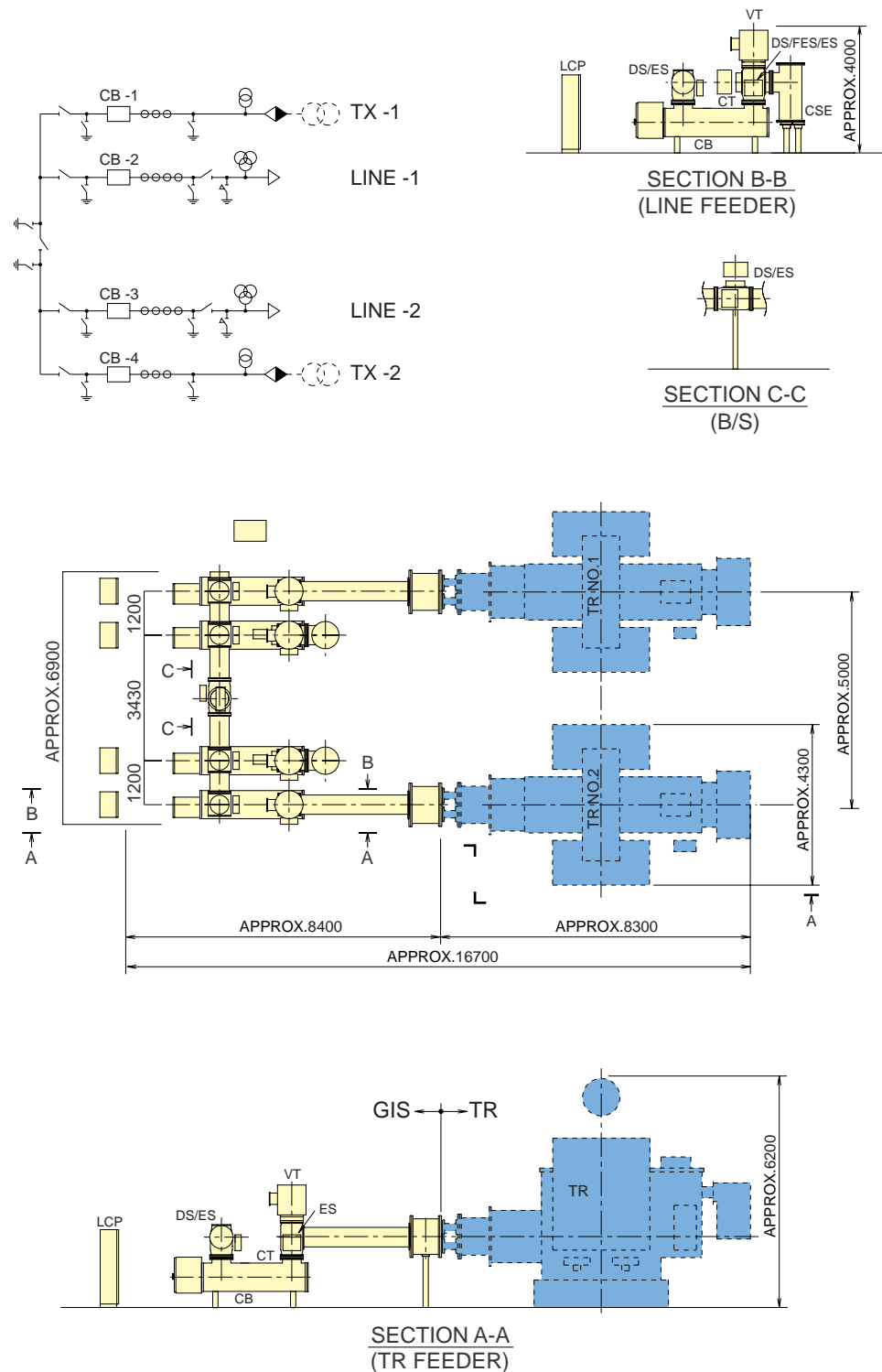


TYPICAL LAYOUT

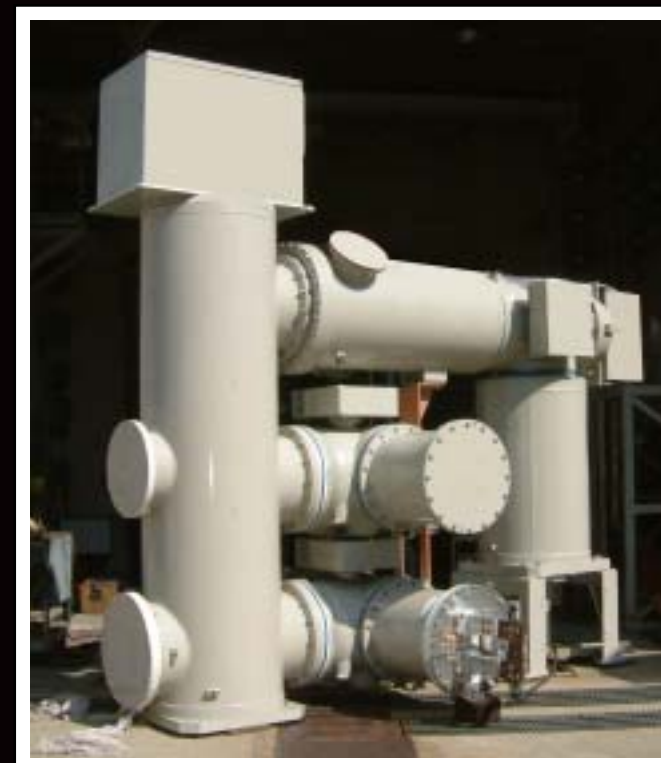
[TR Connection Scheme]



MITSUBISHI ELECTRIC CORPORATION
 HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN



**THREE-PHASE-ENCLOSURE
 SF₆-GAS-INSULATED SUBSTATIONS (GIS)
 72.5~145kV**



Improper use of products can cause severe injury or death, and may result in damage to product and other property.
 Please read instruction manual before installing or using product.

ADVANTAGES

With the application of MITSUBISHI GIS, you gain,

World class high performance equipment

- The GIS is fully assembled and tested in the factory.
- Minimum shipping split is provided thanks to the compactness of the equipment.

Low construction cost

- Minimum land space
- Minimum civil work
- Minimum construction period

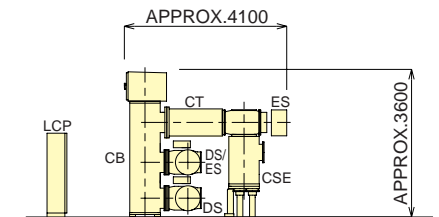
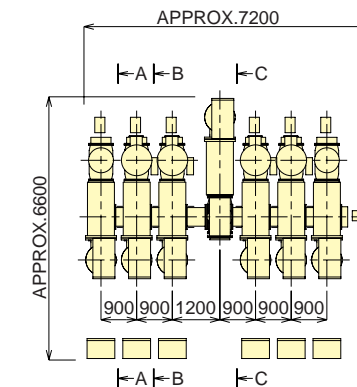
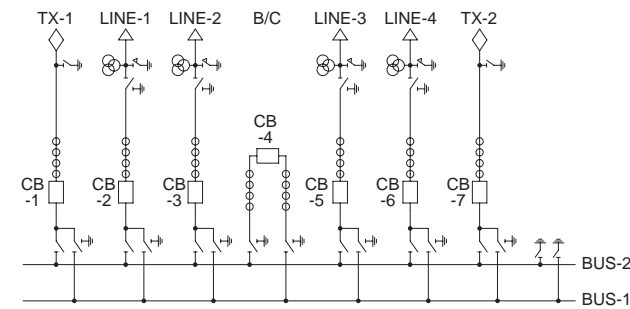
Easy maintenance

- Virtually maintenance free - no routine maintenance needed

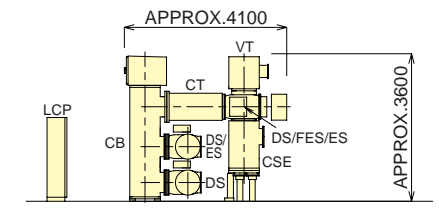
TYPICAL LAYOUT

[Double-Busbar Scheme]

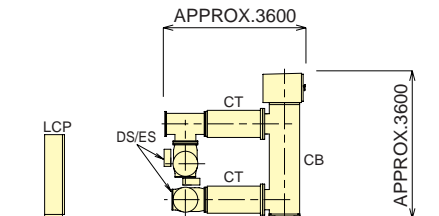
[Sample-B (One side CT)]



SECTION A-A
(TR FEEDER)

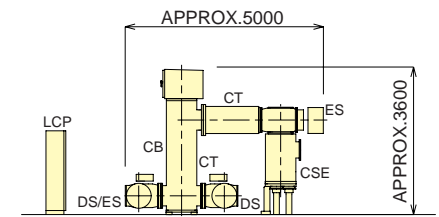
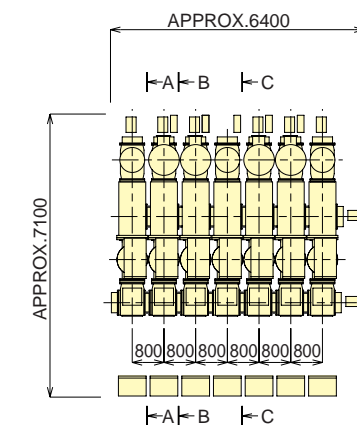
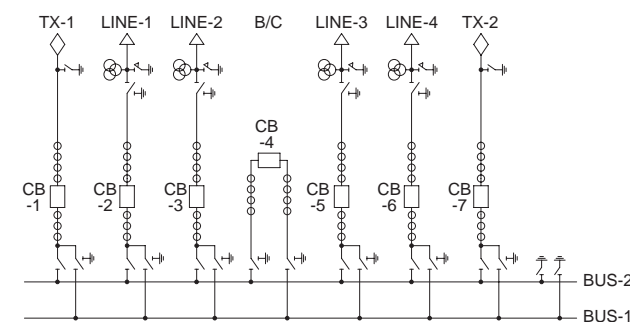


SECTION B-B
(LINE FEEDER)

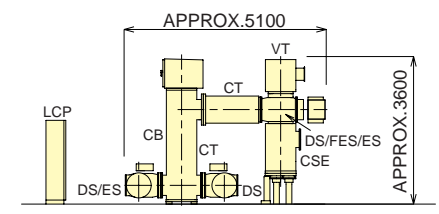


SECTION C-C
(B/C)

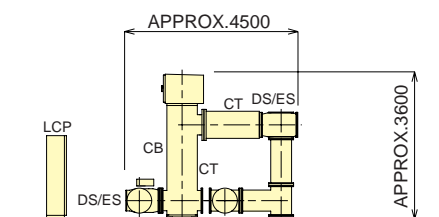
[Sample-C (Both sides CT's)]



SECTION A-A
(TR FEEDER)



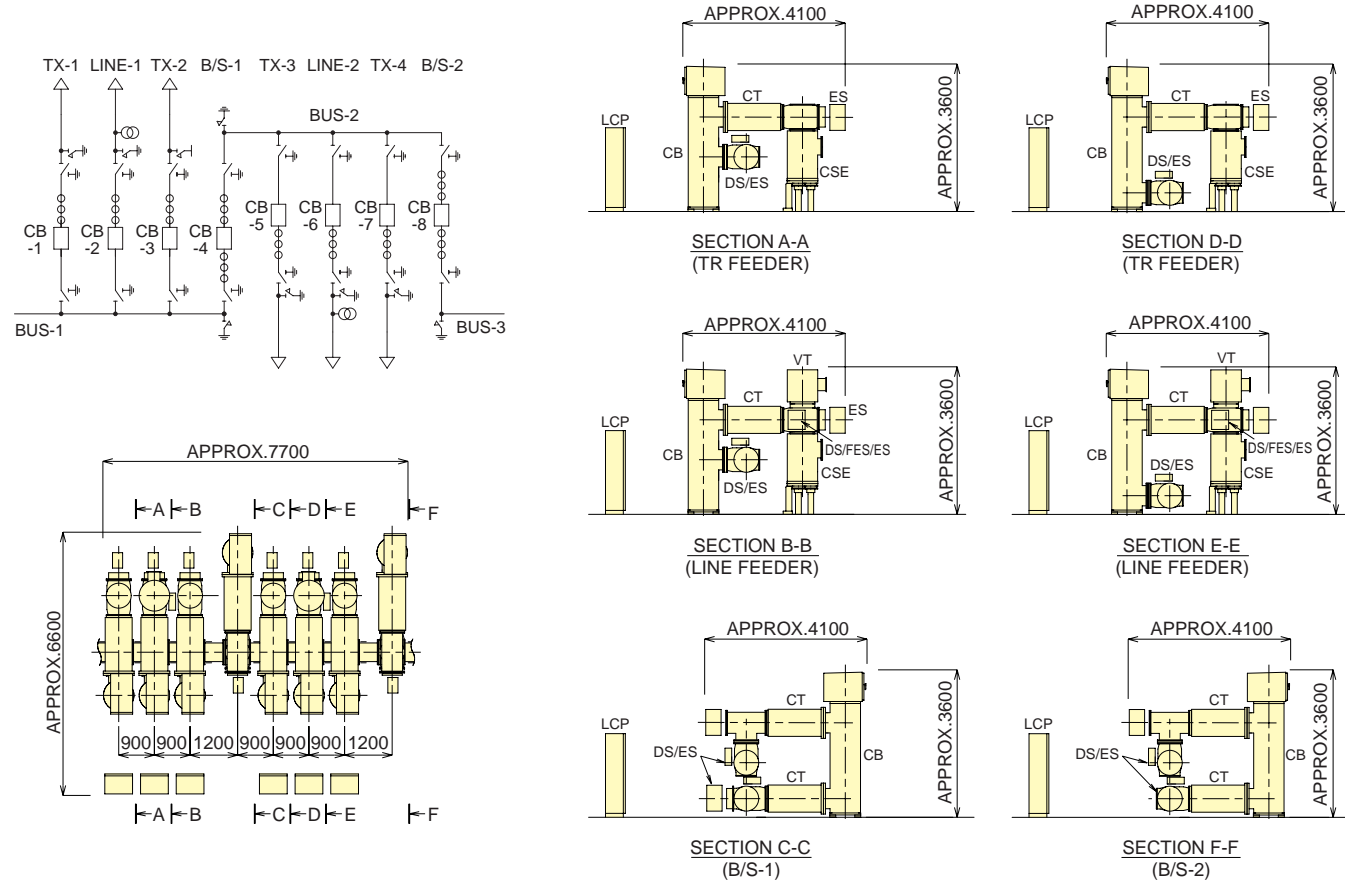
SECTION B-B
(LINE FEEDER)



SECTION C-C
(B/C)

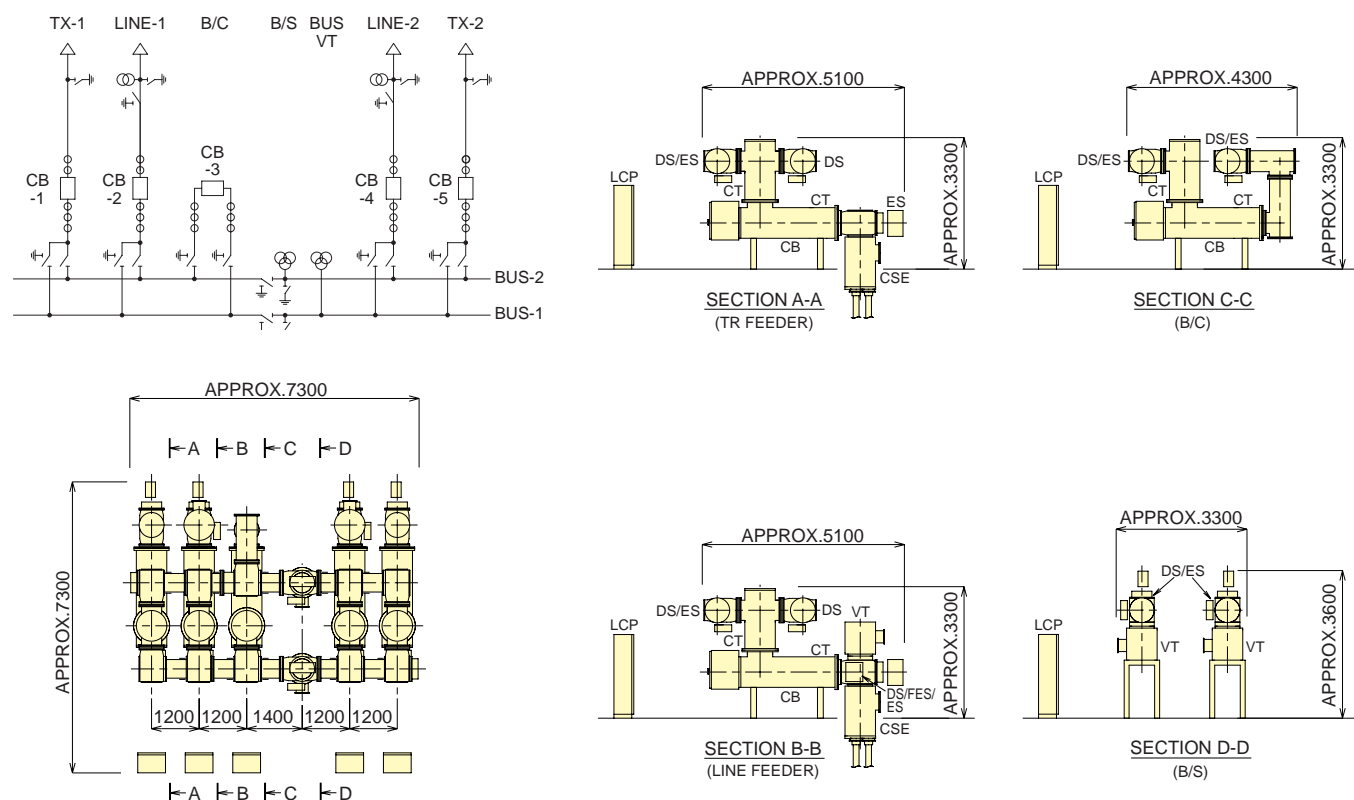
TYPICAL LAYOUT

[Single-Busbar Scheme]



[Double-Busbar Scheme]

[Sample-A (Both sides CT's)]



RATINGS

TYPE GMKD · GIS

Ratings (Based on IEC 62271-203)

Rated voltage	(kV)	72.5	100	123	145
Rated current	(A)	1000/1250/1600/2000/2500/3150			
Rated short-time withstand current	(kA)	20/25/31.5/40			
Rated insulation level	Rated short-duration power-frequency withstand voltage (kV)	140	185	230	275
	Rated lightning impulse withstand voltage (kV, peak)	325	450	550	650
Rated gas pressure (MPa · at 20 °C)		0.5			
Circuit breaker	Rated Interrupting current (kA)	20/25/31.5/40			
	Rated Interrupting time (Cycle)	3			
	Operating mechanism	Spring			
Disconnecter	Operating mechanism	Motor			
Earthing switch	Operating mechanism	Manual/Spring			
Surge arrester	Rated voltage (1) (kV)	60/72	84/102	96/120	120/144
	Rated discharge current (kA)	10			
Voltage (potential) transformer	Primary/secondary/tertiary voltage (kV/V/V)	$\frac{66}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{3}$	$\frac{88}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{3}$	$\frac{110}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{3}$	$\frac{132}{\sqrt{3}} / \frac{110}{\sqrt{3}} / \frac{110}{3}$
	Secondary/tertiary output (per phase) (VA/VA)	100/100			
	Accuracy class	1.0/3P			
Current transformer	Type	Bushing (Ring core) type			
	Rated current (A)	Primary current : according to specifications Secondary current : 1A, 5A			
	Rated burden (VA)	15, 20, 30			

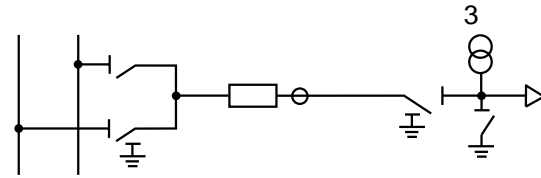
Notes :

1. The surge arrester rated voltage should be determined in accordance with the neutral grounding condition (effectively or non-effectively grounded).

SWITCHGEAR CROSS SECTION

[Typical Section for One Side CT]

Single line diagram

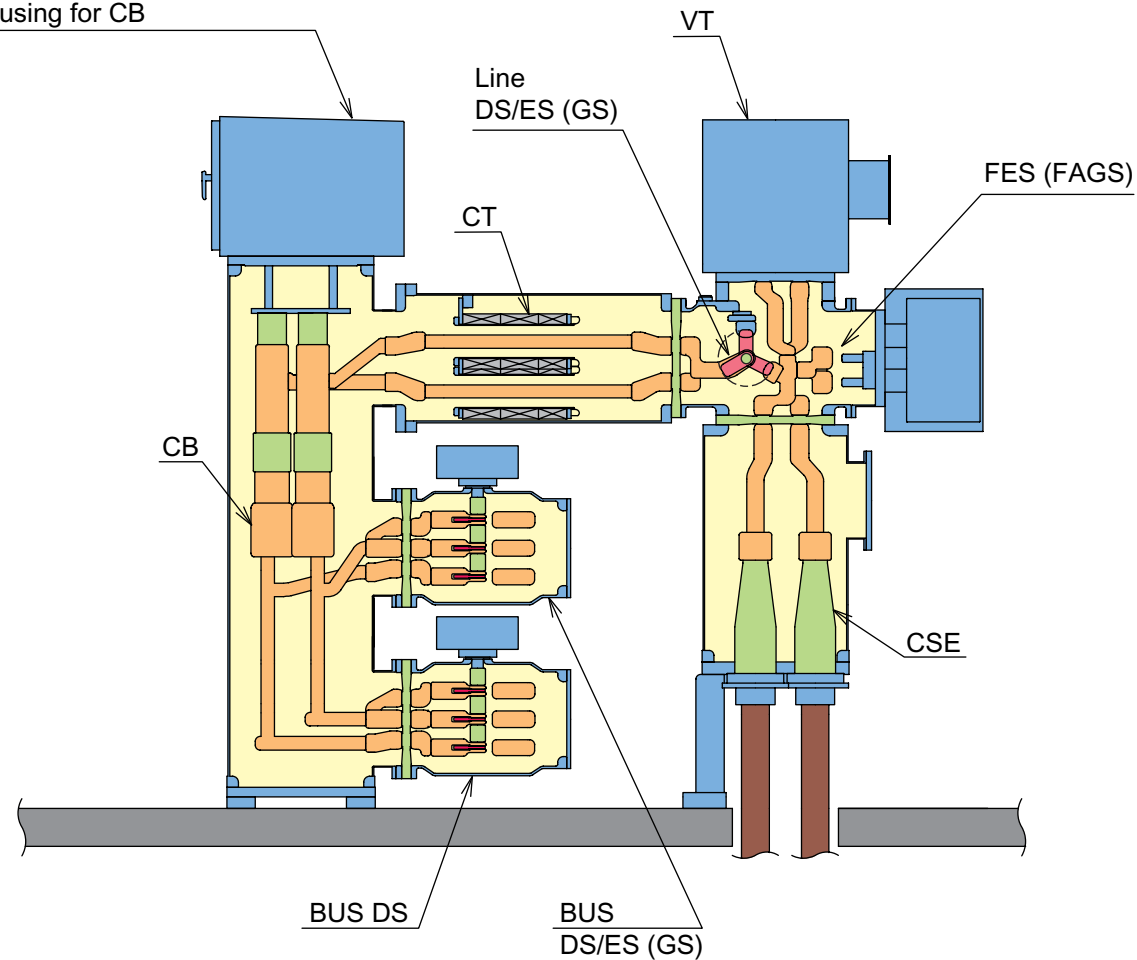


- Live parts
- Insulators
- SF₆ gas
- Enclosures

Key

- CB : Circuit Breaker
- DS : Disconnector
- ES : Earthing Switch
- (GS : Grounding Switch)
- FES : Fault making Earthing Switch
- (FAGS : Fast Acting Grounding Switch)
- CT : Current Transformer
- VT : Voltage Transformer
- CSE : Cable Sealing End
- BUS : Busbar

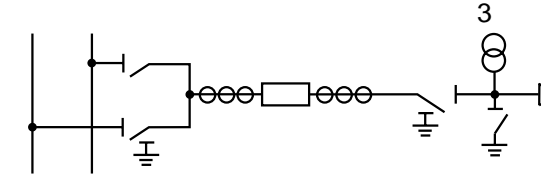
Spring operating mechanism housing for CB



SWITCHGEAR CROSS SECTION

[Typical Section for Both Sides CT's]

Single line diagram



- Live parts
- Insulators
- SF₆ gas
- Enclosures

Key

- CB : Circuit Breaker
- DS : Disconnector
- ES : Earthing Switch
- (GS : Grounding Switch)
- FES : Fault making Earthing Switch
- (FAGS : Fast Acting Grounding Switch)
- CT : Current Transformer
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