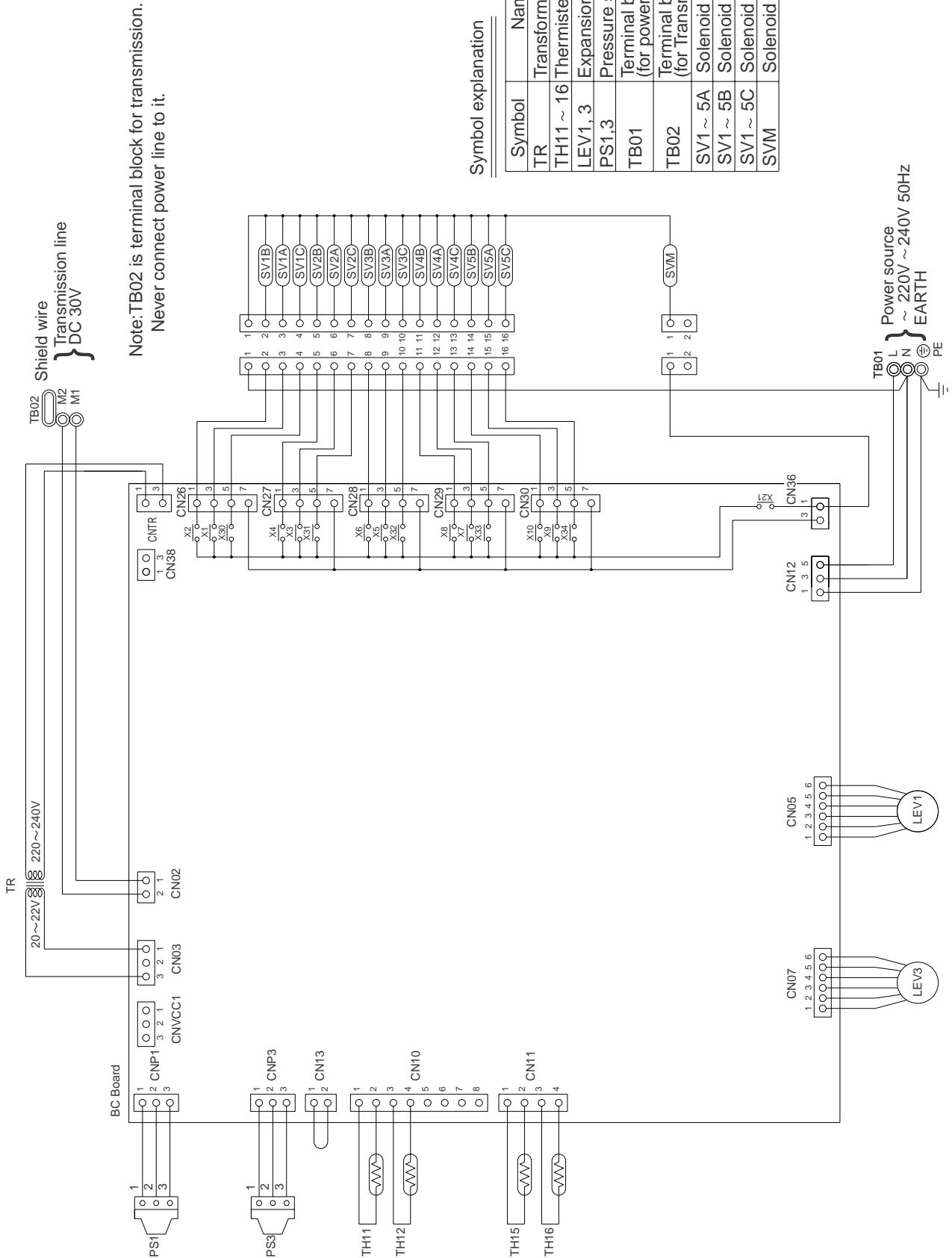


Note: TB02 is terminal block for transmission.
Never connect power line to it.

Symbol explanation

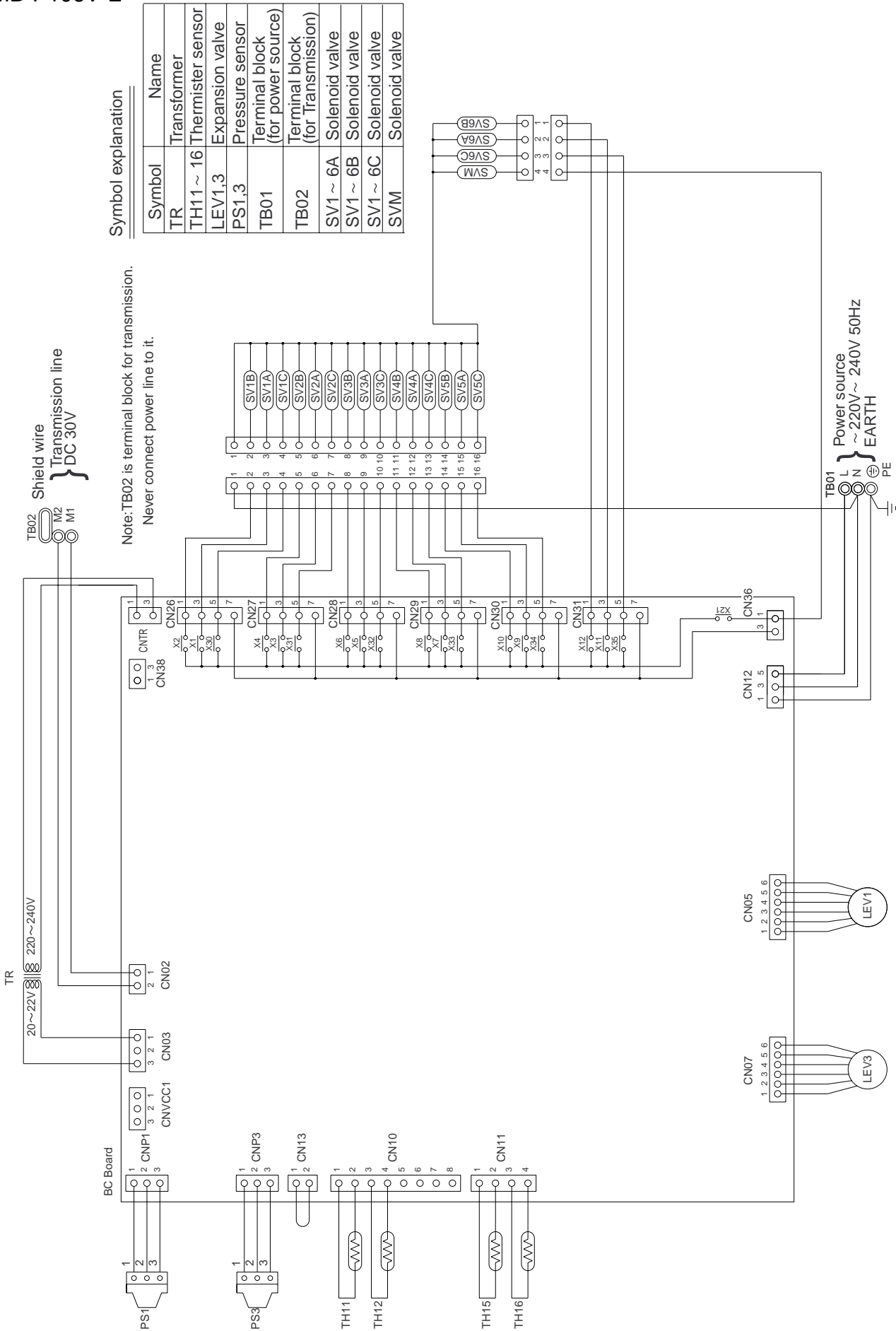
Symbol	Name	Symbol	Name
TR	Transformer	SV1 ~ 4A	Solenoid valve
TH11 ~ 16	Thermister sensor	SV1 ~ 4B	Solenoid valve
LEV1, 3	Expansion valve	SV1 ~ 4C	Solenoid valve
PS1, 3	Pressure sensor	SVM	Solenoid valve
TB01	Terminal block (for power source)		
TB02	Terminal block (for Transmission)		

CMB-P105V-E



Symbol explanation

Symbol	Name
TR	Transformer
TH11 ~ 16	Thermister sensor
LEV1, 3	Expansion valve
PS1,3	Pressure sensor
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1 ~ 5A	Solenoid valve
SV1 ~ 5B	Solenoid valve
SV1 ~ 5C	Solenoid valve
SVM	Solenoid valve



Symbol explanation

Symbol	Name
TR	Transformer
TH11 ~ 16	Thermister sensor
LEV1,3	Expansion valve
PS1,3	Pressure sensor
TB01	Terminal block (for power source)
TB02	Terminal block (for Transmission)
SV1 ~ 6A	Solenoid valve
SV1 ~ 6B	Solenoid valve
SV1 ~ 6C	Solenoid valve
SVM	Solenoid valve

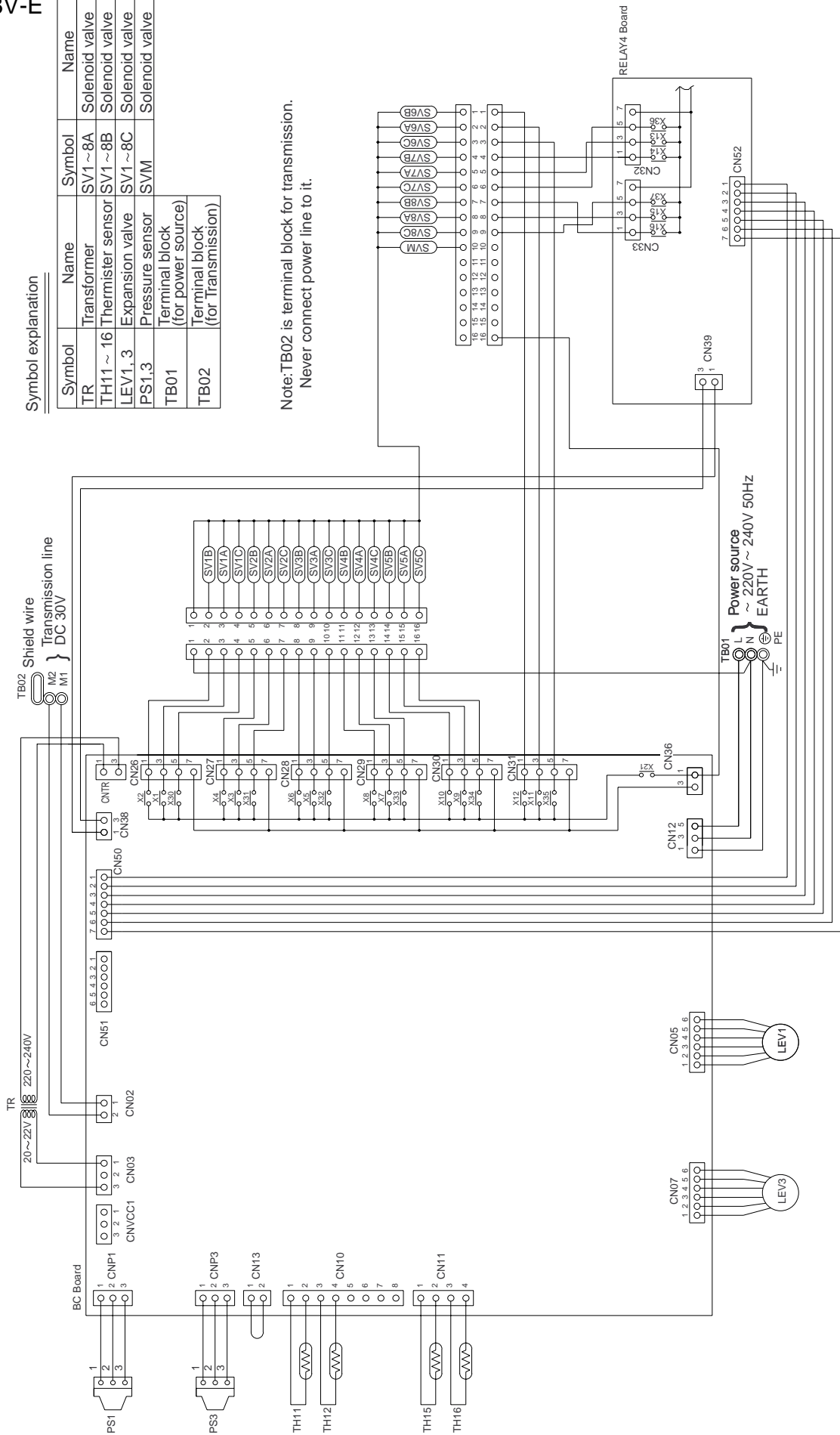
Note: TB02 is terminal block for transmission.
Never connect power line to it.

CMB-P108V-E

Symbol explanation

Symbol	Name	Symbol	Name
TR	Transformer	SV1 ~ 8A	Solenoid valve
TH11 ~ 16	Thermister sensor	SV1 ~ 8B	Solenoid valve
LEV1, 3	Expansion valve	SV1 ~ 8C	Solenoid valve
PS1, 3	Pressure sensor	SVM	Solenoid valve
TB01	Terminal block (for power source)		
TB02	Terminal block (for Transmission)		

Note: TB02 is terminal block for transmission.
Never connect power line to it.

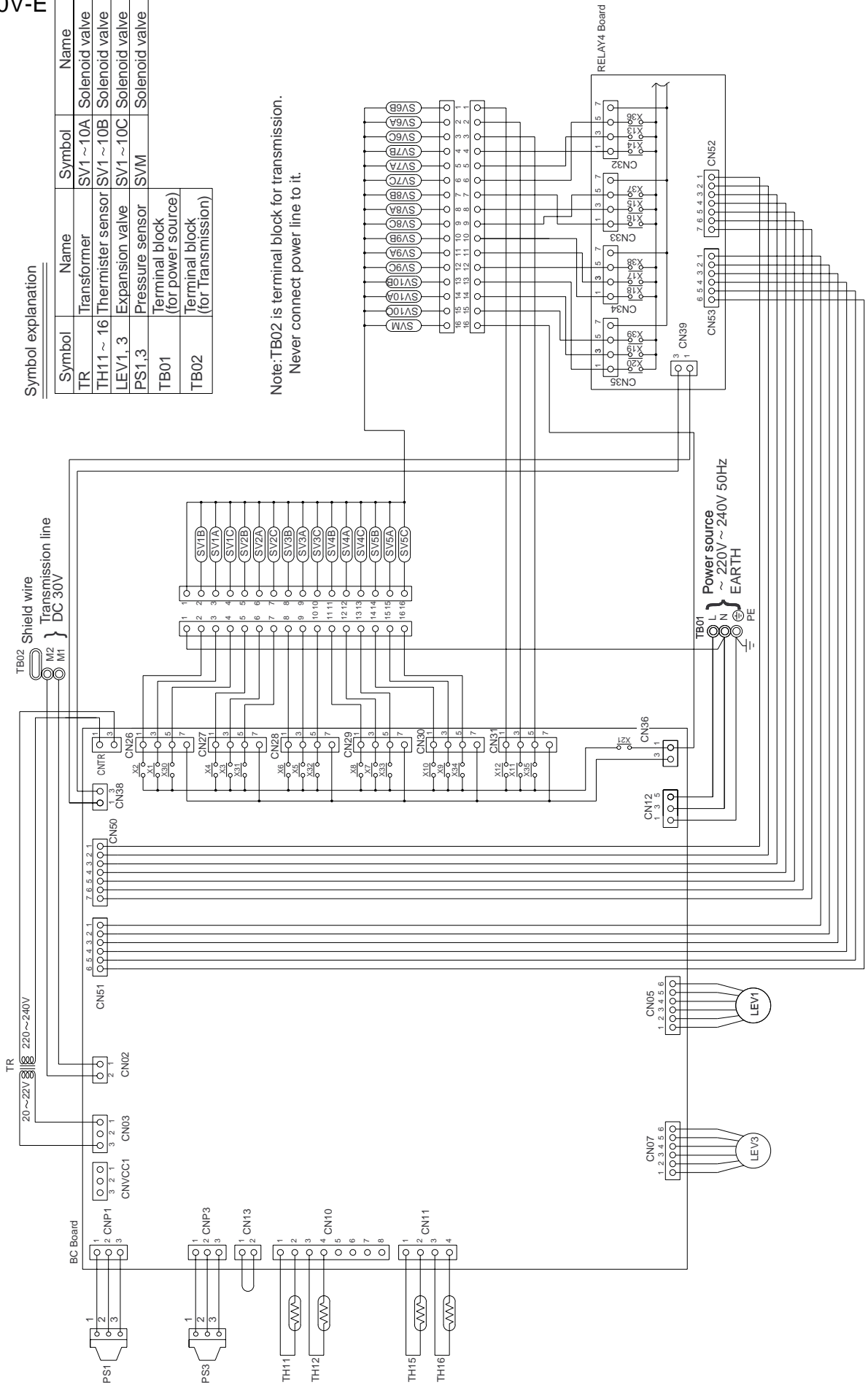


CMB-P1010V-E

Symbol explanation

Symbol	Name	Symbol	Name
TR	Transformer	SV1 ~ 10A	Solenoid valve
TH11 ~ 16	Thermister sensor	SV1 ~ 10B	Solenoid valve
LEV1, 3	Expansion valve	SV1 ~ 10C	Solenoid valve
PS1, 3	Pressure sensor	SVM	Solenoid valve
TB01	Terminal block (for power source)		
TB02	Terminal block (for transmission)		

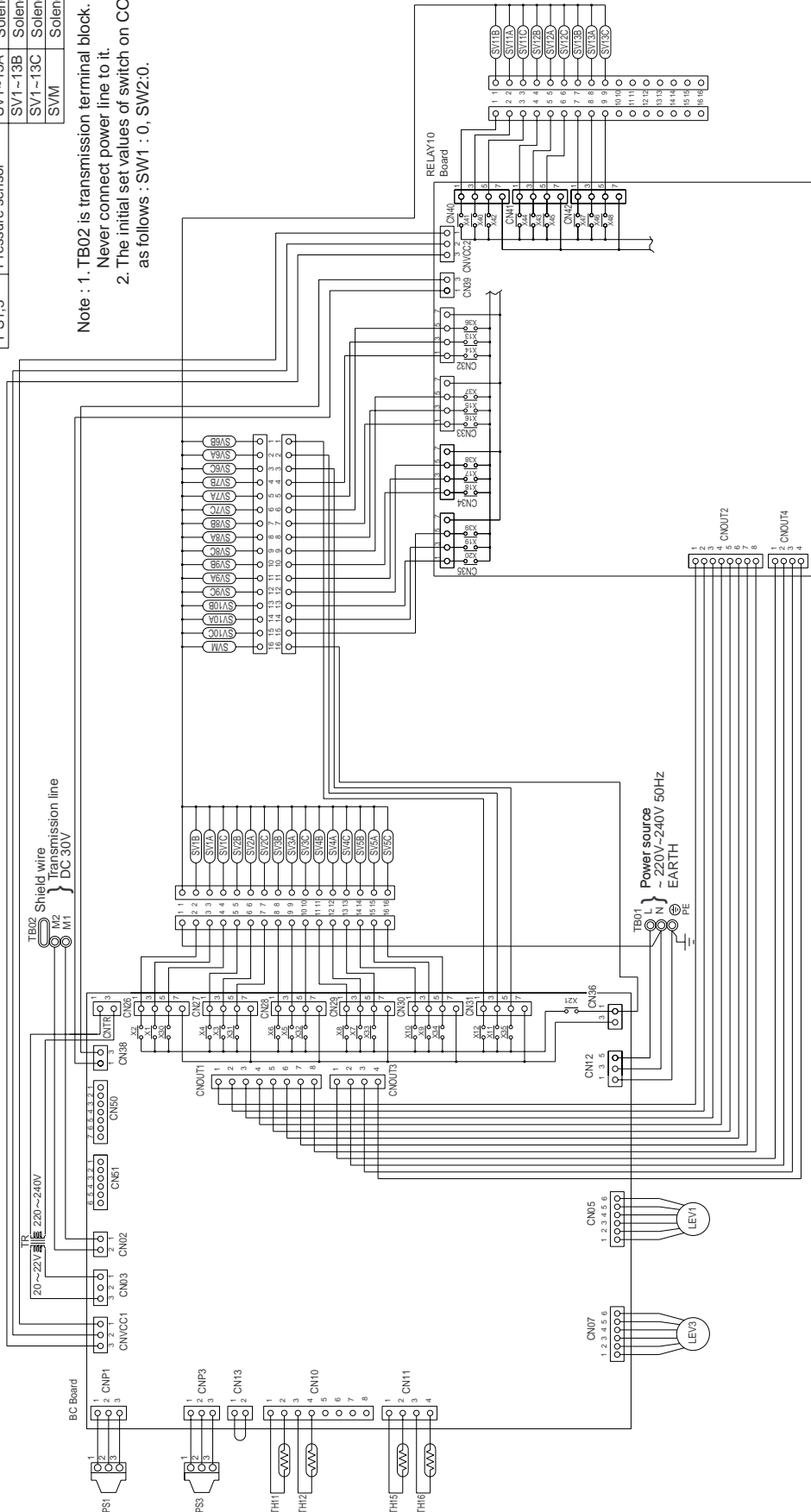
Note: TB02 is terminal block for transmission.
Never connect power line to it.



CMB-P1013V-E

Symbol	Name	Symbol	Name
TR	Transformer	TB01	Terminal block (for power source)
TH11~16	Thermister sensor	TB02	Terminal block (for Transmission)
LEV1,3	Expansion valve	SV1~13A	Solenoid valve
PS1,3	Pressure sensor	SV1~13B	Solenoid valve
		SV1~13C	Solenoid valve
		SVM	Solenoid valve

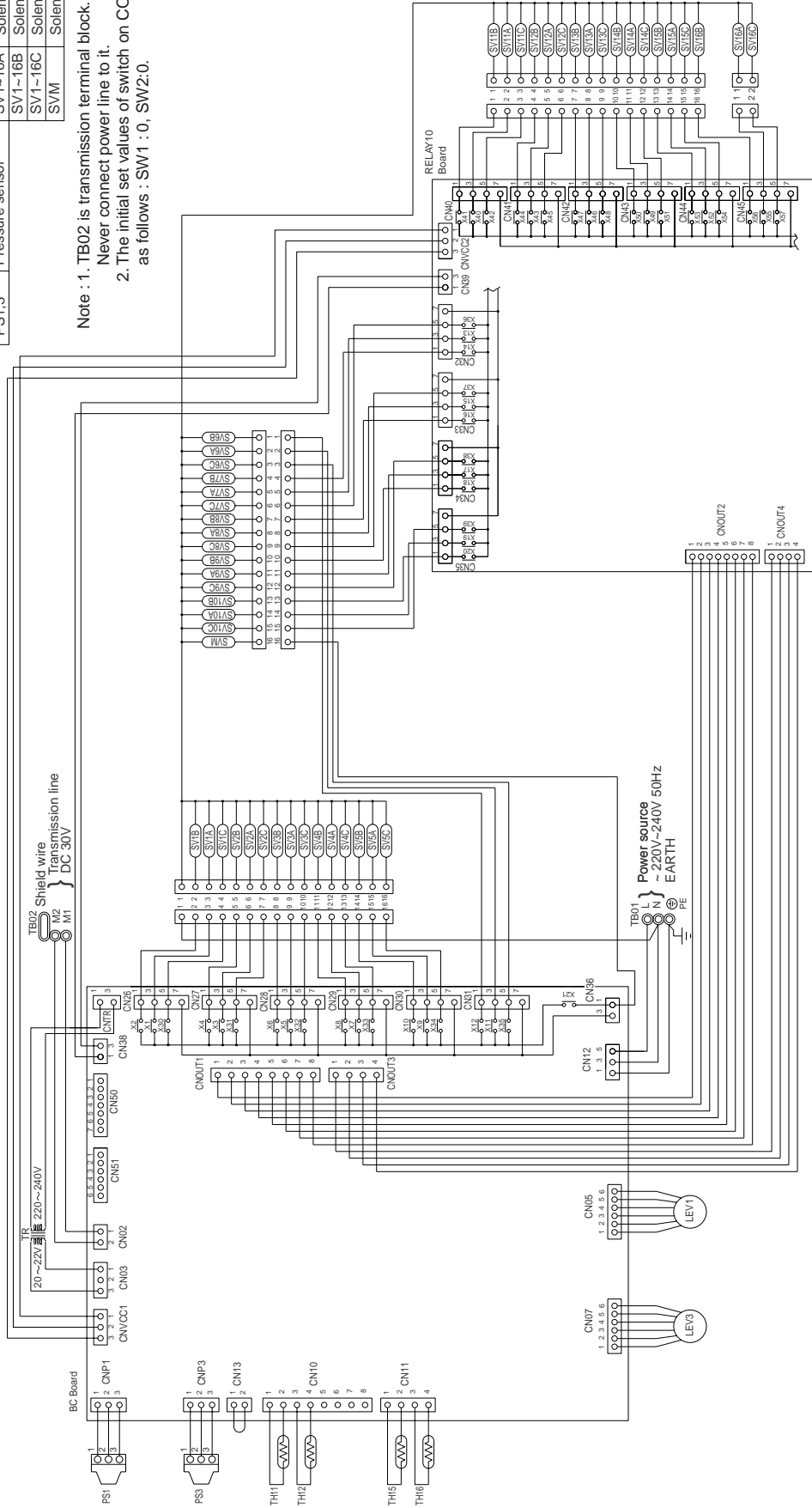
Note : 1. TB02 is transmission terminal block.
 Never connect power line to it.
 2. The initial set values of switch on CONTB are as follows : SW1 : 0, SW2:0.



CMB-P1016V-E

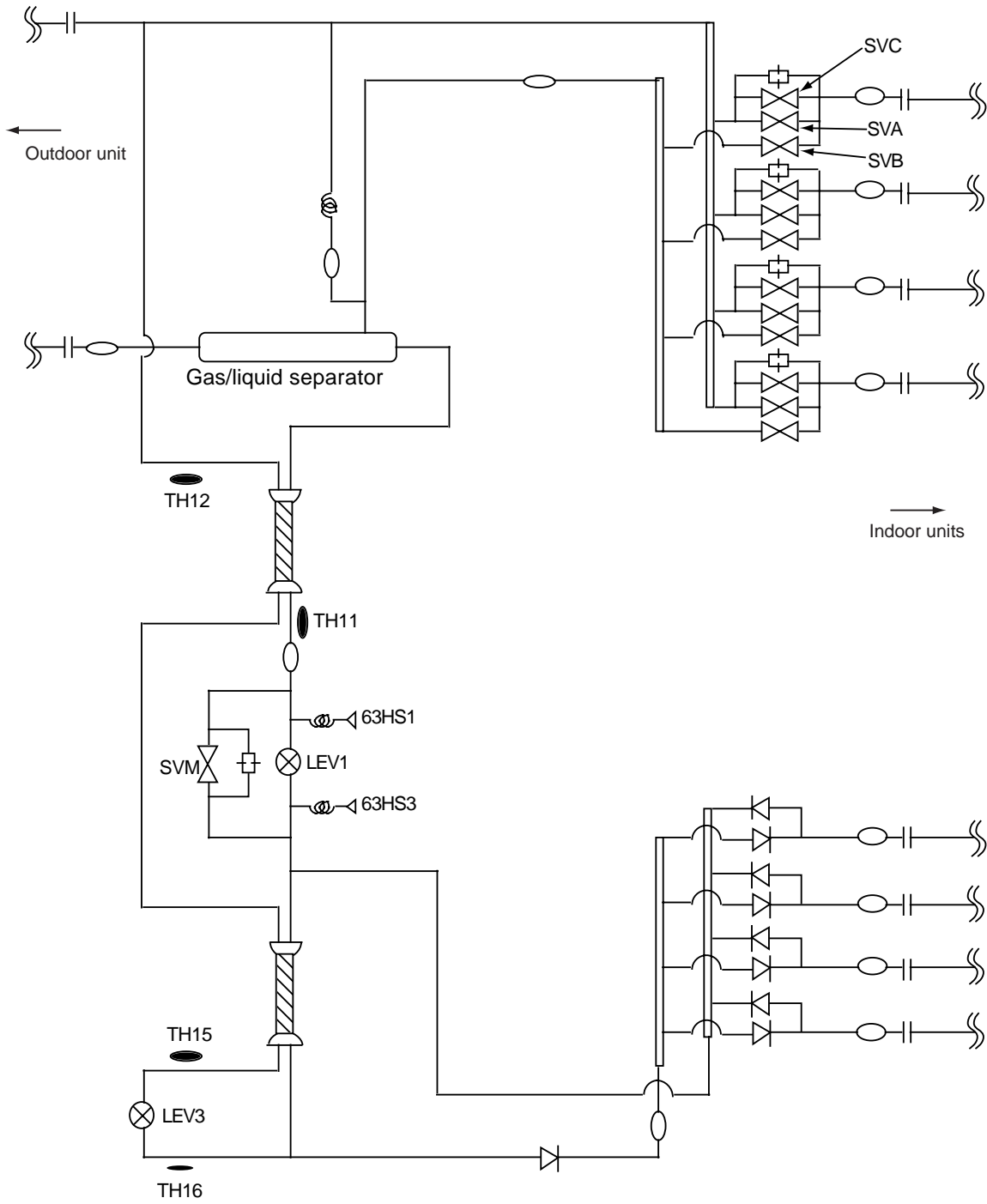
Symbol	Name	Symbol	Name
TR	Transformer	TB01	Terminal block (for power source)
TH11~16	Thermister sensor	TB02	Terminal block (for Transmission)
LEV1,3	Expansion valve	SV1~16A	Solenoid valve
PS1,3	Pressure sensor	SV1~16B	Solenoid valve
		SV1~16C	Solenoid valve
		SVM	Solenoid valve

Note : 1. TB02 is transmission terminal block.
 Never connect power line to it.
 2. The initial set values of switch on CONT.B are as follows : SW1 : 0, SW2:0.



4. Refrigerant Circuit

CMB-P104V-E



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