



Beyond X™

UL / ANSI MV MCSG
Medium Voltage Metal Clad Switchgear



LS ELECTRIC

Features

LS UL/ANSI medium-voltage metal-clad switchgear is compliant with IEEE standards.

Our Solution Power platform, available in 5, 15, 27, and 38 kV ratings, offers high interrupting capacity and continuous current.

The MCSG (metal-clad switchgear) series features a two-high configuration with both compact and standard widths to meet various installation requirements of the end user.





Solution Power

UL/ANSI Medium Voltage Metal-Clad Switchgear

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Portfolio overview

Non-Arc-Resistant Metal-Clad Switchgear

S5/15 UL NAR

S27 UL NAR



Type		Compact (W26")	Standard (W36")	Standard (W36")	
Rated voltage	[kV]	4.76/15	4.76/15	27	
Rated continuous current	[A]	1200/2000	1200/2000/3000/4000 *	1200/2000/2500/2750 *	
Rated short-time current (rms)	[kA]	25/31.5/40/50	25/31.5/40/50	25/31.5/40	
Power frequency withstand voltage (60Hz, 1min)	[kV]	19/36	19/36	60	
Lightning impulse withstand voltage (1.2×50μs)	[kV]	60/95	60/95	125	
Arc resistance performance	[kA / sec]	-	-	-	
Stack		1-High (Mid VCB) 2-High 2-High + Mid LV Comp.	1-High (Mid VCB) 2-High 2-High + Mid LV Comp.	2-High 2-High + Mid LV Comp.	
Seismic certified		IEEE 693 (up to 2.5g), ICC-ES AC 156 (up to 2.0g), HCAI			
Enclosure type		NEMA Type 1 and 3R			
Accessories and Software		Ground and Test Device, Motorized Control Racking System[MCRS] (Internal/External), VCB Lifter, Test Cabinet, Extension Rail / LS Pre-Engineering[LSPE] Software available			
Applicable standards		IEEE C37.20.2 ANSI C37.55	IEEE C37.20.2 ANSI C37.55	IEEE C37.20.2 ANSI C37.55	

* 4.76/15kV 4000A and 27kV 2750A are available in 1-VCB(Lower CB) configuration only.

	Non-Arc-Resistant Metal-Clad Switchgear	Arc-Resistant Metal-Clad Switchgear	
	S38 ANSI NAR	S5/15 ULAR	S38 ANSI AR



	Standard (W42")	Compact (W23.6"/W29.5")	Standard (W42")
	38	4.76/15	38
	1200/2000	1200/2000	1200/2000
	31.5/40	25/31.5	31.5/40
	80	19/36	80
	150	60/95	150
	-	31.5 / 0.5	40 / 0.5
	1-High	1-High (Mid VCB) 2-High + Mid LV Comp.	1-High
IEEE 693 (up to 2.5g), ICC-ES AC 156 (up to 2.0g), HCAI			
	NEMA Type 1 and 3R	NEMA Type 1	NEMA Type 1 and 3R
Ground and Test Device, Motorized Control Racking System[MCRS] (Internal/External), VCB Lifter, Test Cabinet, Extension Rail / LS Pre-Engineering[LSPE] Software available			
	IEEE C37.20.2 ANSI C37.55	IEEE C37.20.2 IEEE C37.20.7 ANSI C37.55	IEEE C37.20.2 IEEE C37.20.7 ANSI C37.55

Key features



Efficiency & Cost-savings

MCSG offers both compact and standard widths to meet user application requirements. The compact design enables efficient use of the available space, as seen below.



Key features

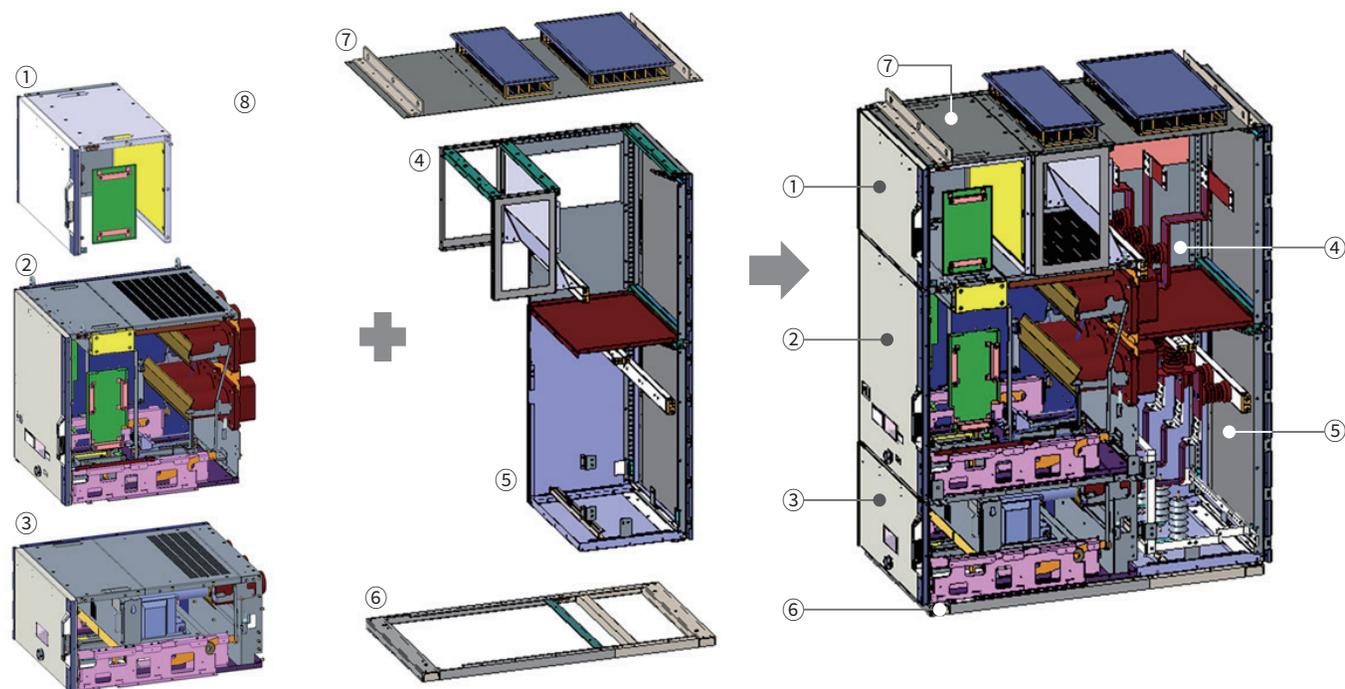


Modular structure

LS MCSG shall be modular and stackable, allowing for quick assembly.

- Module assembly structure
- Various types available to meet customer needs
- Interchangeable VCB and PT compartment

1-High (Mid VCB)



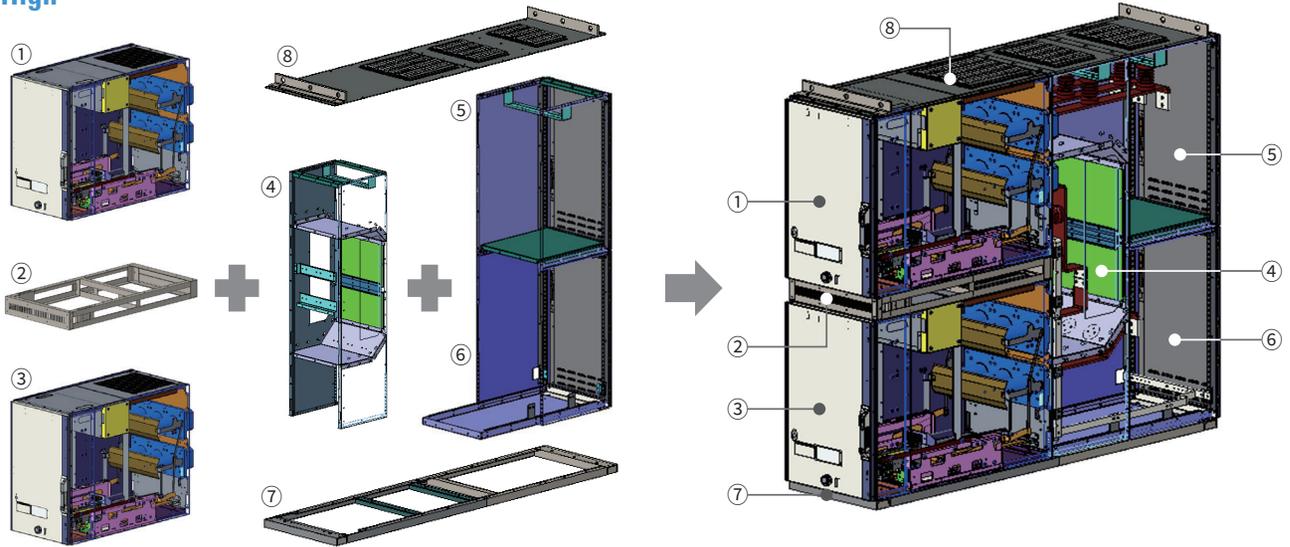
① LV Compartment
⑤ Cable Compartment

② VCB Compartment
⑥ Channel Base

③ PT Compartment
⑦ Top Cover

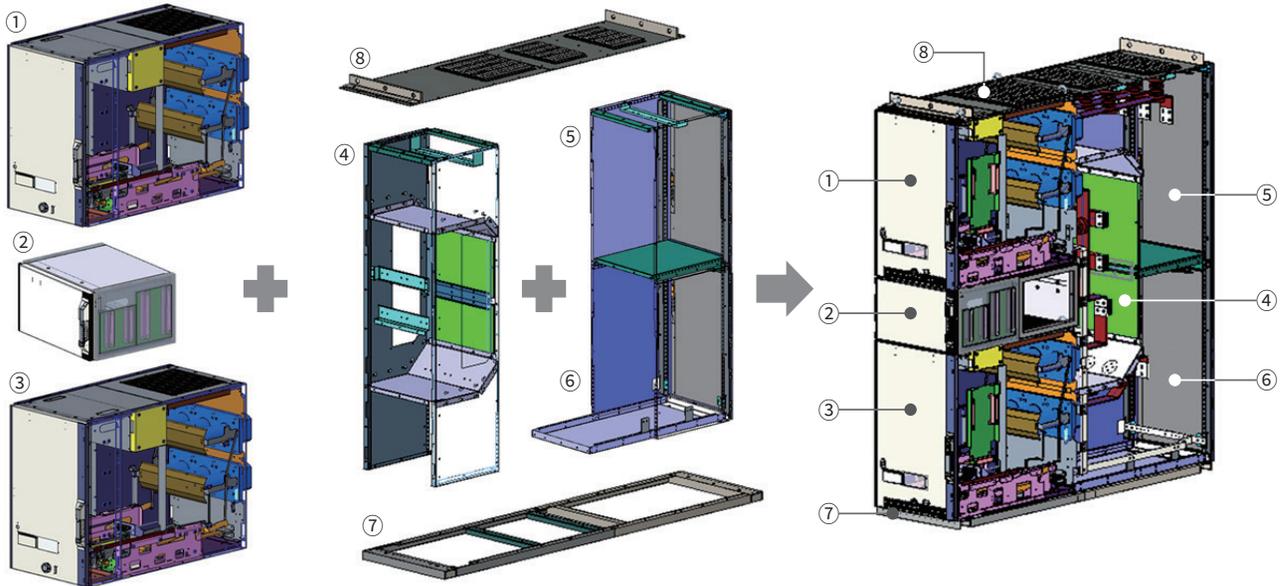
④ BUS Compartment

2-High



- ① VCB #1 Compartment ② Vent Frame ③ VCB #2 Compartment ④ BUS Compartment
- ⑤ Cable #1 Compartment ⑥ Cable #2 Compartment ⑦ Channel Base ⑧ Top Cover

2-High + Mid LV Comp.



- ① VCB #1 Compartment ② LV Compartment ③ VCB #2 Compartment ④ BUS Compartment
- ⑤ Cable #1 Compartment ⑥ Cable #2 Compartment ⑦ Channel Base ⑧ Top Cover

Key features

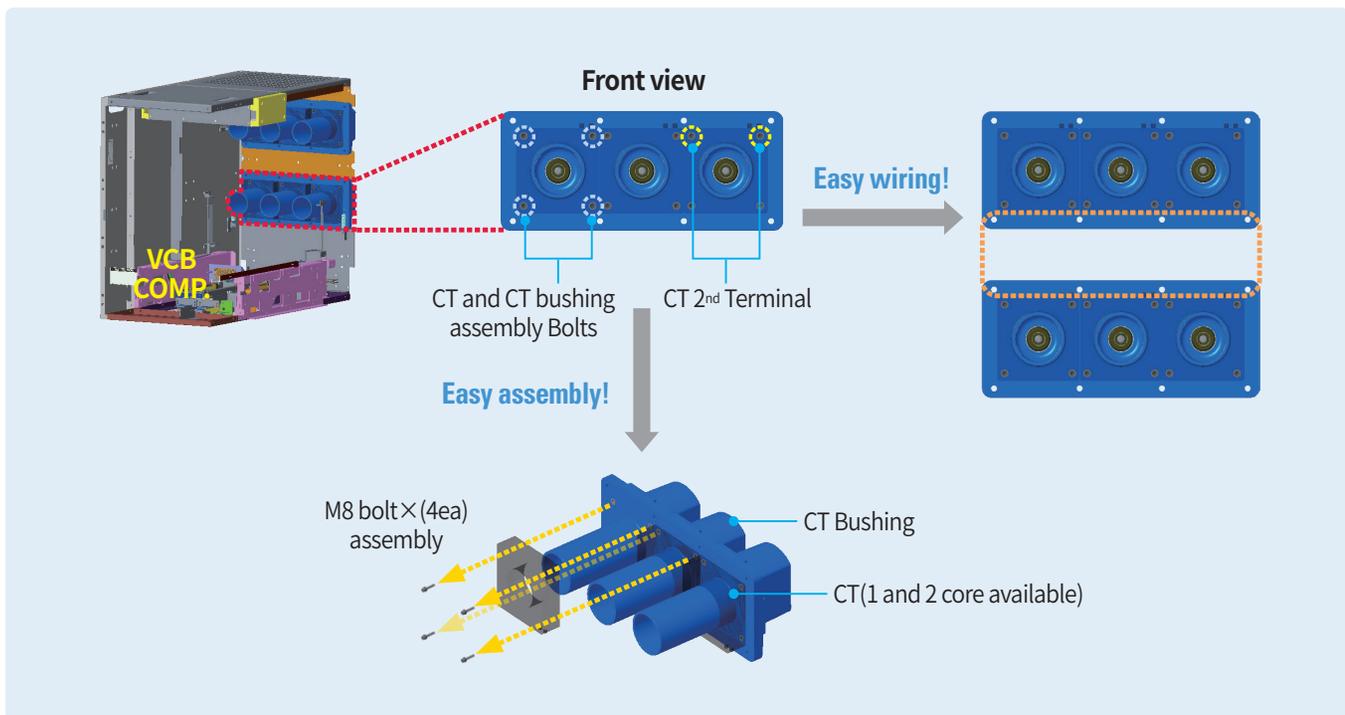


Time saving design for maintenance and inspection

Front-accessible CT structure

Cable connections and current transformers are easily accessible from the front of the MCSG. This design feature ensures ease of maintenance, minimizes floor space usage, and provides a safe working environment.

* For 5/15kV, 4000A CT, the structure is not front-accessible. It is assembled in the cable compartment.



Front and rear viewing windows

Viewing windows are installed on the front and rear doors, allowing operators to inspect the internal components of the MCSG without opening the doors.

Infrared (IR) viewing ports (optional)

Rear infrared viewing ports allow maintenance personnel to perform thermal inspections without opening the enclosure. IR technology ensures operator safety while inspecting the internal components of the MCSG for potential overheating.

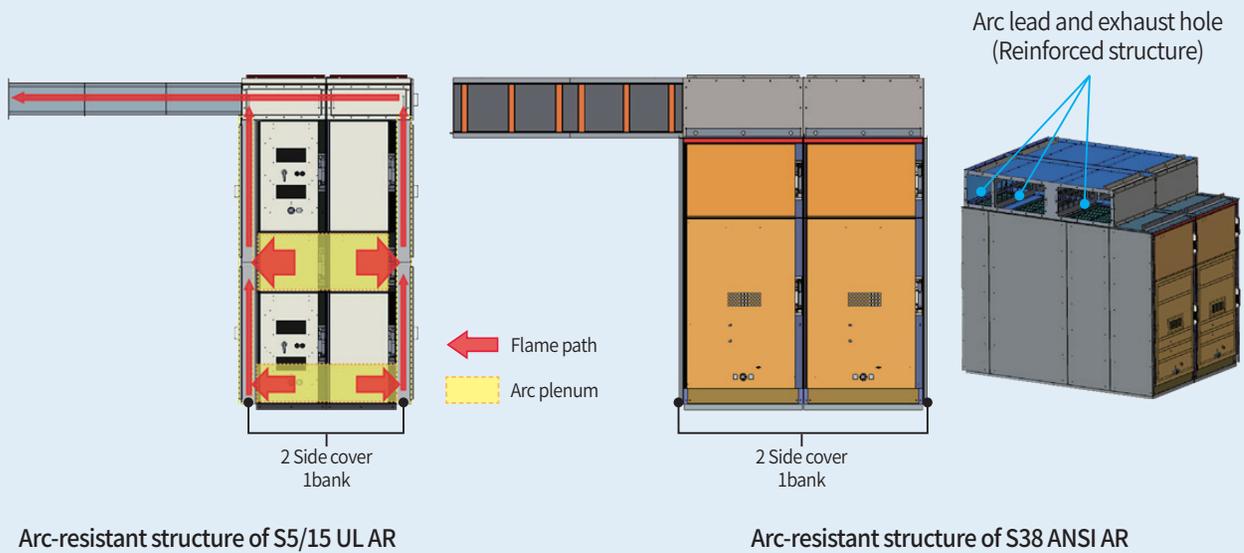


Safety

Arc-resistant design (for AR type MCSG)

The LS MCSG is designed to redirect arc energy and protect peripheral devices in the event of an internal arc. The plenum design redirects arc flash energy away from operating personnel, ensuring safety.

- Uses arc-lead plenums and side covers for arc ventilation
- Optimized flap positions for efficient arc release
- Top guidance and exhaust for controlled arc pressure and heat release



Applications

Building



- Commercial buildings
- Critical power (Data center)

Industry



- Oil and Gas industry
- Petroleum industry
- Chemical industry
- Iron and Steel industry
- Automobile industry
- Cement industry
- Mining industry
- Manufacturing industry

Utility/Public



- Power plants
- Transforming/switching substations

SK Battery America PJT Phase 1, 2

Project description	Battery manufacturing plant
Location	Jackson County, Georgia
Project owner	SK Innovation
EPC contractor	SK E&C
Delivery	2020, 2021
Supply scope	MV/LV SWGR, MCC, Panel board, Transformer, Busduct

Hyundai Transys GA PJT

Project description	Manufacturing plant
Location	Westpoint, Georgia
Project owner	Hyundai Transys Georgia Powertrain
EPC contractor	Hyundai Engineering America
Delivery	2021
Supply scope	MV/LV SWGR, MCC, Panel board

BlueOval SK Kentucky PJT

Project description	Battery manufacturing plant
Location	Glendale, Kentucky
Project owner	BlueOval SK (Ford – SK Innovation JV)
EPC contractor	-
Delivery	2023
Supply scope	Unit S/S, MV/LV SWGR, Transformer

Hyundai Mobis PJT

Project description	EV power electric system plant
Location	Savannah, Georgia
Project owner	Hyundai Mobis
EPC contractor	Hyundai Engineering America
Delivery	2023
Supply scope	MV SWGR, LV SWBD, TR Panel

Hyundai Glovis, Steel, Transys PJT (HMGMA)

Project description	Manufacturing plant
Location	Savannah, Georgia
Project owner	Hyundai Glovis, Steel, Transys
EPC contractor	Hyundai Engineering America
Delivery	2024
Supply scope	MV SWGR, LV SWBD, TR Panel

Ultium Cells OH PJT

Project description	Battery manufacturing plant
Location	Lordstown, Ohio
Project owner	Ultium Cells LLC (LG Energy Solutions - General Motors JV)
EPC contractor	HUNT ELECTRIC CORPORATION
Delivery	2021
Supply scope	Unit S/S, MV/LV SWGR, MCC, Panel board, Transformer

Absolics SVM PJT

Project description	Semiconductor glass substrate plant
Location	Covington, Georgia
Project owner	Absolics
EPC contractor	SK Ecoengineering
Delivery	2023
Supply scope	MV SWGR, LV SWBD, MCC, Transformer, Busduct

Hyundai Motor Group Metaplant America PJT

Project description	EV center
Location	Savannah, Georgia
Project owner	Hyundai Motors
EPC contractor	Hyundai Engineering America
Delivery	2023
Supply scope	MV SWGR, LV SWBD, TR Panel

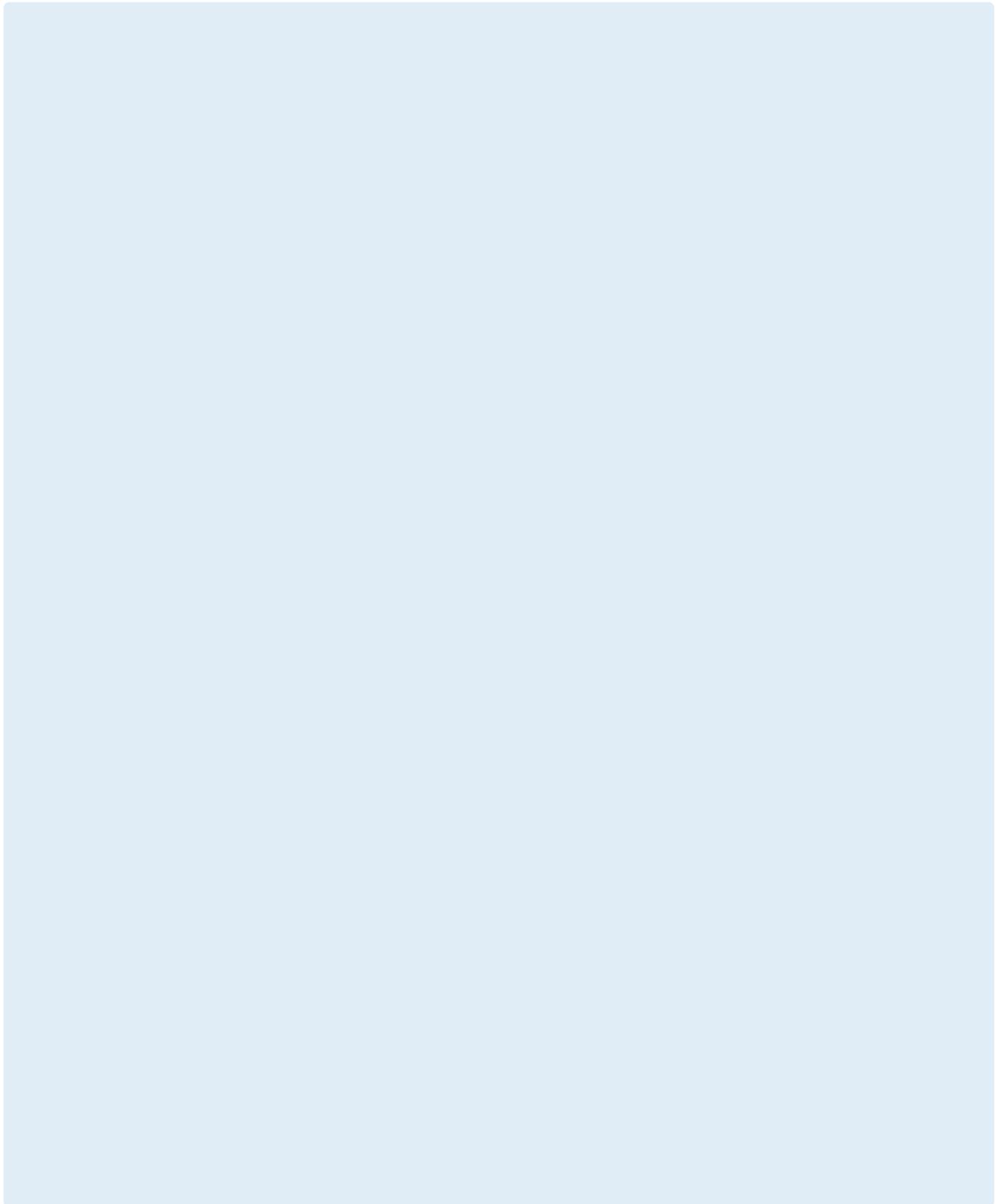
Hanhwa Q Cells Redeemer PJT

Project description	Solar manufacturing plant
Location	Cartersville, GA
Project owner	Hanhwa Q Cells
EPC contractor	Gray Construction, Inc.
Delivery	2023
Supply scope	MV SWGR, LV SWBD, TR Panel

Hi-Light PJT

Project description	Battery manufacturing plant
Location	Jeffersonville, Ohio
Project owner	LG Energy Solutions - Honda JV
EPC contractor	TYK (Turner-Yates-Kokosing JV)
Delivery	2024
Supply scope	Unit S/S, MV/LV SWGR, Transformer

Memo



Solution Power

S5/15 UL Non-Arc-Resistant Metal-Clad Switchgear



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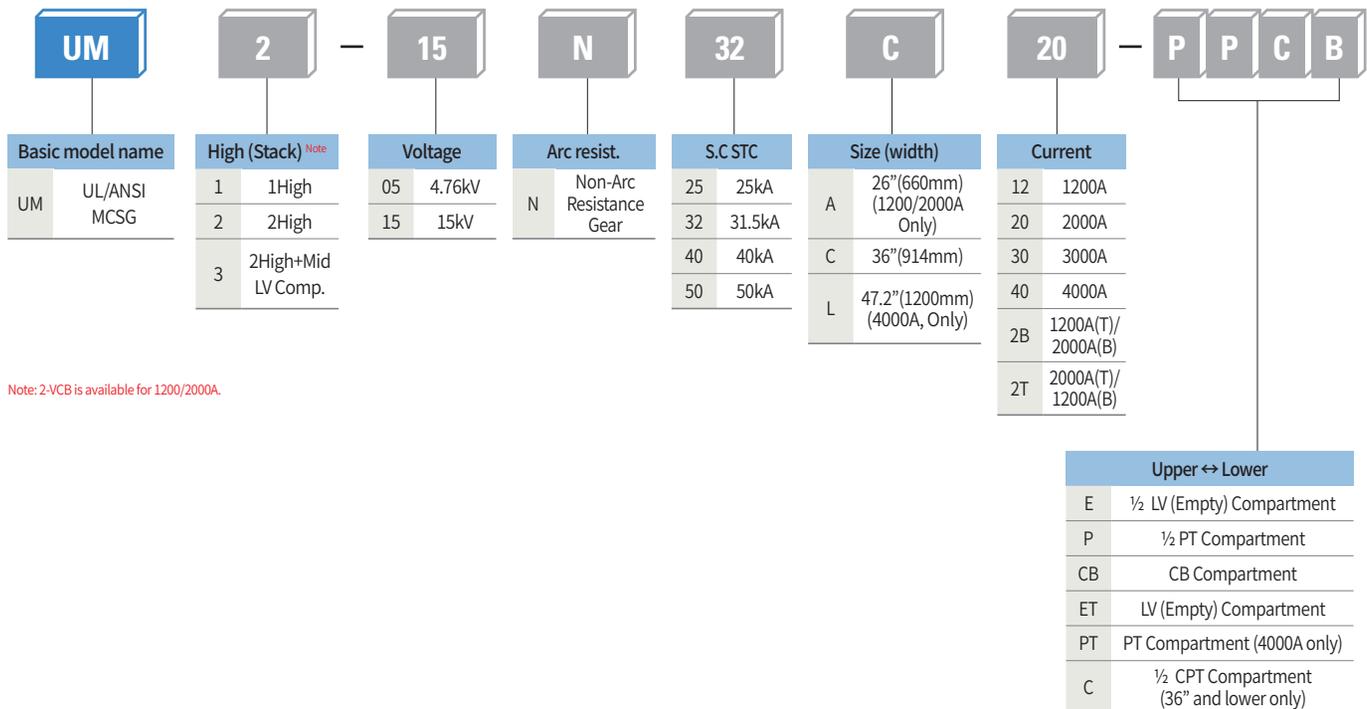
Ratings and description

Ratings

Type	UM□-05 N25	UM□-05 N32	UM□-05 N40	UM□-05 N50	UM□-15 N25	UM□-15 N32	UM□-15 N40	UM□-15 N50
Rated voltage Ur (kV)	4.76				15			
Power frequency withstand voltage(60Hz, 1min) Ud (kV)	19				36			
Lightning impulse withstand voltage(1.2x50μs) Up (kV)	60				95			
Rated interrupting current Ik (kA)	25	31.5	40	50	25	31.5	40	50
Rated interrupting time Cycle	3				3			
Rated continuous current Ir (A)	1200, 2000, 3000, 4000				1200, 2000, 3000, 4000			
Rated short-time current (3 seconds) ^{Note} Ik (kA)	25	31.5	40	50	25	31.5	40	50
Rated momentary current Ip (kA)	65	81.9	104	130	65	81.9	104	130
Applicable standards	IEEE Std C37.20.2, ANSI C37.55							

Notes:
 1. 2-seconds for the ground bus bar
 2. Rated short-time current is 2 seconds in some models
 Contact the factory if detailed information is required

Description



Note: 2-VCB is available for 1200/2000A.

Dimensions

Rated voltage Ur[kV]	Rated interrupting current Ik[kA]	Rated continuous current			Type of switchgear	Dimensions [W×D×H]	
		Ir(A)				inch[mm]	
		Phase distance =178mm	Phase distance =254mm	Phase distance =320mm			
4.76	25	1200 2000			UM1-05N25A12	26×70×88.6 ^{Note}	
					UM1-05N25A20	[660×1778×2250]	
					UM2-05N25A12	26×104×90.5 ^{Note}	
		UM2-05N25A20	[660×2639×2300]				
		UM3-05N25A12	26×91.9×101 ^{Note}				
		UM3-05N25A20	[660×2334×2565]				
	31.5	1200 2000		1200 2000		UM1-05N25C12	36×70×88.6 ^{Note}
						UM1-05N25C20	[914×1778×2250]
						UM3-05N25C12	36×91.9×101 ^{Note}
		UM3-05N25C20	[914×2334×2565]				
		2000 3000			4000	UM2-05N25C12	36×104×90.5 ^{Note}
						UM2-05N25C20	[660×2639×2300]
UM2-05N25C30							
40	1200 2000				UM1-05N32A12	26×70×88.6 ^{Note}	
					UM1-05N32A20	[660×1778×2250]	
					UM2-05N32A12	26×104×90.5 ^{Note}	
		UM2-05N32A20	[660×2639×2300]				
		UM3-05N32A12	26×91.9×101 ^{Note}				
		UM3-05N32A20	[660×2334×2565]				
	2000 3000	1200 2000				UM1-05N32C12	36×70×88.6 ^{Note}
						UM1-05N32C20	[914×1778×2250]
						UM3-05N32C12	36×91.9×101 ^{Note}
		UM3-05N32C20	[914×2334×2565]				
		2000 3000			4000	UM2-05N32C12	36×104×90.5 ^{Note}
						UM2-05N32C20	[914×2639×2300]
UM2-05N32C30							
50	1200 2000				UM1-05N40A12	26×70×88.6 ^{Note}	
					UM1-05N40A20	[660×1778×2250]	
					UM2-05N40A12	26×104×90.5 ^{Note}	
		UM2-05N40A20	[660×2639×2300]				
		UM3-05N40A12	26×91.9×101 ^{Note}				
		UM3-05N40A20	[660×2334×2565]				
	2000 3000	1200 2000 3000				UM1-05N40C12	36×70×88.6 ^{Note}
						UM1-05N40C20	[914×1778×2250]
						UM1-05N40C30	
		2000 3000			4000	UM2-05N40C12	36×104×90.5 ^{Note}
						UM2-05N40C20	[914×2639×2300]
						UM2-05N40C30	
2000 3000	1200 2000 3000				UM3-05N40C12	36×91.9×101 ^{Note}	
					UM3-05N40C20	[914×2334×2565]	
					UM3-05N40C30		
	2000 3000	1200 2000 3000				UM1-05N50A12	26×70×88.6 ^{Note}
						UM1-05N50A20	[660×1778×2250]
						UM2-05N50A12	26×104×90.5 ^{Note}
UM2-05N50A20		[660×2639×2300]					
UM3-05N50A12		26×91.9×101 ^{Note}					
UM3-05N50A20		[660×2334×2565]					
2000 3000	1200 2000 3000				UM1-05N50C12	36×70×88.6 ^{Note}	
					UM1-05N50C20	[914×1778×2250]	
					UM1-05N50C30		
	2000 3000			4000	UM2-05N50C12	36×104×90.5 ^{Note}	
					UM2-05N50C20	[914×2639×2300]	
					UM2-05N50C30		
2000 3000	1200 2000 3000				UM3-05N50C12	36×91.9×101 ^{Note}	
					UM3-05N50C20	[914×2334×2565]	
					UM3-05N50C30		
	2000 3000	1200 2000 3000				UM1-05N50L40	47.2×104×90.5 ^{Note}
							[1200×2639×2300]

Notes:

- Contact the factory if a different depth is required (customization available upon request).
- Depth may be extended or reduced depending on the type of instruments, device options, or the arrangement of incoming/outgoing cables.
- For UM1 type, the depth can be extended up to 110.2 inches (2800mm), except for the 4000A model.
The UM1 4000A model, as well as UM2 and UM3 types, can be extended up to 133.8 inches (3400mm).

Dimensions and configurations

Dimensions

Rated voltage	Rated interrupting current	Rated continuous current			Type of switchgear	Dimensions [W×D×H]	
Ur[kV]	Ik[kA]	Ir(A)				inch[mm]	
		Phase distance =178mm	Phase distance =254mm	Phase distance =320mm			
15	25	1200 2000			UM1-15N25A12	26×70×88.6 ^{Note}	
					UM1-15N25A20	[660×1778×2250]	
					UM2-15N25A12	26×104×90.5 ^{Note}	
					UM2-15N25A20	[660×2639×2300]	
					UM3-15N25A12	26×91.9×101 ^{Note}	
					UM3-15N25A20	[660×2334×2565]	
		1200 2000			1200 2000	UM1-15N25C12	36×70×88.6 ^{Note}
						UM1-15N25C20	[914×1778×2250]
						UM3-15N25C12	36×91.9×101 ^{Note}
						UM3-15N25C20	[914×2334×2565]
						UM2-15N25C12	36×104×90.5 ^{Note}
						UM2-15N25C20	[914×2639×2300]
	1200 2000 3000			1200 2000 3000	UM2-15N25C12	36×104×90.5 ^{Note}	
					UM2-15N25C20	[914×2639×2300]	
					UM2-15N25C30	[914×2639×2300]	
					4000	UM1-15N25L40	47.2×104×90.5 ^{Note}
							[1200×2639×2300]
	31.5	1200 2000			UM1-15N32A12	26×70×88.6 ^{Note}	
					UM1-15N32A20	[660×1778×2250]	
					UM2-15N32A12	26×104×90.5 ^{Note}	
					UM2-15N32A20	[660×2639×2300]	
					UM3-15N32A12	26×91.9×101 ^{Note}	
					UM3-15N32A20	[660×2334×2565]	
1200 2000				1200 2000	UM1-15N32C12	36×70×88.6 ^{Note}	
					UM1-15N32C20	[914×1778×2250]	
					UM3-15N32C12	36×91.9×101 ^{Note}	
					UM3-15N32C20	[914×2334×2565]	
					UM2-15N32C12	36×104×90.5 ^{Note}	
					UM2-15N32C20	[914×2639×2300]	
1200 2000 3000			1200 2000 3000	UM2-15N32C12	36×104×90.5 ^{Note}		
				UM2-15N32C20	[914×2639×2300]		
				UM2-15N32C30	[914×2639×2300]		
				4000	UM1-15N32L40	47.2×104×90.5 ^{Note}	
						[1200×2639×2300]	
40	1200 2000			UM1-15N40A12	26×70×88.6 ^{Note}		
				UM1-15N40A20	[660×1778×2250]		
				UM2-15N40A12	26×104×90.5 ^{Note}		
				UM2-15N40A20	[660×2639×2300]		
				UM3-15N40A12	26×91.9×101 ^{Note}		
				UM3-15N40A20	[660×2334×2565]		
	1200 2000 3000			1200 2000 3000	UM1-15N40C12	36×70×88.6 ^{Note}	
					UM1-15N40C20	[914×1778×2250]	
					UM1-15N40C30	[914×1778×2250]	
					UM2-15N40C12	36×104×90.5 ^{Note}	
					UM2-15N40C20	[914×2639×2300]	
					UM2-15N40C30	[914×2639×2300]	
1200 2000 3000			1200 2000 3000	UM3-15N40C12	36×91.9×101 ^{Note}		
				UM3-15N40C20	[914×2334×2565]		
				UM3-15N40C30	[914×2334×2565]		
				4000	UM1-15N40L40	47.2×104×90.5 ^{Note}	
						[1200×2639×2300]	
50	1200 2000			UM1-15N50A12	26×70×88.6 ^{Note}		
				UM1-15N50A20	[660×1778×2250]		
				UM2-15N50A12	26×104×90.5 ^{Note}		
				UM2-15N50A20	[660×2639×2300]		
				UM3-15N50A12	26×91.9×101 ^{Note}		
				UM3-15N50A20	[660×2334×2565]		
	1200 2000 3000			1200 2000 3000	UM1-15N50C12	36×70×88.6 ^{Note}	
					UM1-15N50C20	[914×1778×2250]	
					UM1-15N50C30	[914×1778×2250]	
					UM2-15N50C12	36×104×90.5 ^{Note}	
					UM2-15N50C20	[914×2639×2300]	
					UM2-15N50C30	[914×2639×2300]	
1200 2000 3000			1200 2000 3000	UM3-15N50C12	36×91.9×101 ^{Note}		
				UM3-15N50C20	[914×2334×2565]		
				UM3-15N50C30	[914×2334×2565]		
				4000	UM1-15N50L40	47.2×104×90.5 ^{Note}	
						[1200×2639×2300]	

Notes:

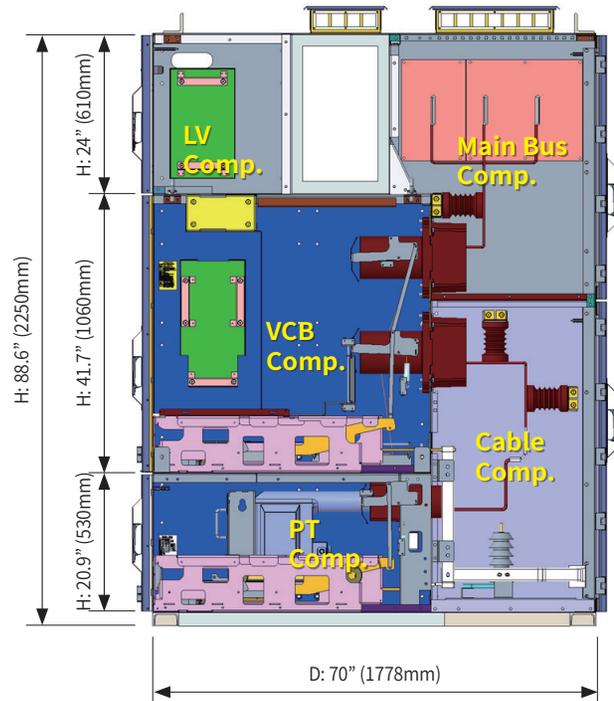
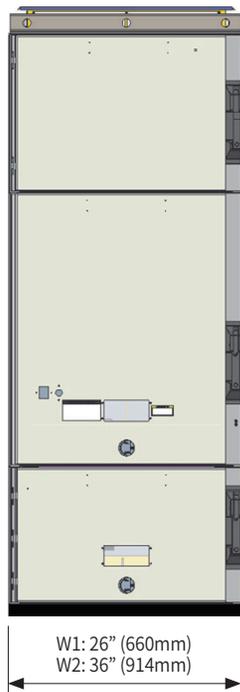
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The UM1 4000A model, as well as UM2 and UM3 types, can be extended up to 133.8 inches (3400mm).

■ Front view

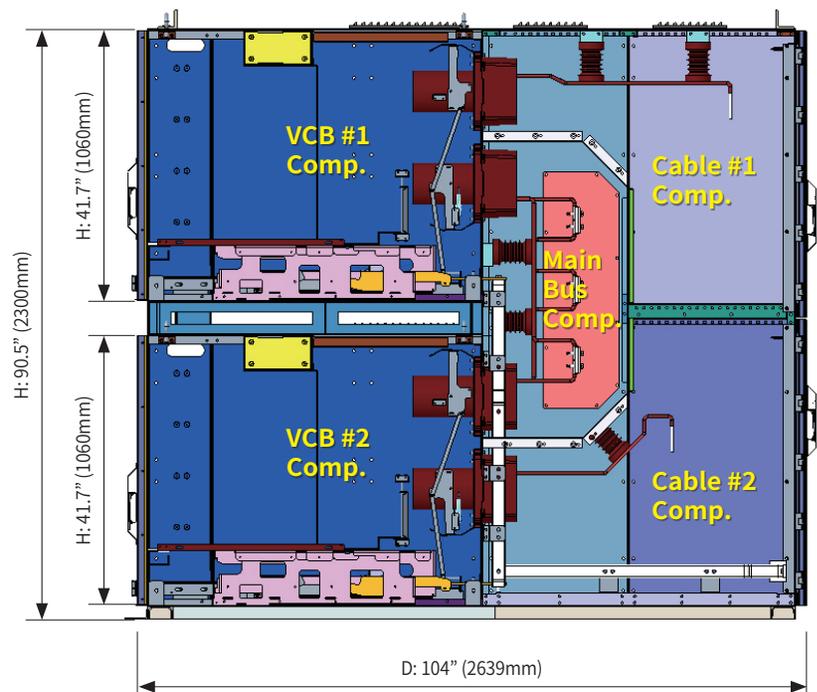
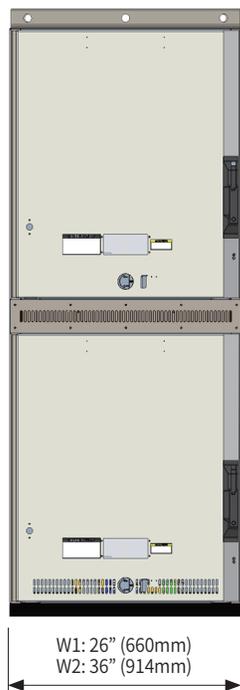
■ Side view

[Unit: inch(mm)]

1200 and 2000A
1-High (Mid VCB)



1200 and 2000A
2-High



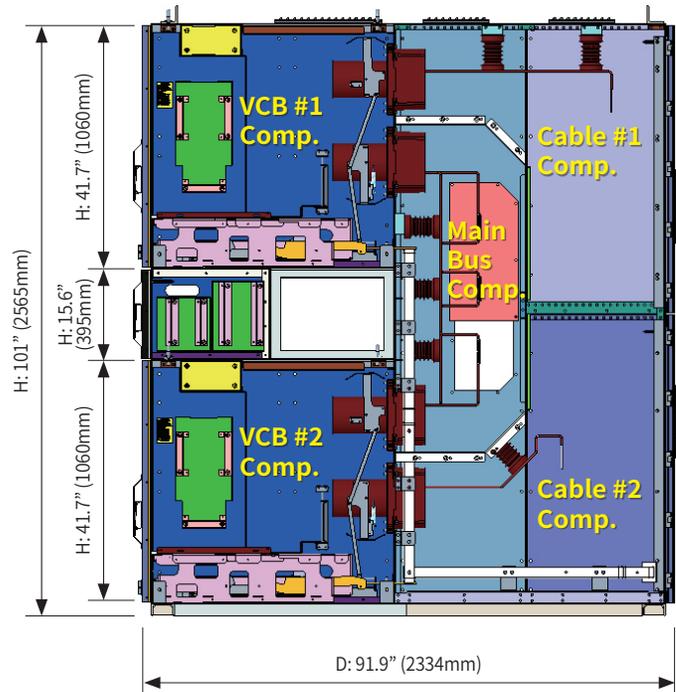
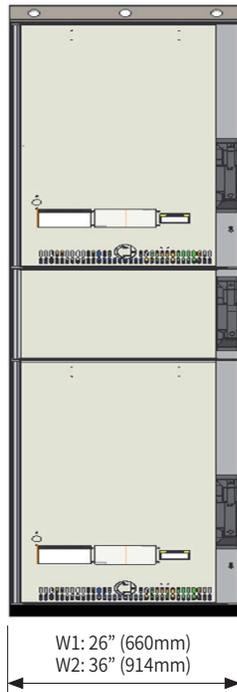
Dimensions and configurations

■ Front view

■ Side view

[Unit: inch(mm)]

1200 and 2000A
2-High + Mid
LV Comp.

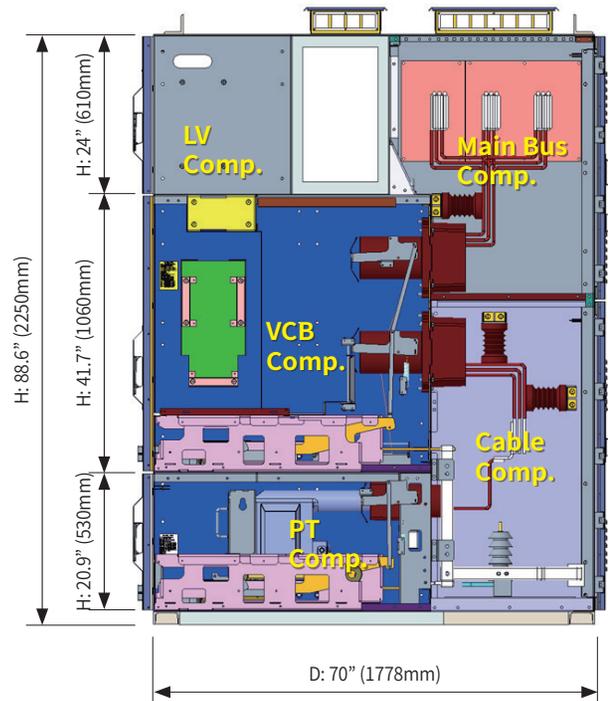
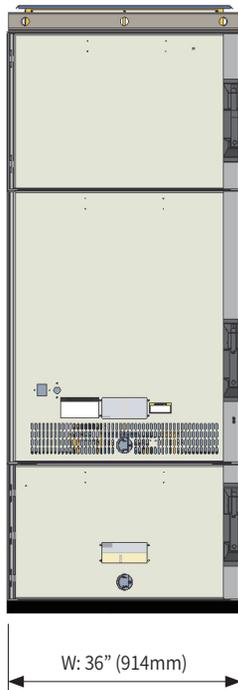


■ Front view

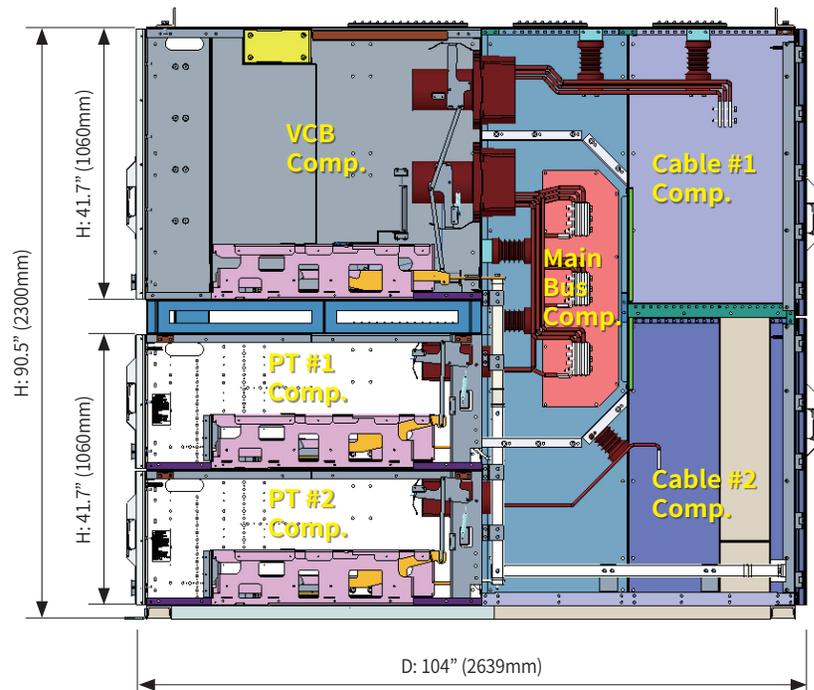
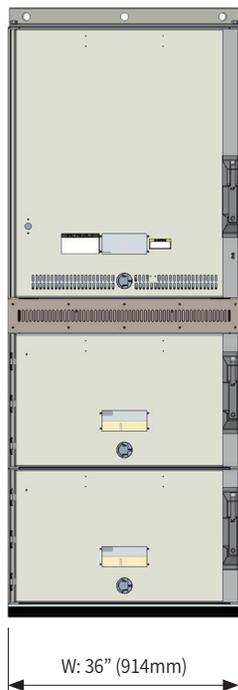
■ Side view

[Unit: inch(mm)]

**3000A
1-High (Mid VCB)**



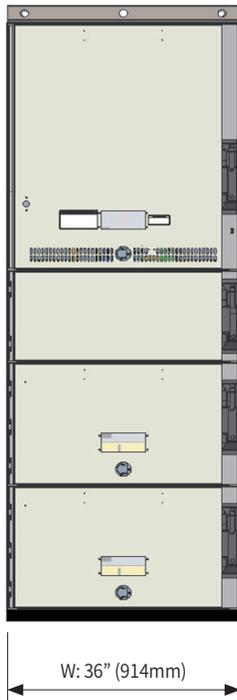
**3000A
2-High**



Dimensions and configurations

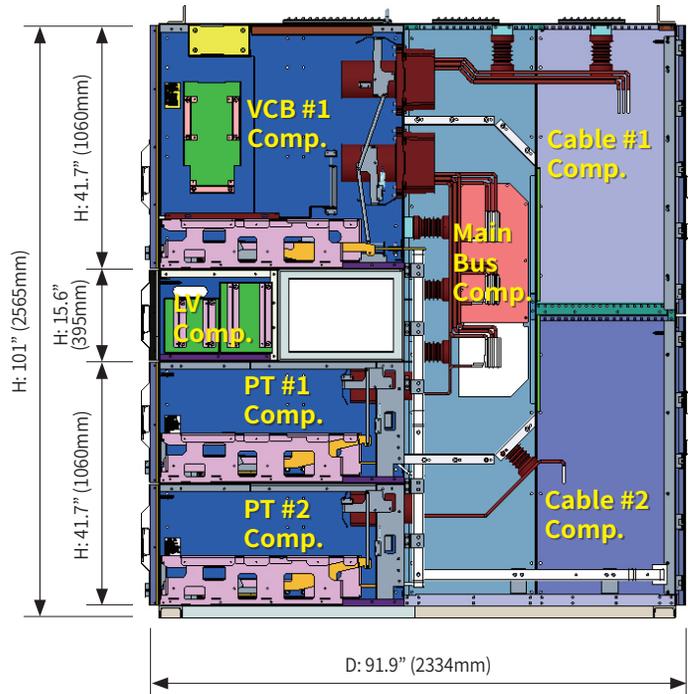
3000A
2-High + Mid
LV Comp.

■ Front view

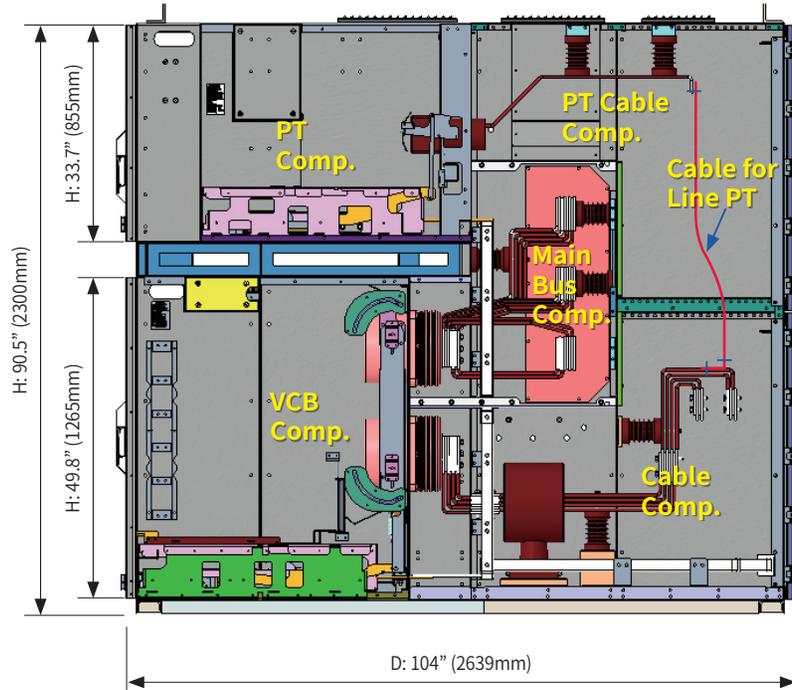
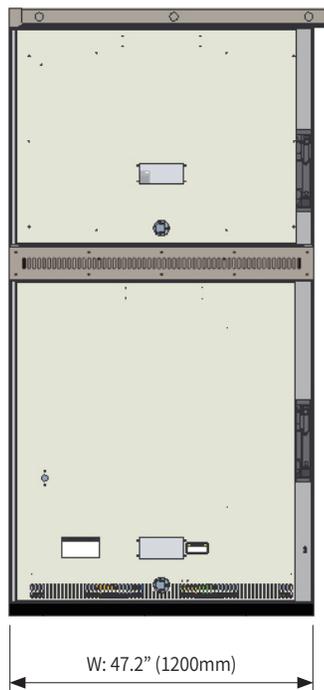


■ Side view

[Unit: inch(mm)]

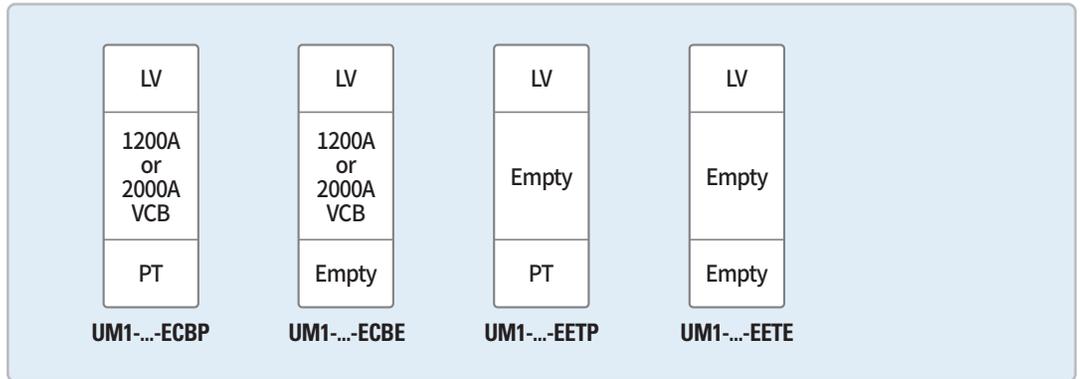


4000A
1-High

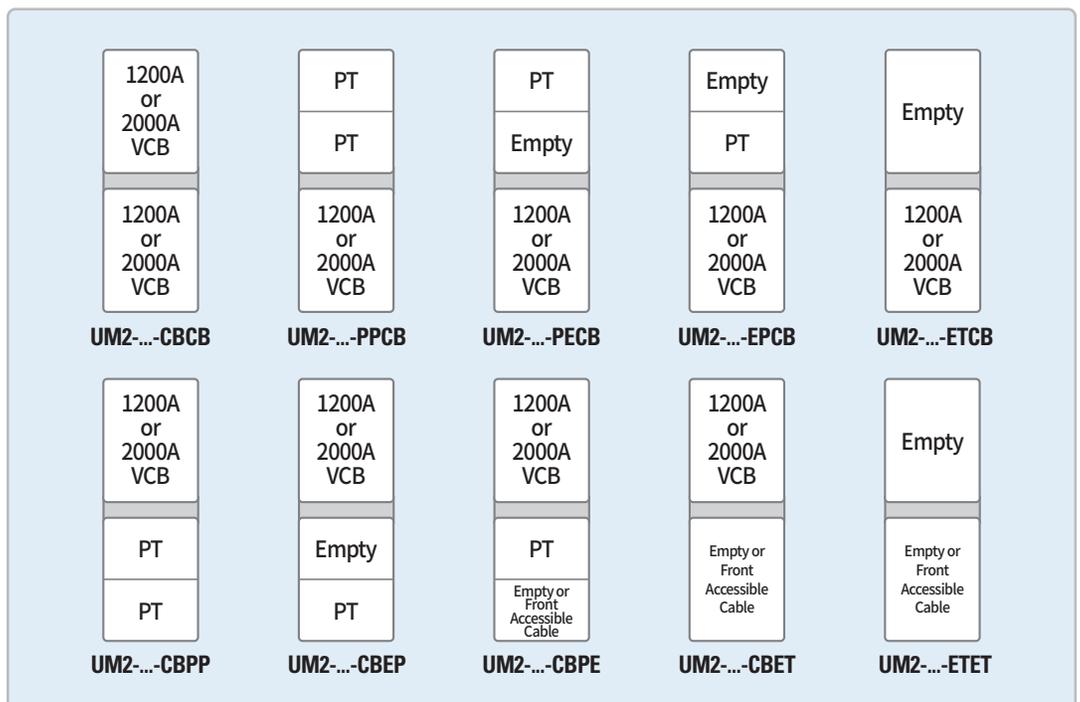


Available configurations

1200 and 2000A 1-High (Mid VCB)



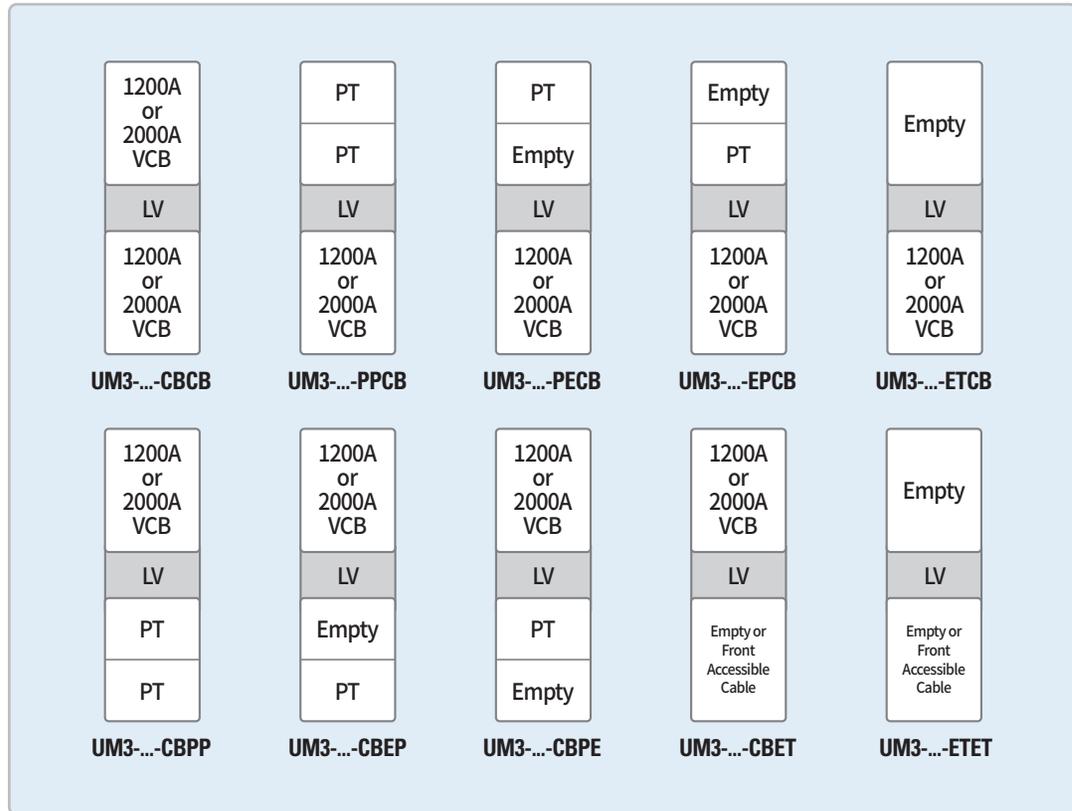
1200 and 2000A 2-High



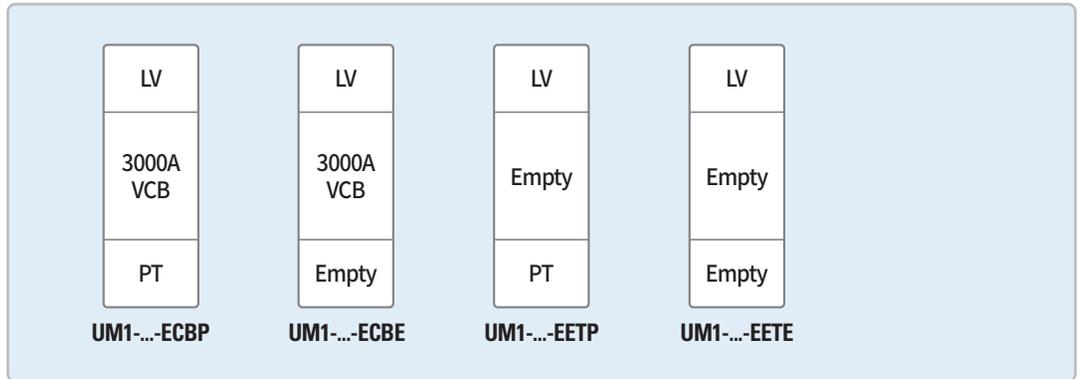
Dimensions and configurations

Available configurations

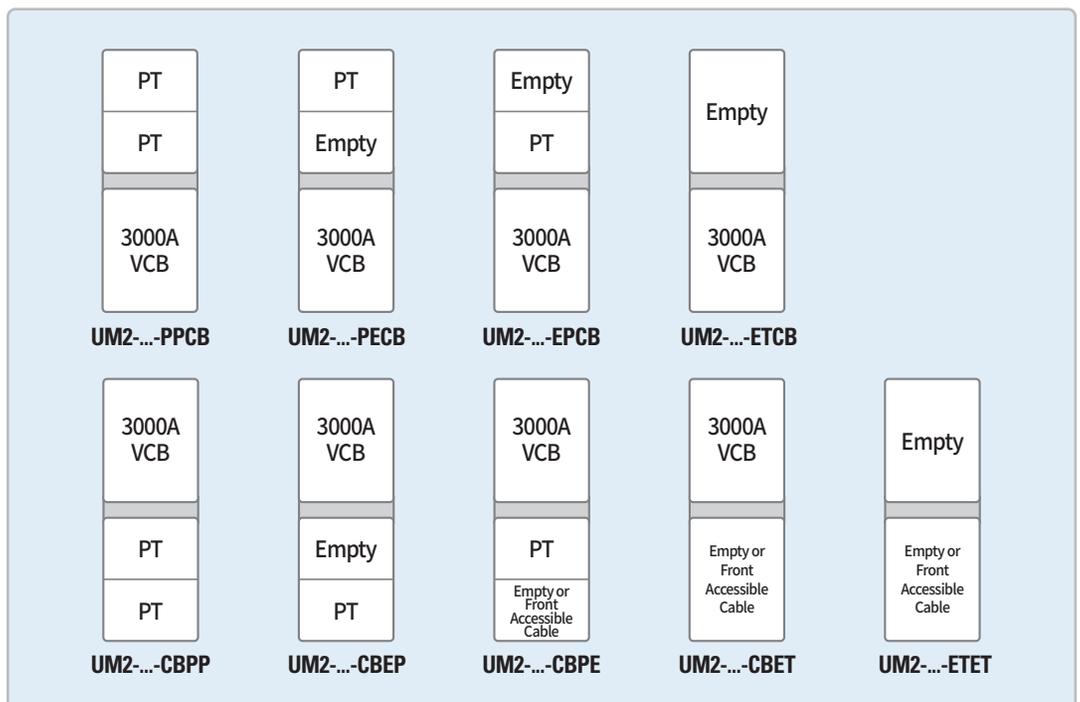
1200 and 2000A
2-High + Mid LV
Comp.



**3000A
1-High (Mid VCB)**



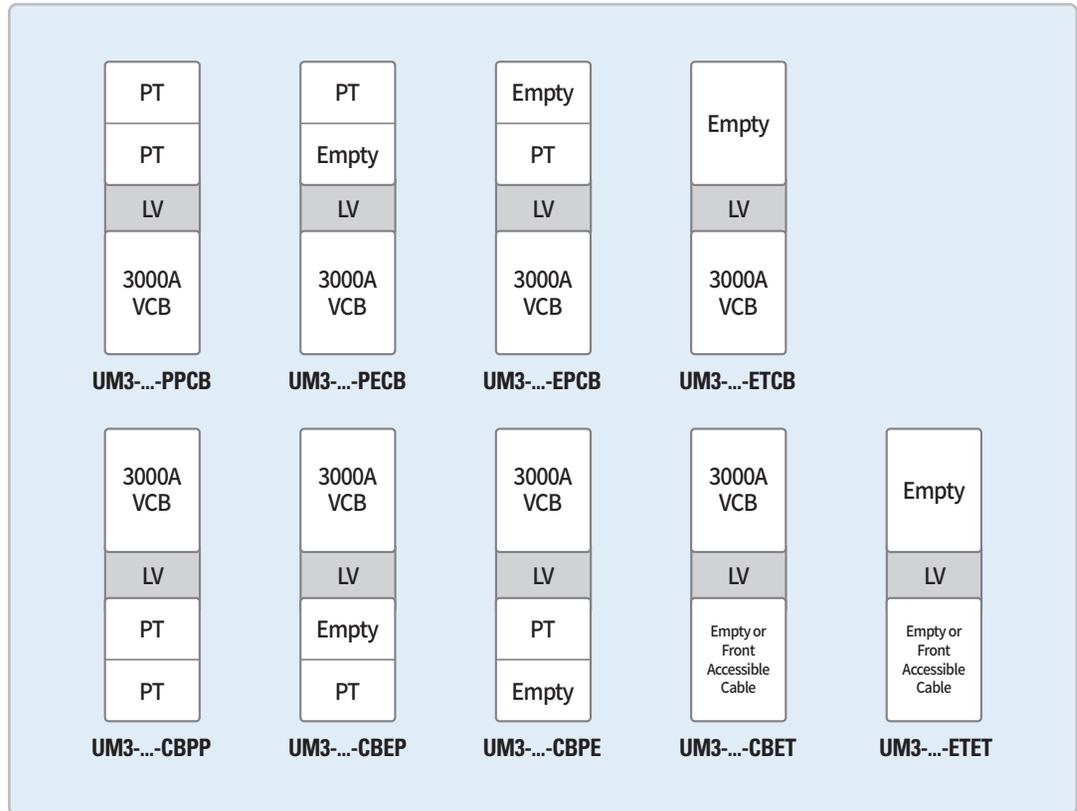
**3000A
2-High**



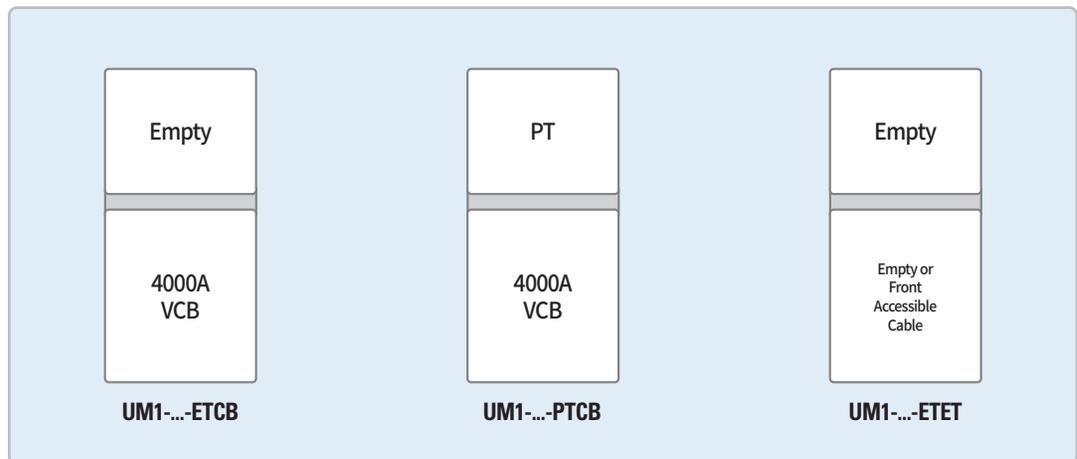
Dimensions and configurations

Available configurations

**3000A
2-High + Mid LV
Comp.**



**4000A
1-High**





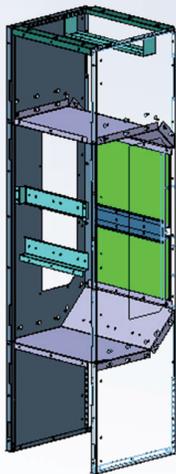
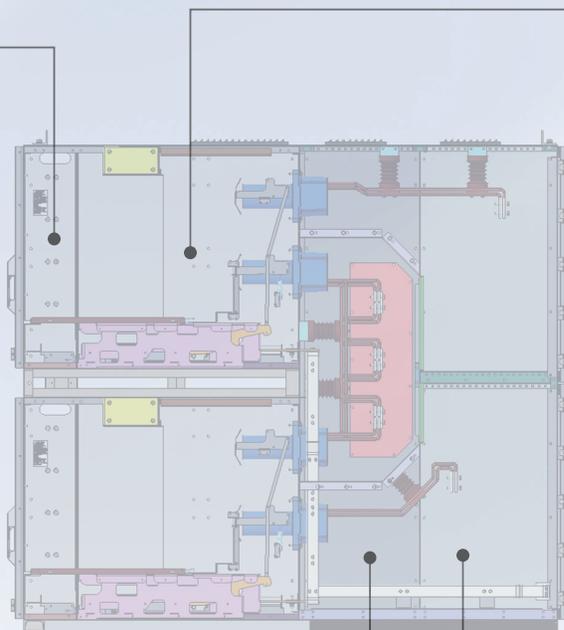
Low voltage compartment

- Provides sufficient space to test and easily replace the internal controls.



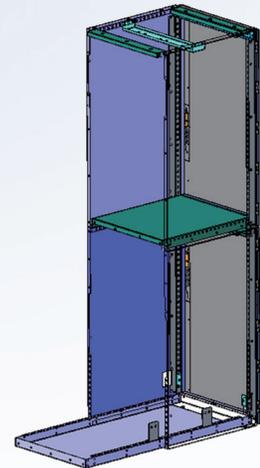
CB compartment

- The C.B. can be drawn in and out without opening the door.
- Viewing window for C.B. inspection
- Solid structure with hinges and lock
- Metal shutter with padlock
- IP cover on the front of the C.B.



Bus compartment

- Independent bus compartment structure. Breaker interruption does not affect the operation of adjacent compartments.



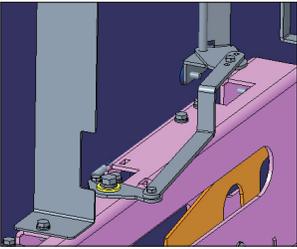
Cable compartment

- Sufficient space for wiring
- Insulation cap for the dielectric of the earthing switch
- Bottom incoming and outgoing only (top incoming and outgoing not available)

Accessories

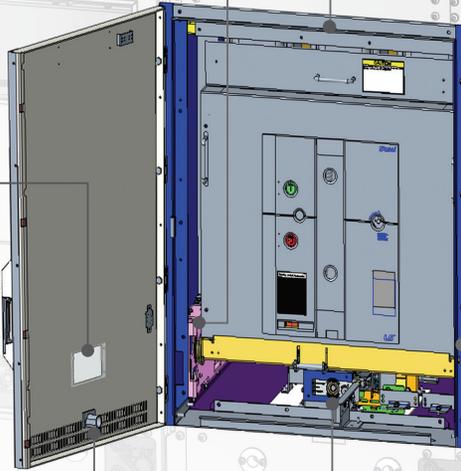
Shutter padlock

The holes to lock the shutters (load and line sides) are in the closed position to enhance safety during maintenance of the VCB when it is in the drawn-out position.



Inspection window

The viewing window allows observation of the breaker status through the closed door.



Draw-in and out device

The C.B. can be drawn in and out with the door closed.

Plug-in interlock

This device prevents the C.B. from disconnecting from the jack terminal when it is in the service position.

Interlocking device between door and C.B.

When the C.B. is in the service position, the operator cannot open the door without first releasing the door interlock.

Truck 3-Position withdraw structure

The Truck 3-Position withdraw structure was reviewed in accordance with ANSI standards for Susol VCB (LS VCB).

Solution Power

S27 UL Non-Arc-Resistant Metal-Clad Switchgear



Contents

▪ Ratings and description	30
▪ Dimensions and configurations	31
▪ Compartment	43
▪ Accessories	44

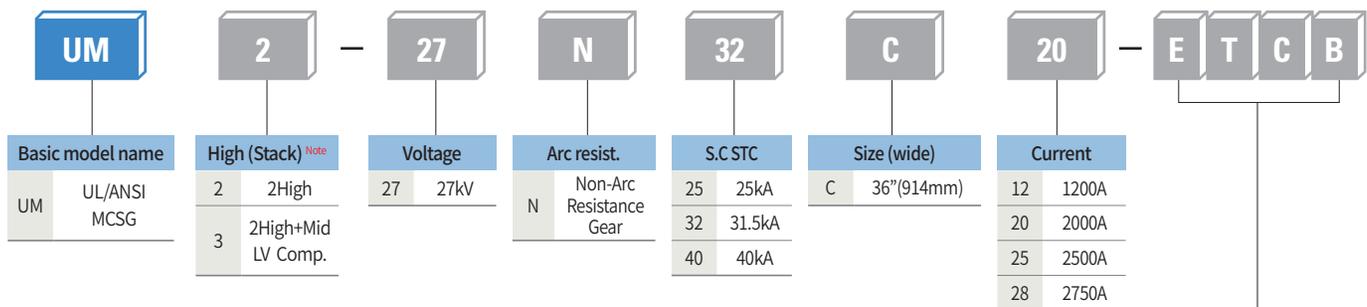
Ratings and description

Ratings

Type	UM□- 27N25C12	UM□- 27N32C12	UM□- 27N40C12	UM□- 27N25C20	UM□- 27N32C20	UM□- 27N40C20	UM□- 27N25C25	UM□- 27N32C25	UM□- 27N40C25	UM□- 27N25C28	UM□- 27N32C28	UM□- 27N40C28	
Rated voltage	Ur (kV)		27kV										
Power frequency withstand voltage(60Hz, 1min)	Ud (kV)		60										
Lightning impulse withstand voltage(1.2x50μs)	Up (kV)		125										
Rated interrupting current	Ik (kA)	25	31.5	40	25	31.5	40	25	31.5	40	25	31.5	40
Rated interrupting time	Cycle	3											
Rated continuous current	Ir (A)	1200			2000			2500			2750		
Rated short-time current (3 seconds) ^{Note}	Ik (kA)	25	31.5	40	25	31.5	40	25	31.5	40	25	31.5	40
Rated momentary current	Ip (kA)	65	82	104	65	82	104	65	82	104	65	82	104
Applicable standards	IEEE Std C37.20.2, ANSI C37.55												

Note: 2-seconds for the ground bus bar

Description



Note: 2-VCB is available for 1200A.

Upper ↔ Lower	
CB	CB Compartment
ET	LV(Empty) Compartment
PU	PT (Upper Terminal) Compartment
PL	PT (Lower Terminal) Compartment
AF	Aux Fuse Compartment
CP	CPT Compartment (Lower only)

Dimensions

Rated interrupting current	Rated Continuous current	Type of switchgear	Dimensions [W×D×H]
I _k (kA)	I _r (A)		inch[mm]
25	1200 2000	UM2-27N25C12 UM2-27N25C20	36×110.5×99.8 ^{Note} (914×2806×2534)
		UM3-27N25C12 UM3-27N25C20	36×110.5×112 ^{Note} (914×2806×2844)
	2500 2750	UM2-27N25C25 UM2-27N25C28	36×118×99.8 ^{Note} (914×3000×2534)
		UM3-27N25C25 UM3-27N25C28	36×118×112 ^{Note} (914×3000×2844)
31.5	1200 2000	UM2-27N32C12 UM2-27N32C20	36×110.5×99.8 ^{Note} (914×2806×2534)
		UM3-27N32C12 UM3-27N32C20	36×110.5×112 ^{Note} (914×2806×2844)
	2500 2750	UM2-27N32C25 UM2-27N32C28	36×118×99.8 ^{Note} (914×3000×2534)
		UM3-27N32C25 UM3-27N32C28	36×118×112 ^{Note} (914×3000×2844)
40	1200 2000	UM2-27N40C12 UM2-27N40C20	36×110.5×99.8 ^{Note} (914×2806×2534)
		UM3-27N40C12 UM3-27N40C20	36×110.5×112 ^{Note} (914×2806×2844)
	2500 2750	UM2-27N40C25 UM2-27N40C28	36×118×99.8 ^{Note} (914×3000×2534)
		UM3-27N40C25 UM3-27N40C28	36×118×112 ^{Note} (914×3000×2844)

Notes:

1. Contact the factory if a different depth is required (customization available upon request).
2. Depth may be extended or reduced depending on the type of instruments, device options, or the arrangement of incoming/outgoing cables.
3. Depth can be extended up to 141.7 inches (3600mm).

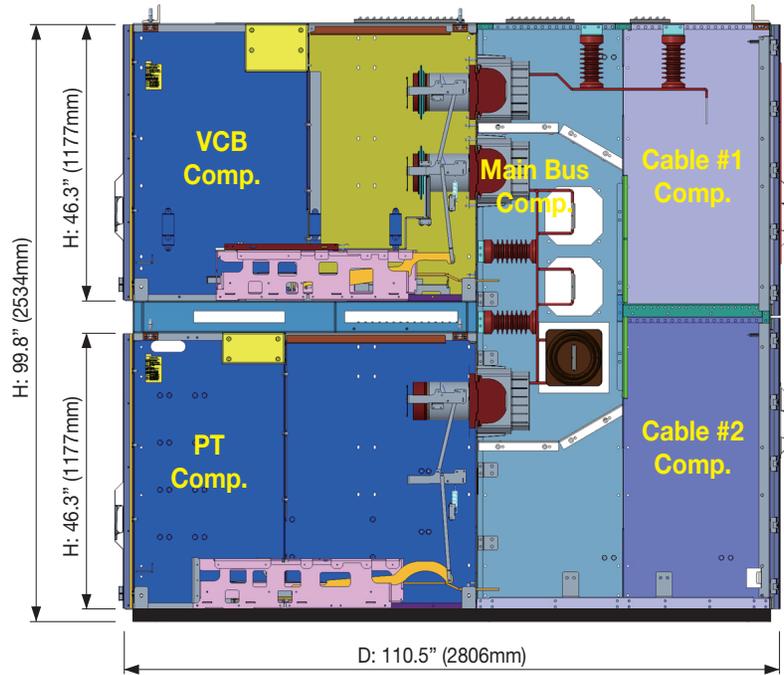
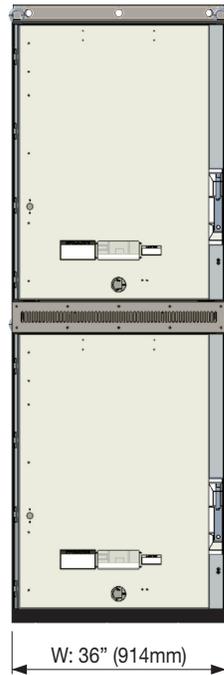
Dimensions and configurations

■ Front view

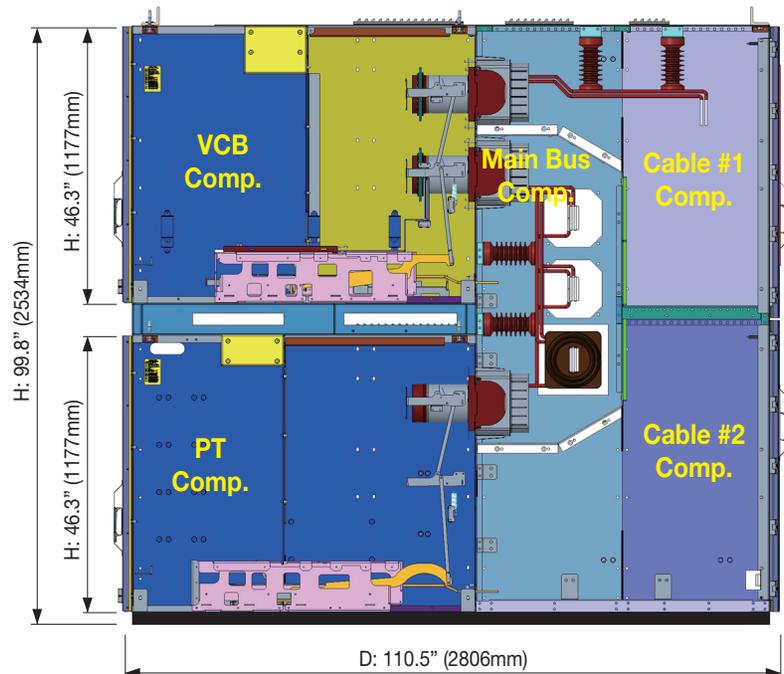
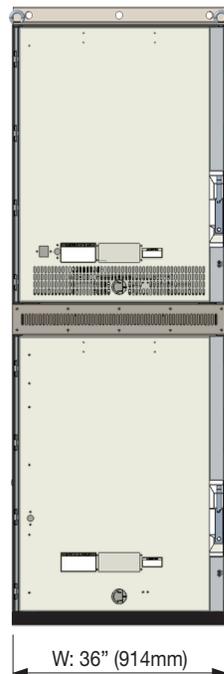
■ Side view

[Unit: inch(mm)]

25kA
1200A
2-High
Breaker/PT



25kA
2000A
2-High
Breaker/PT

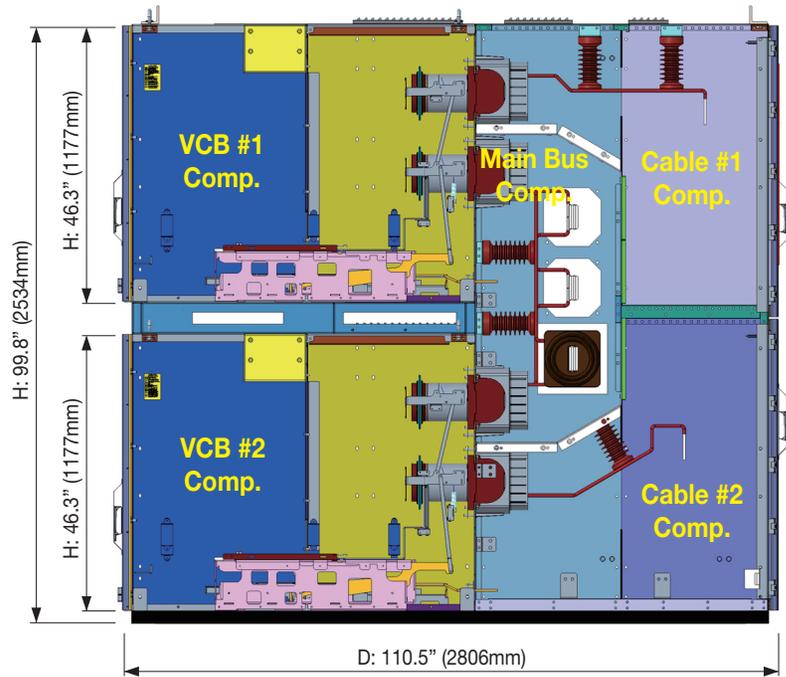
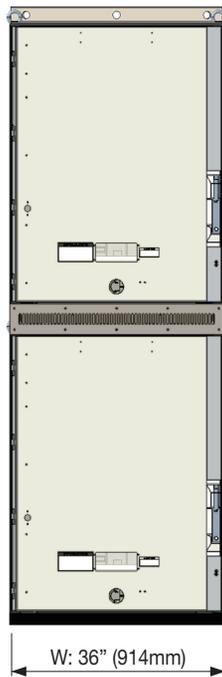


■ Front view

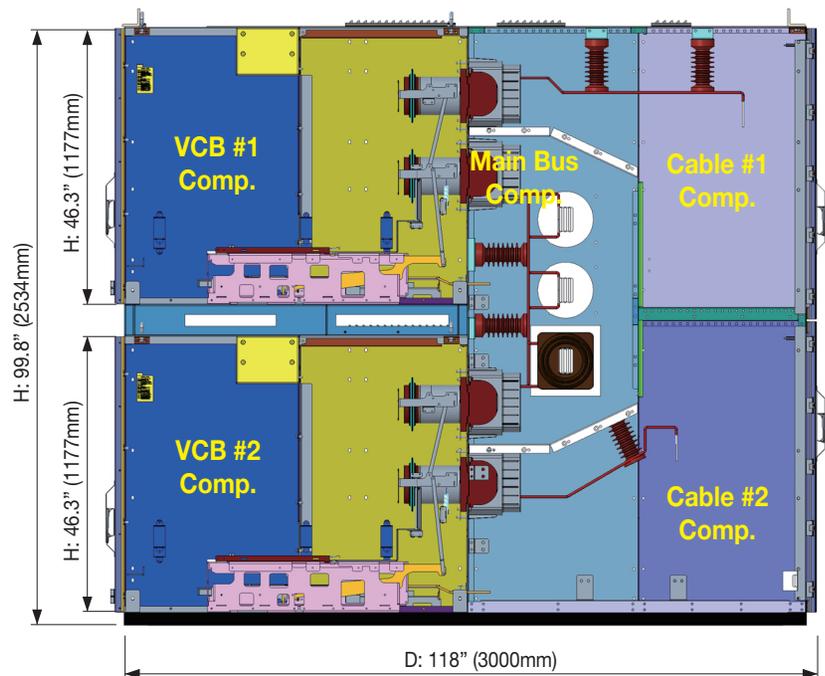
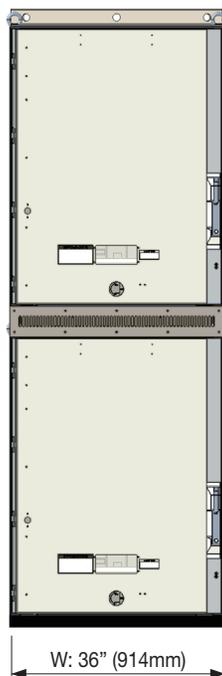
■ Side view

[Unit: inch(mm)]

25kA
1000 and 1000A
2-High
Breaker/Breaker



25kA
1200 and 1200A
2-High
Breaker/Breaker



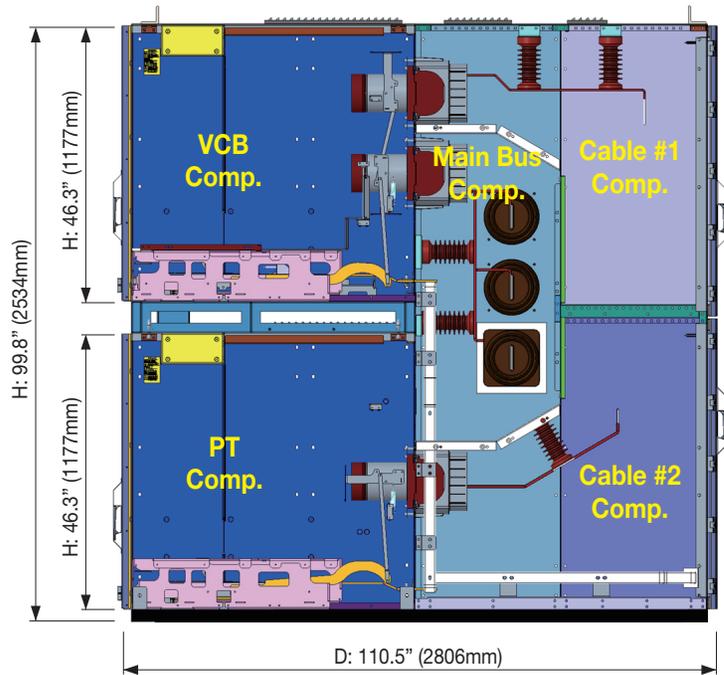
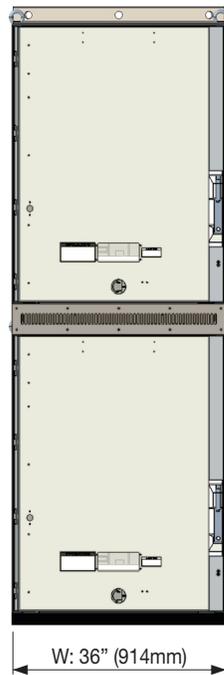
Dimensions and configurations

■ Front view

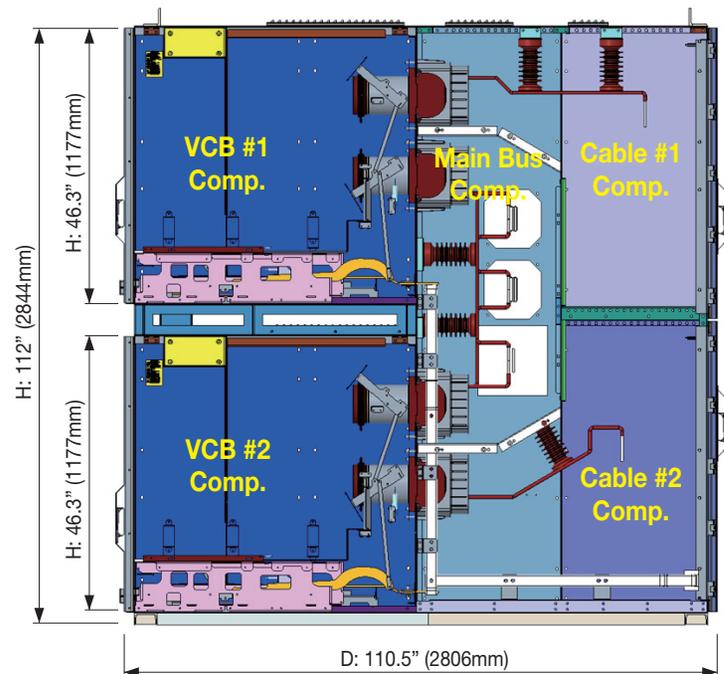
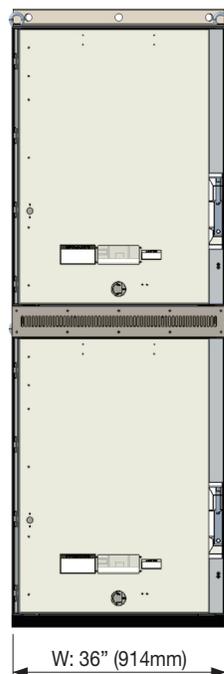
■ Side view

[Unit: inch(mm)]

31.5kA/40kA
1200A
2-High
Breaker/PT



31.5kA/40kA
1000 and 1000A
2-High
Breaker/Breaker

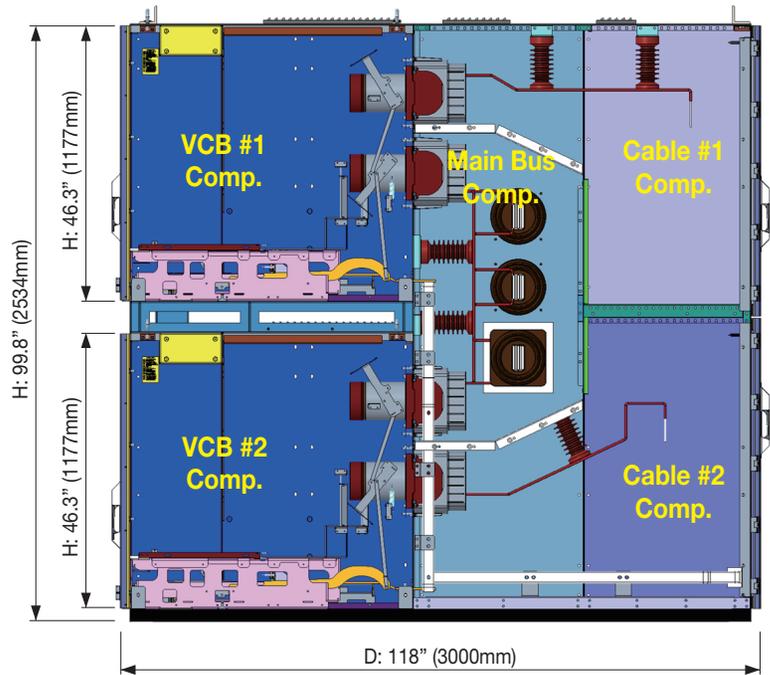
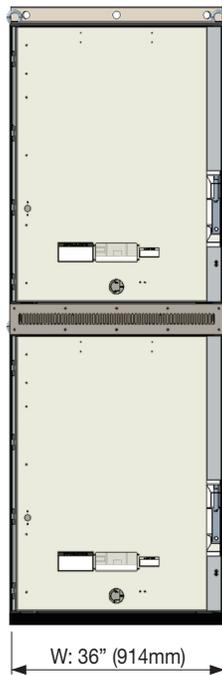


■ Front view

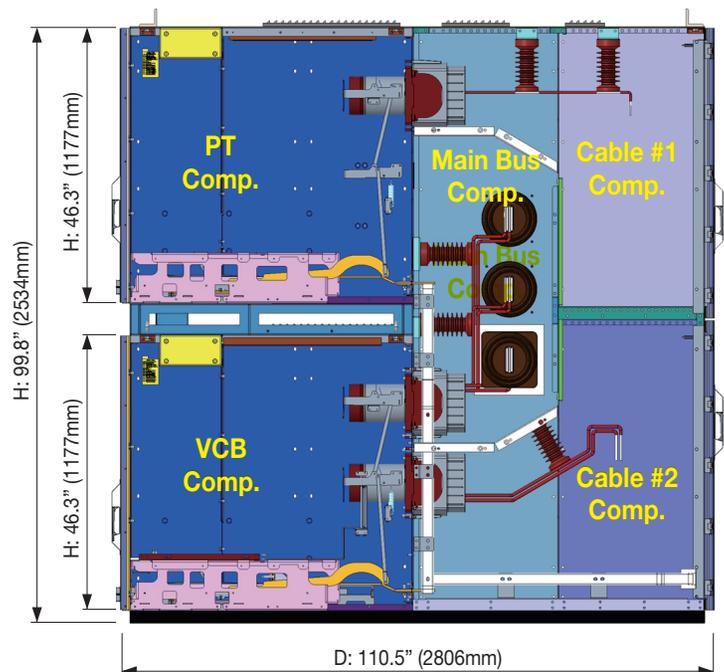
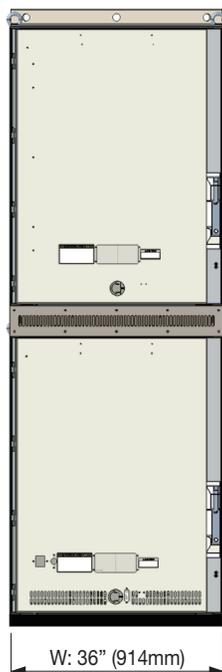
■ Side view

[Unit: inch(mm)]

31.5kA/40kA
1200 and 1200A
2-High
Breaker/Breaker



31.5kA/40kA
2000A
2-High
PT/Breaker



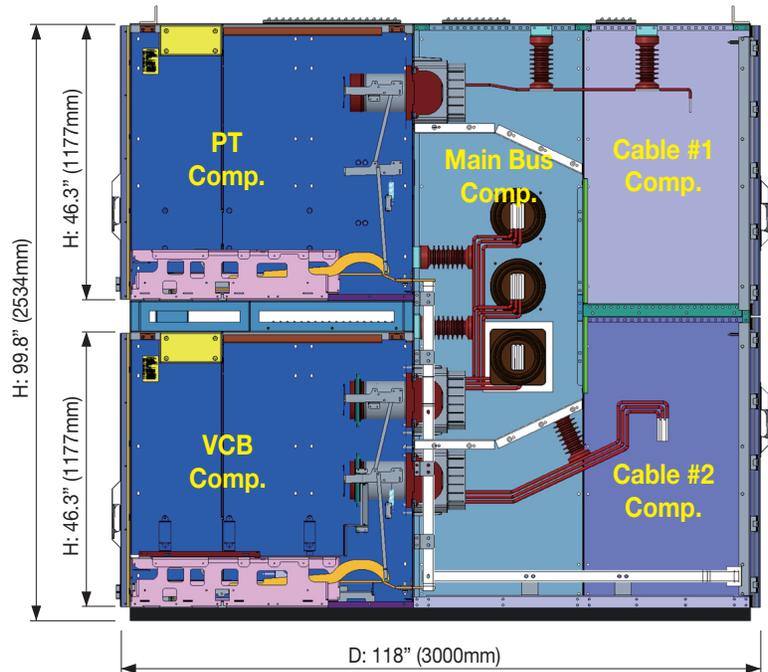
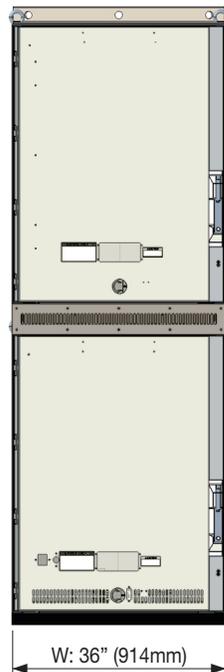
Dimensions and configurations

■ Front view

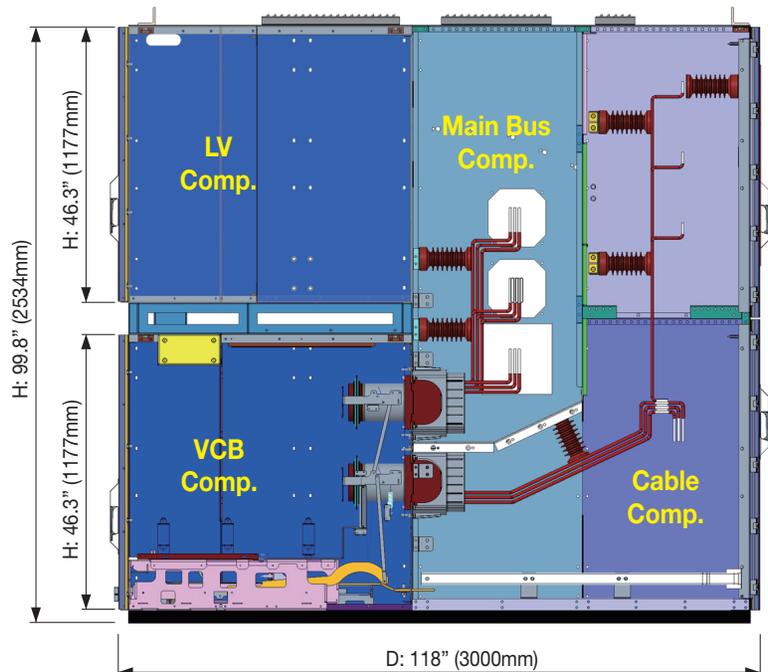
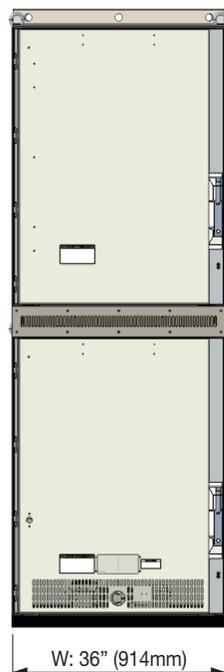
■ Side view

[Unit: inch(mm)]

31.5kA/40kA
2500A
2-High
PT/Breaker



25kA/31.5kA/40kA
2750A
2-High
LV/Breaker

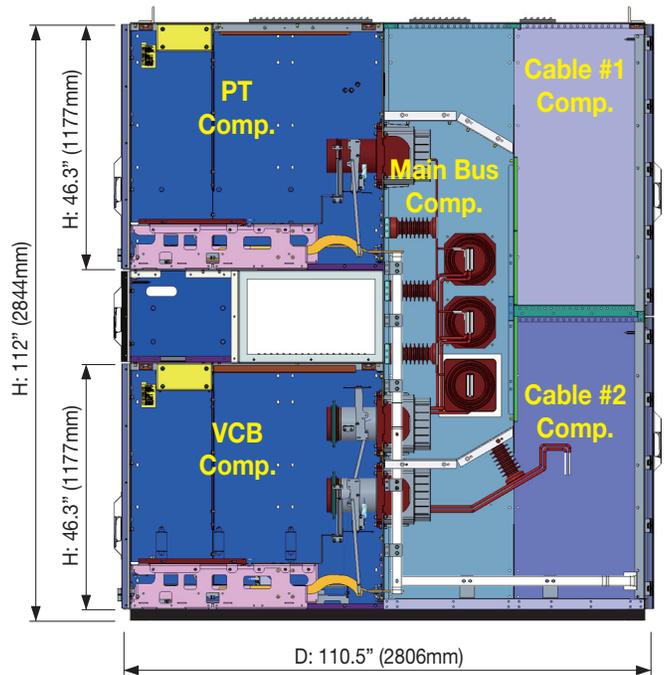
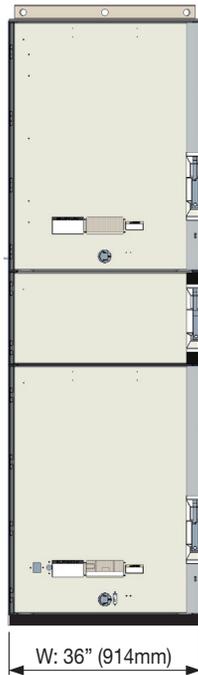


■ Front view

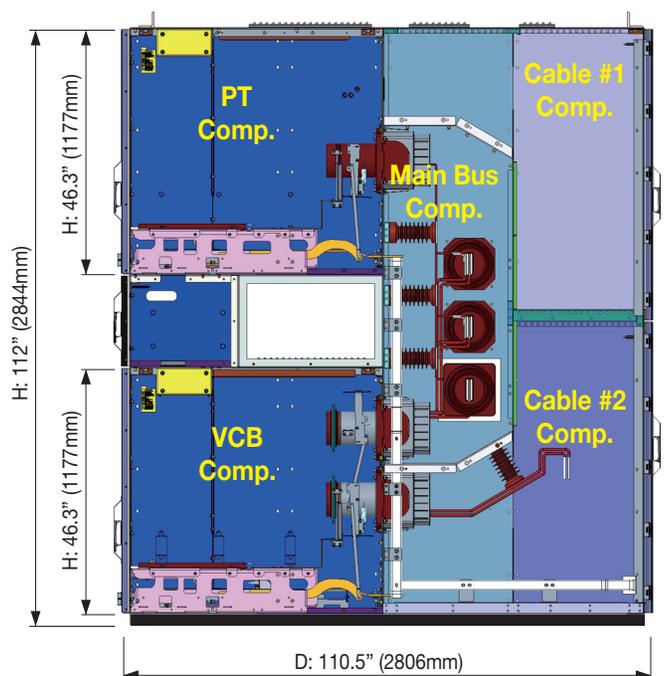
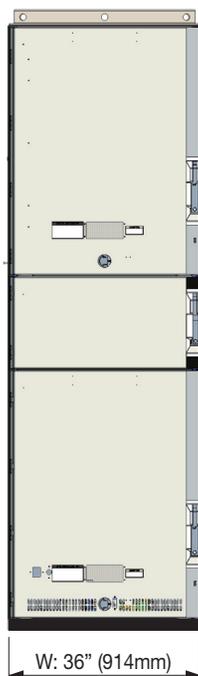
■ Side view

[Unit: inch(mm)]

25kA/31.5kA/40kA
1200A
2-High + Mid
LV Comp.
PT/Breaker



31.5kA/40kA
2000A
2-High + Mid
LV Comp.
PT/Breaker



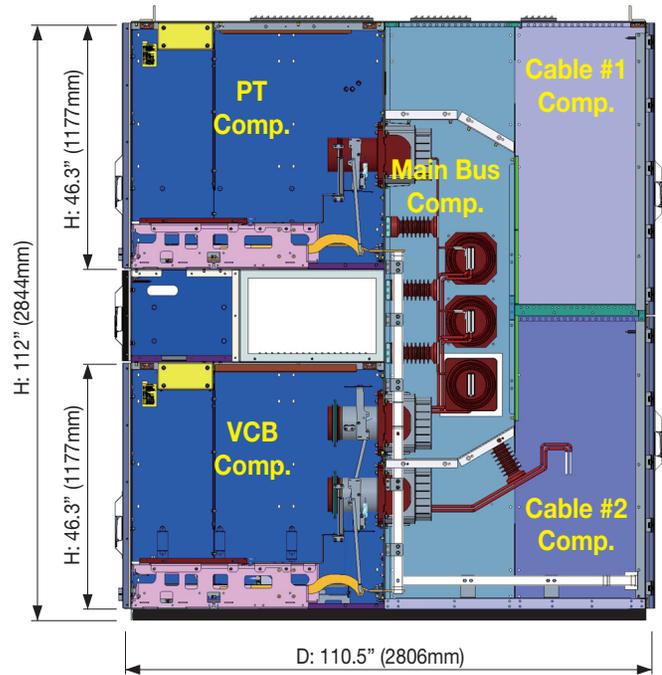
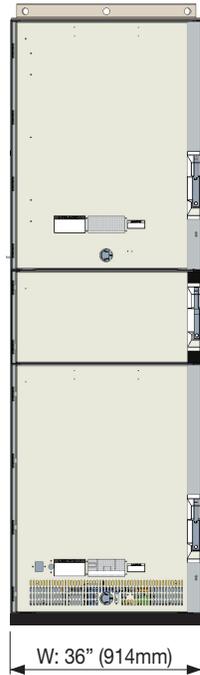
Dimensions and configurations

■ Front view

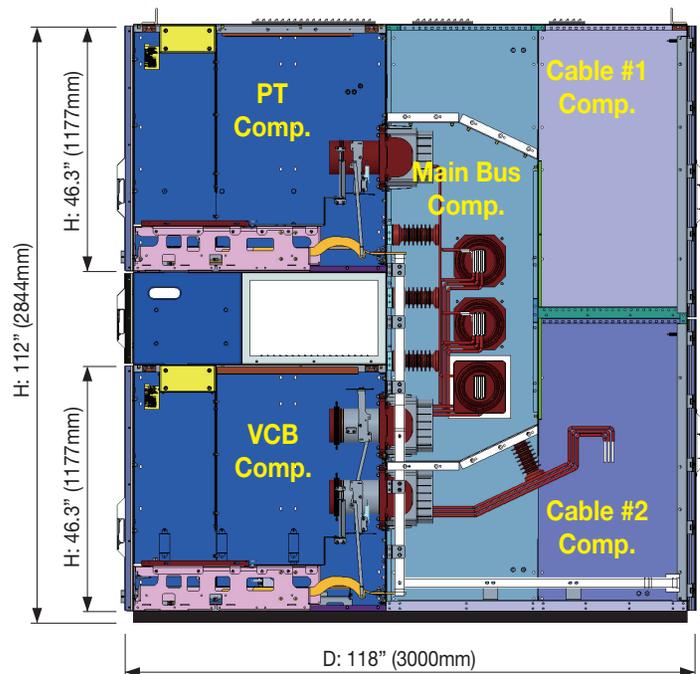
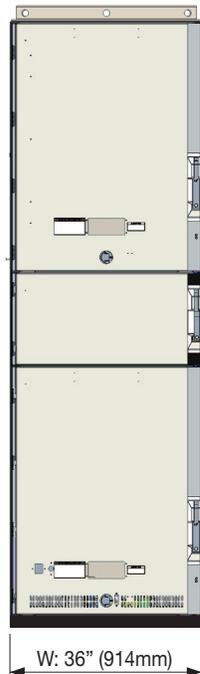
■ Side view

[Unit: inch(mm)]

25kA
2000A
2-High + Mid
LV Comp.
PT/Breaker



31.5kA/40kA
2500A
2-High + Mid
LV Comp.
PT/Breaker

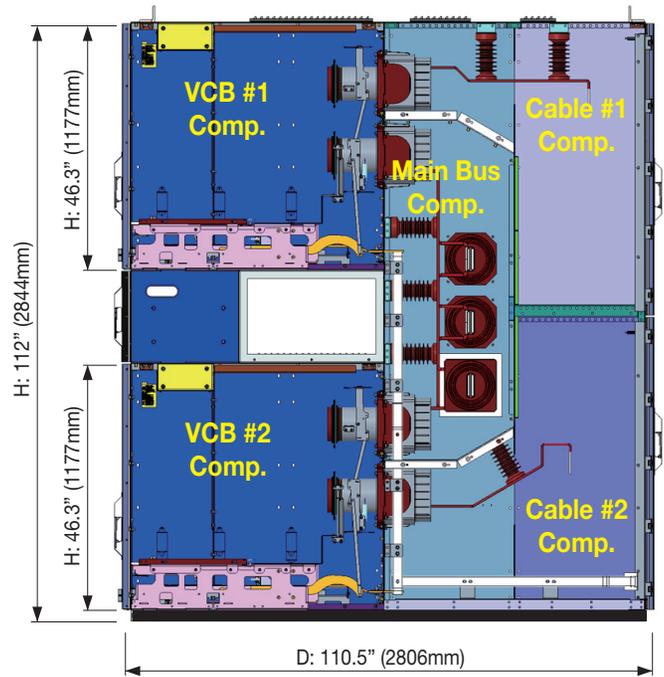
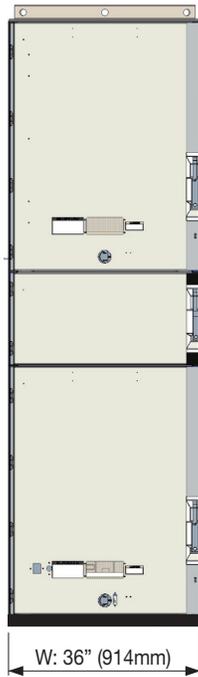


■ Front view

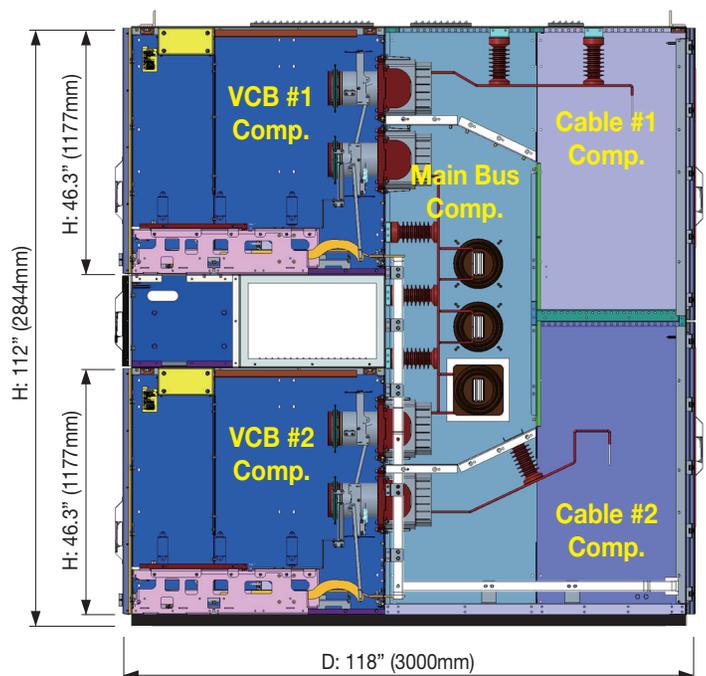
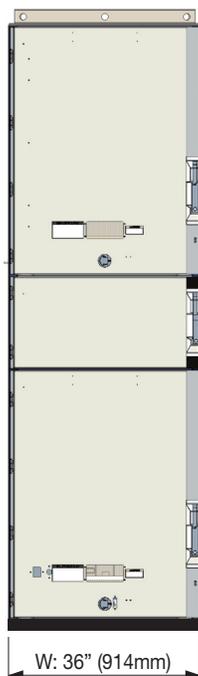
■ Side view

[Unit: inch(mm)]

25kA/31.5kA/40kA
1000 and 1000A
2-High + Mid
LV Comp.
Breaker/Breaker



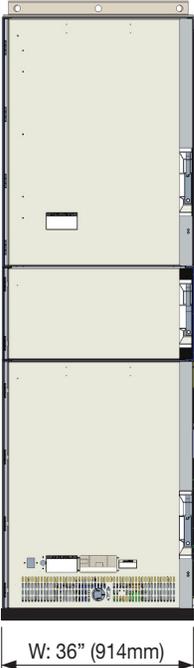
25kA/31.5kA/40kA
1200 and 1200A
2-High + Mid
LV Comp.
Breaker/Breaker



Dimensions and configurations

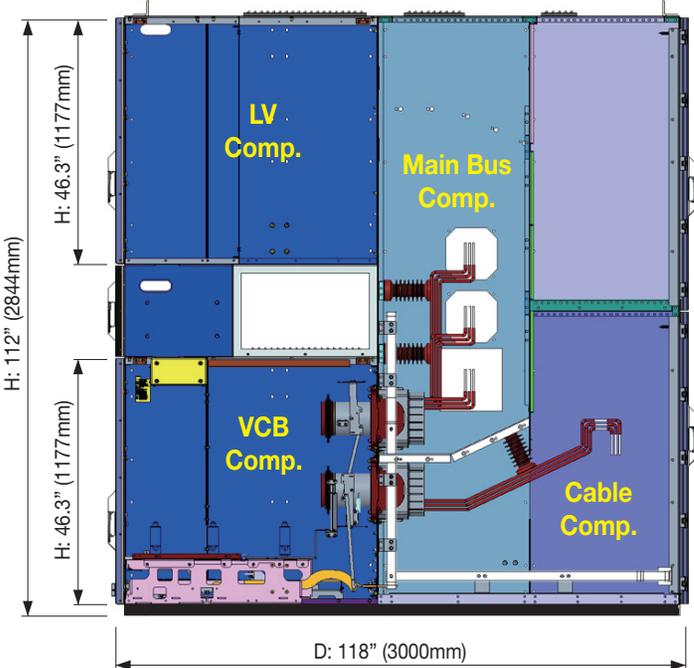
■ Front view

25kA/31.5kA/40kA
2750A
2-High + Mid
LV Comp.
LV/Breaker



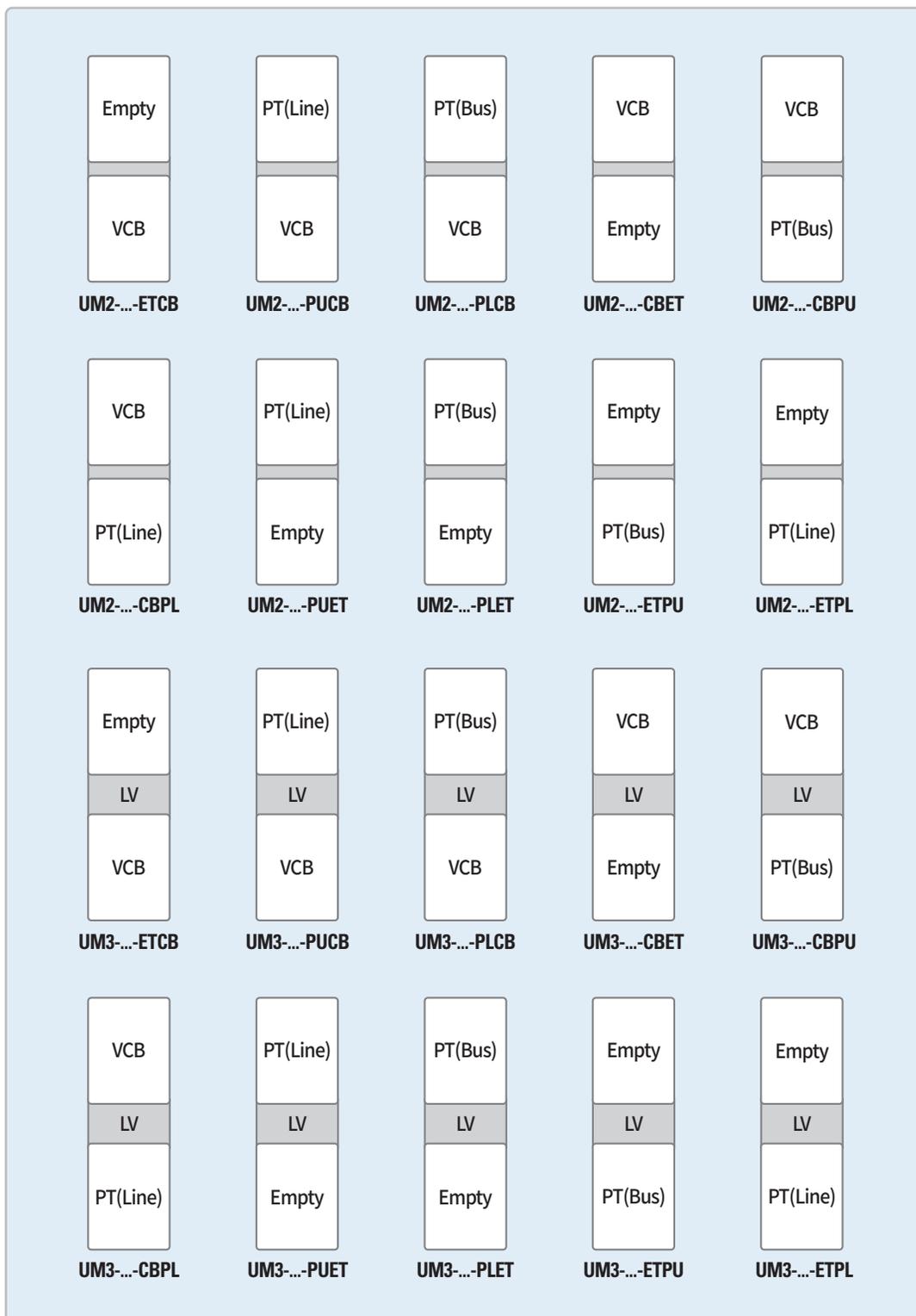
■ Side view

[Unit: inch(mm)]



Available configurations

1200A/2000A/2500A
 2750A Note
 1-VCB

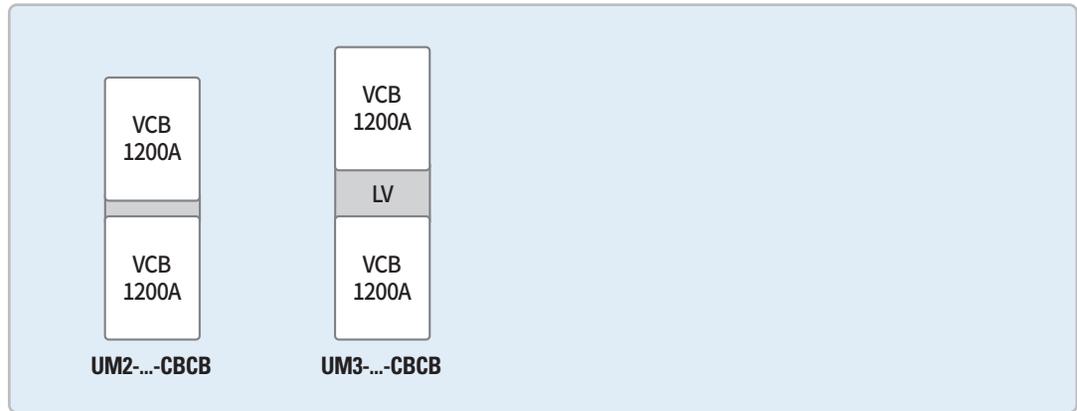


Note: 2750A can only be configured with UM2-...-ETCB.

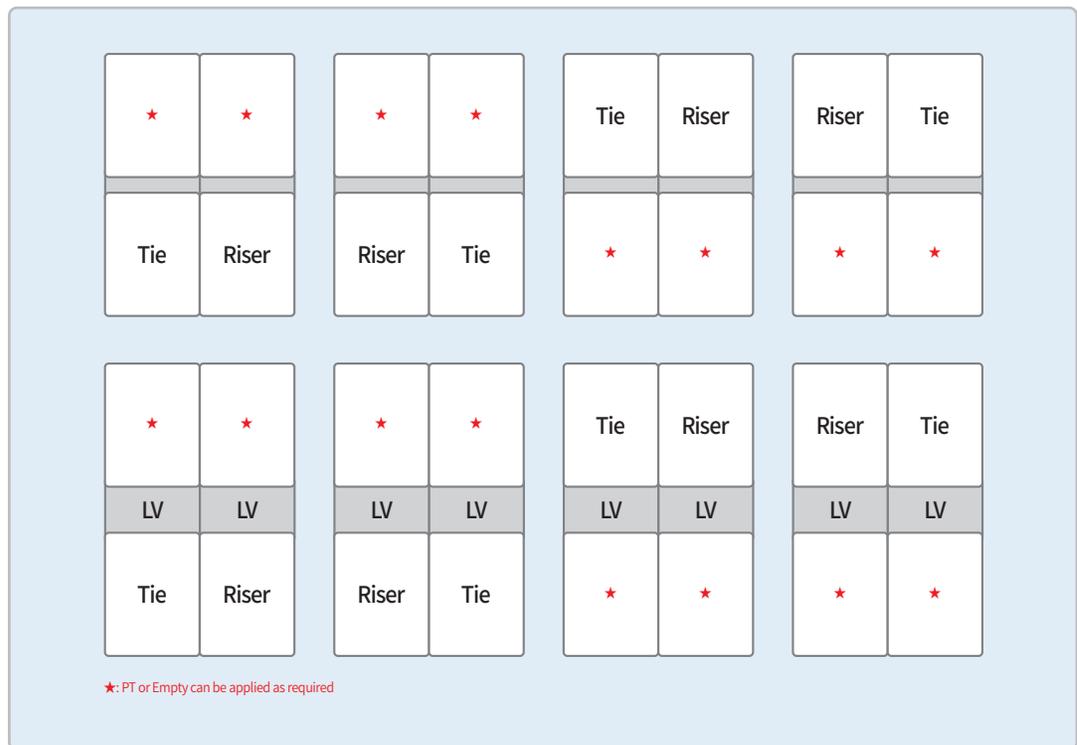
Dimensions and configurations

Available configurations

1200A
2-VCB



Tie and Riser
1-VCB





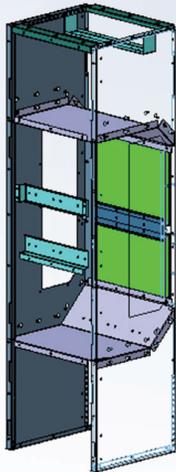
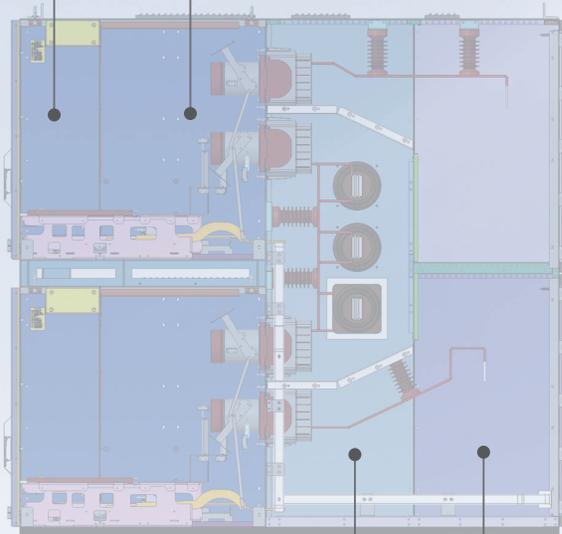
Low voltage compartment

- Sufficient space to test and easily change the internal wiring.
- The wiring duct for top panel connections is made of steel.



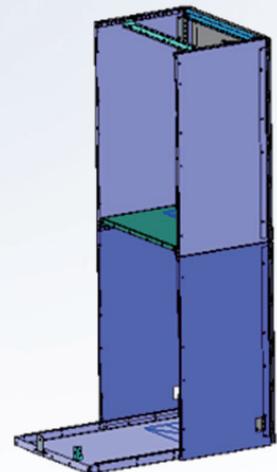
CB compartment

- The C.B. can be drawn in and out without opening the door.
- Viewing window for C.B. inspection
- Solid structure with hinges and lock
- Metal shutter with padlock
- IP cover on the front of the C.B.



Bus compartment

- Independent bus compartment structure designed so that breaker operation does not affect adjacent panels



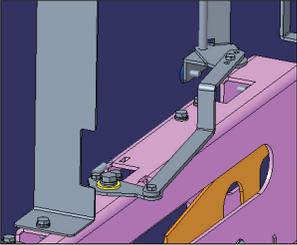
Cable compartment

- Sufficient space for wiring
- Insulation cap for the dielectric of the earthing switch

Accessories

Shutter padlock

The holes to lock the shutters (load and line sides) are in the closed position to enhance safety during VCB maintenance when it is in the drawn-out position.



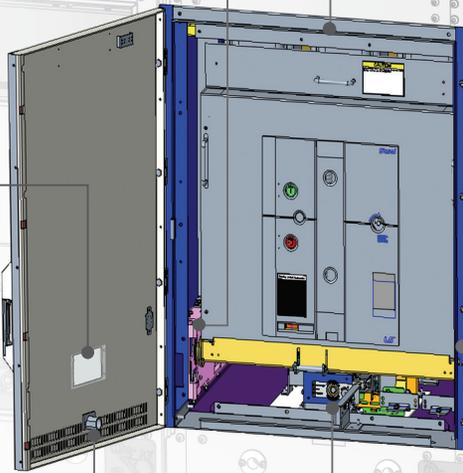
Plug-in interlock

This device prevents the C.B. from disconnecting from the jack terminal when it is in the service position.



Inspection window

This device prevents the C.B. from disconnecting from the jack terminal while in the service position.



Interlocking device between door and C.B.

When the C.B. is in the service position, the operator cannot open the door without first releasing the door interlock.

Draw-in and out device

The C.B. can be drawn in and out with the door closed.

Truck 3-Position withdraw structure

The Truck 3-Position withdraw structure was reviewed in accordance with ANSI standards for Susol VCB (LS VCB).

Solution Power

S38 ANSI Non-Arc-Resistant Metal-Clad Switchgear



Contents

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▪ Dimensions and configurations	47

Ratings and description

Ratings

Type		UM1-38N32D12	UM1-38N32D20	UM1-38N40D12	UM1-38N40D20
Rated voltage	Ur (kV)	38kV			
Rated current	Ir (A)	1200	2000	1200	2000
Phase distance	Inch (mm)	11.8 (300)			
Rated frequency	fr (Hz)	60			
Rated interrupting current	Ik (kA)	31.5		40	
Rated short time current(2sec)	Ik (kA)	31.5		40	
Momentary current	Ip (kA)	82		104	
Rated interrupting time	Cycle	3		3	
AC withstand voltage(60Hz, 1min)	Ud (kV)	80		80	
Impulse withstand voltage(1.2x50µs)	Up (kV)	150		150	
Size (W×H×D)	Inch (mm)	42"×86.6"×118" ^{Note} (1066×2250×3000)			
Applicable standards		ANSI C37.55, IEEE C37.20.2, IEEE C37.20.6 (designed and tested to comply with ANSI and IEEE standards)			

Notes:

1. Contact the factory if a different depth is required (customization available upon request).
2. Depth may be extended or reduced depending on the type of instruments, device options, or the arrangement of incoming/outgoing cables.
3. Depth can be extended up to 137.8 inches (3500mm).

Description

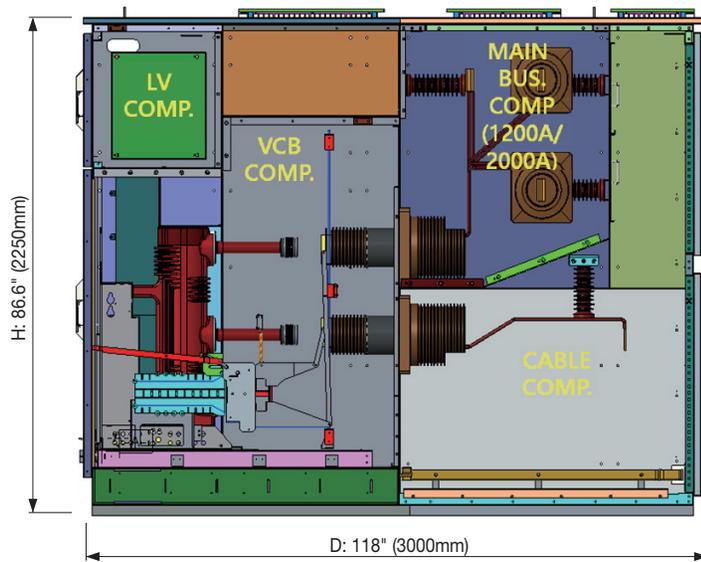
UM	1	38	N	32	D	20
Basic model name	High (Stack)	Voltage	Arc resist.	S.C.STC	Size (wide)	Current
UM UL/ANSI MCSG	1 1High	38 38kV	N Non-Arc Resistance Gear	32 31.5kA 40 40kA	D 42"(1066mm)	12 1200A 20 2000A

Dimensions and configurations

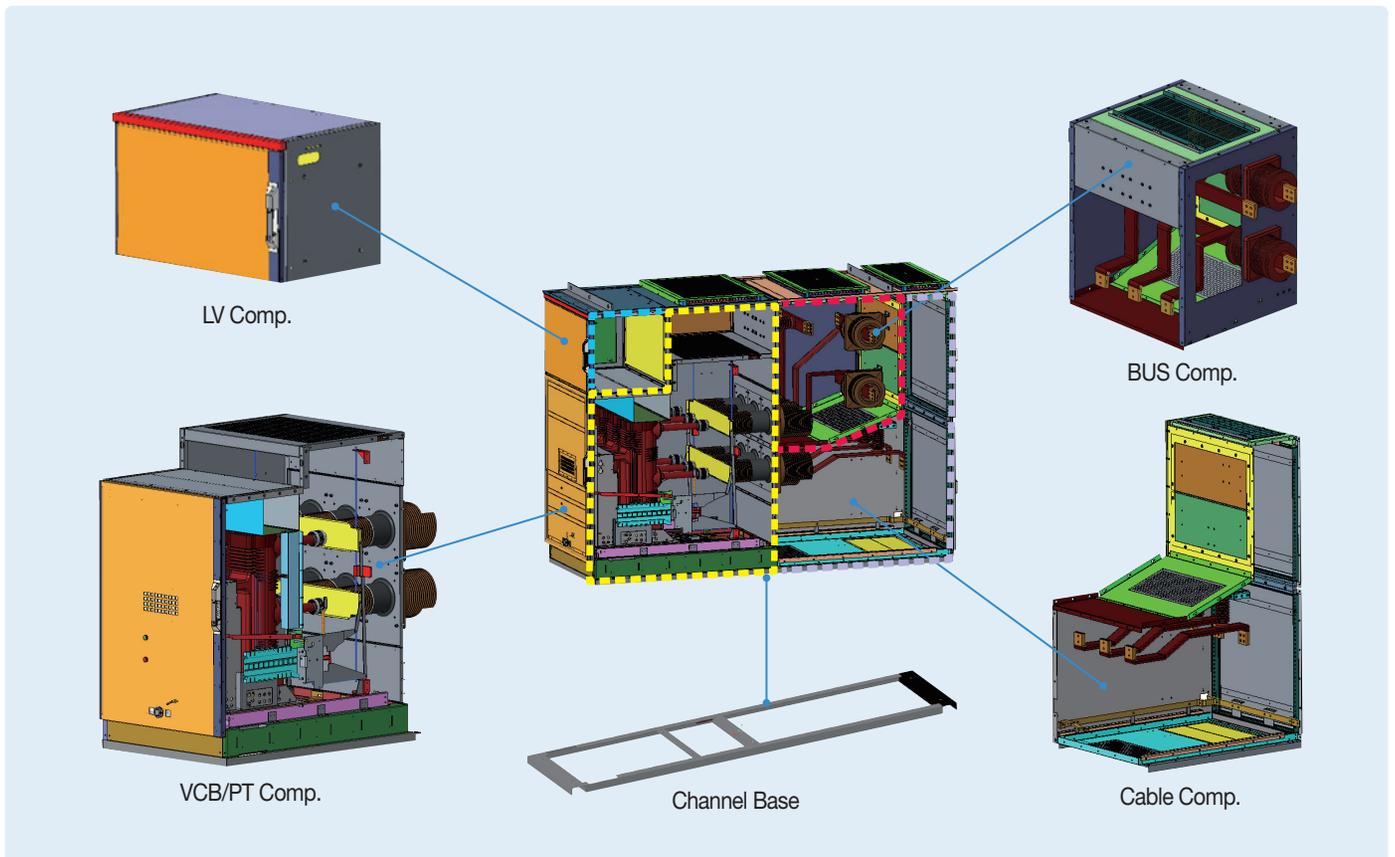
■ Front view



■ Side view



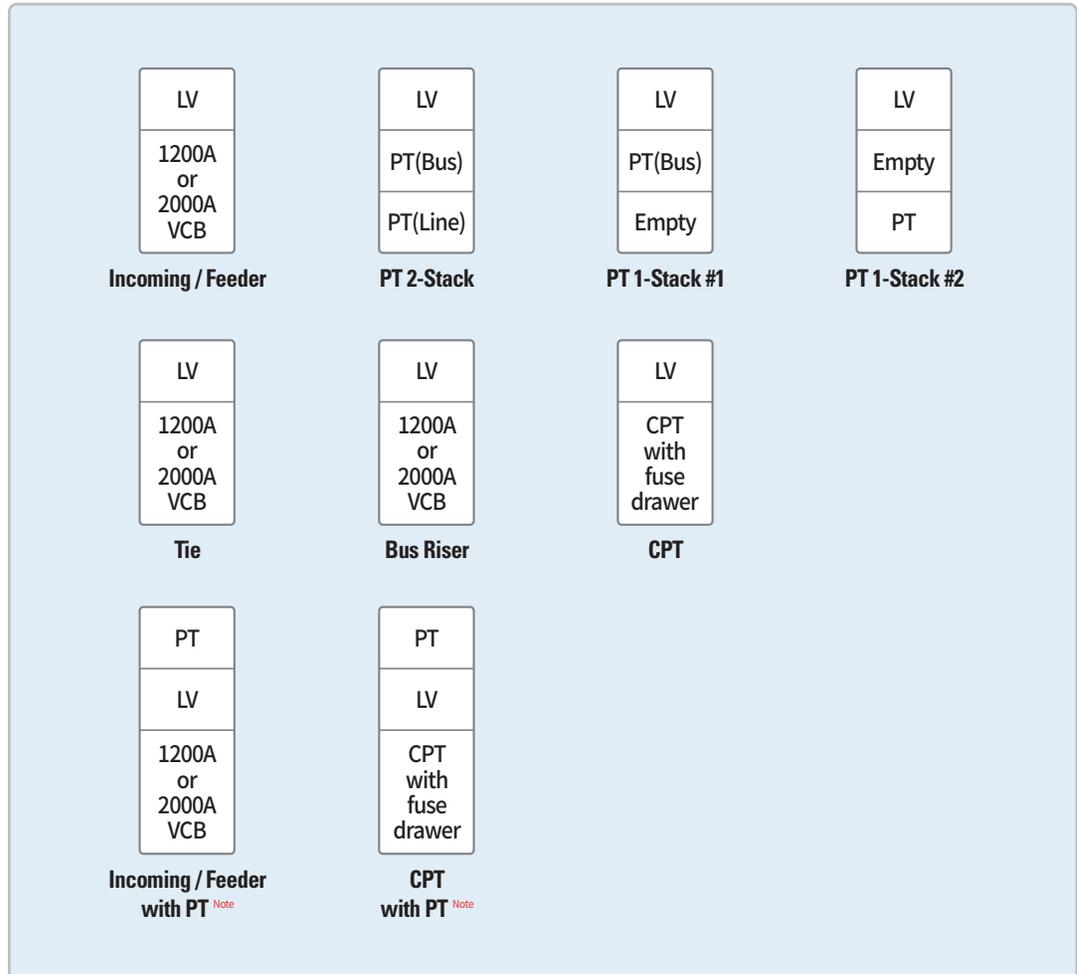
[Unit: inch(mm)]



Dimensions and configurations

Available configurations

1200A/2000A
1-High



Note: The height of this configuration is 122.4" (3110mm).

Solution Power

S5/15 UL Arc-Resistant Metal-Clad Switchgear



Contents

▪ Ratings and description	50
▪ Dimensions and configurations	51
▪ Arc duct	54

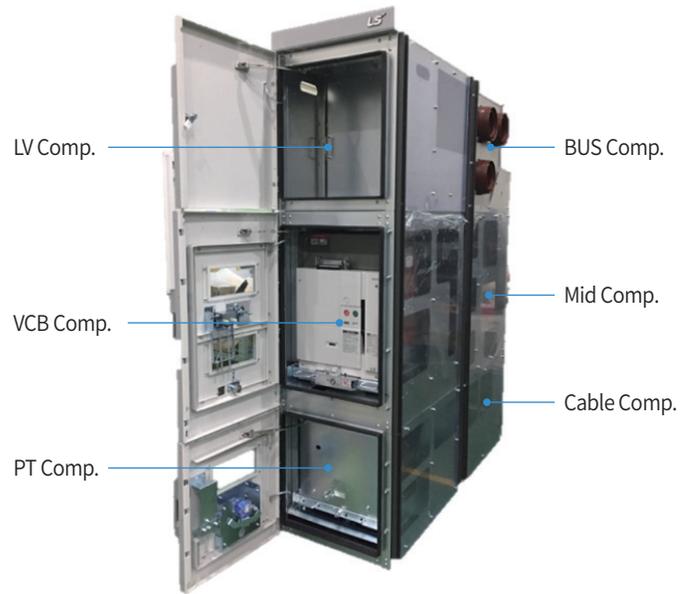
Dimensions and configurations

1200 and 2000A
1-High (Mid VCB)

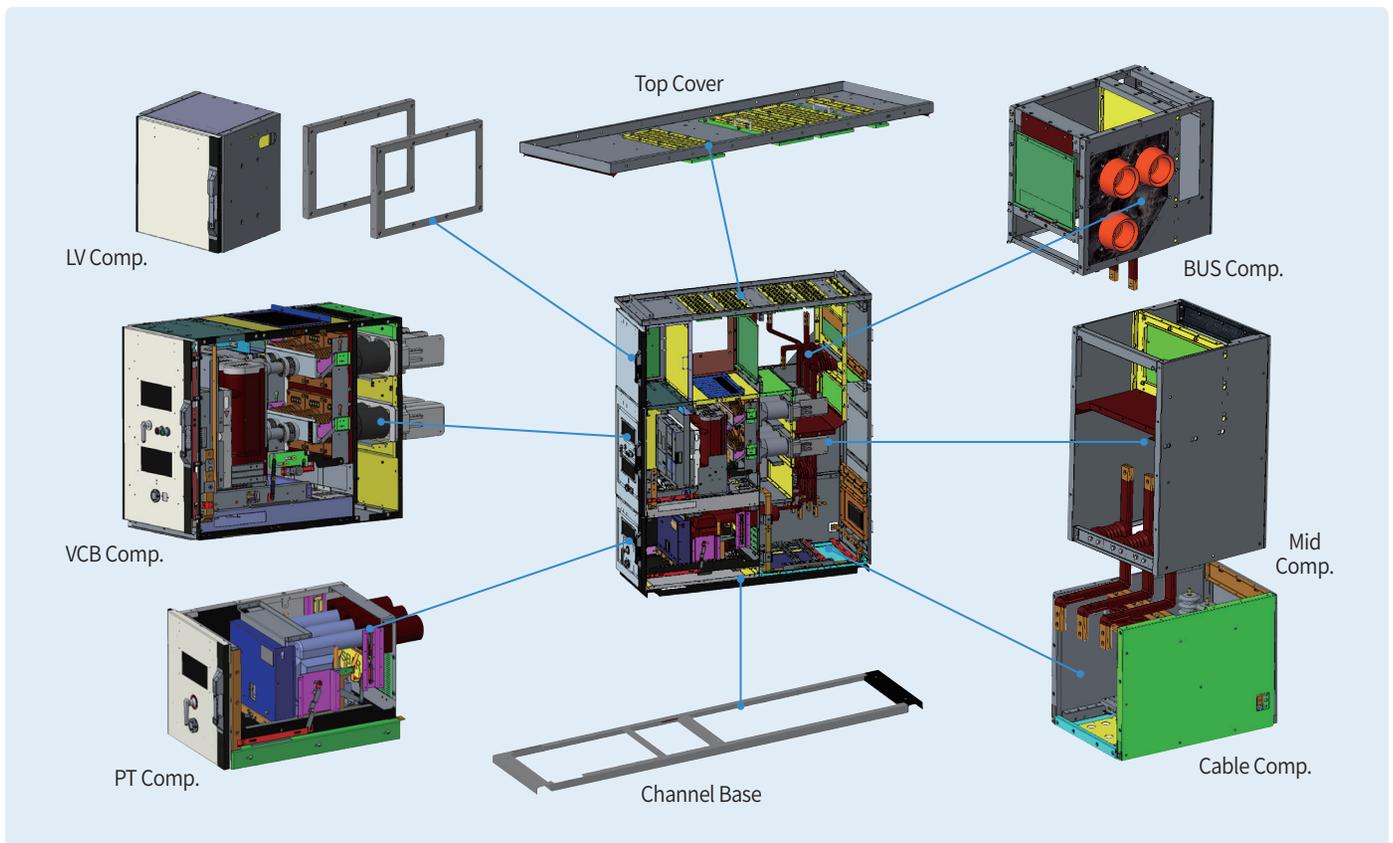
■ Front view



■ Side view



[Unit: inch(mm)]



Dimensions and configurations

1200 and 2000A
2-High + Mid LV Comp.

■ Front view

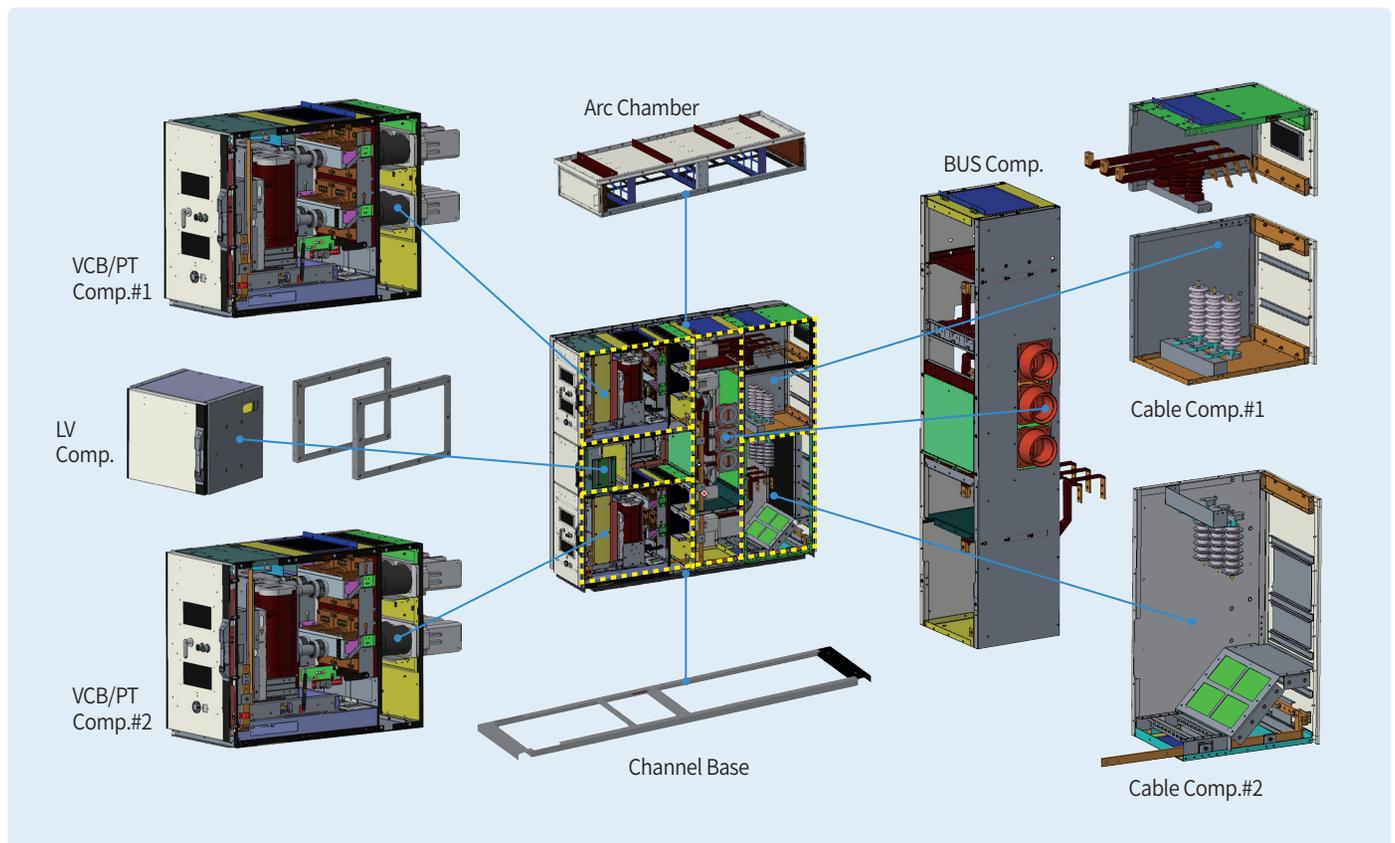


■ Side view

[Unit: inch(mm)]

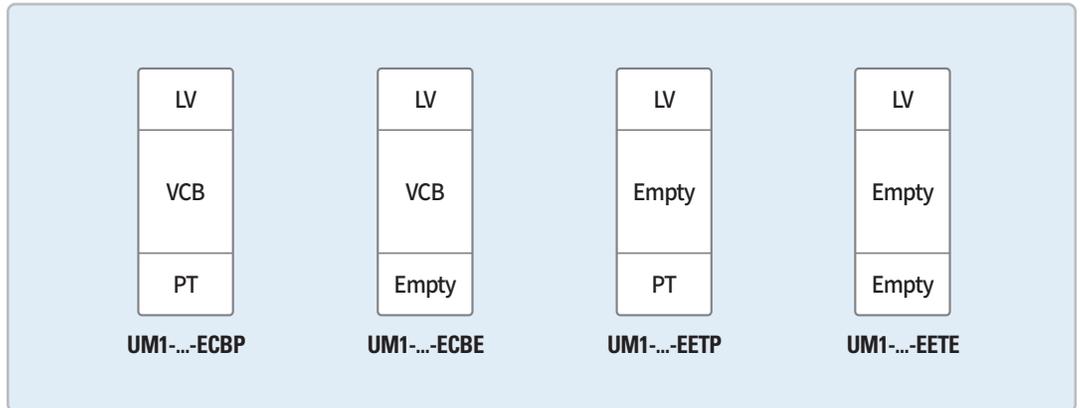


*The side cover of this switchgear is for demonstration purposes only and may differ from the actual product.

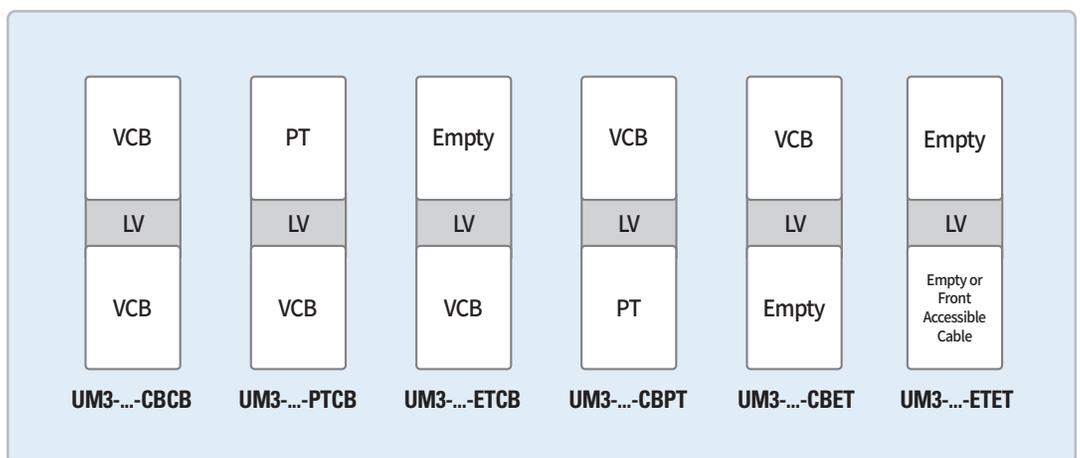


Available configurations

1200 and 2000A
1-High (Mid VCB)



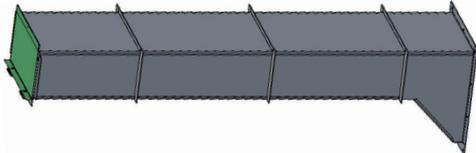
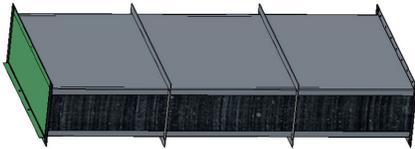
1200 and 2000A
2-High + Mid
LV Comp.



Arc duct

Arc duct for S5/15 UL AR

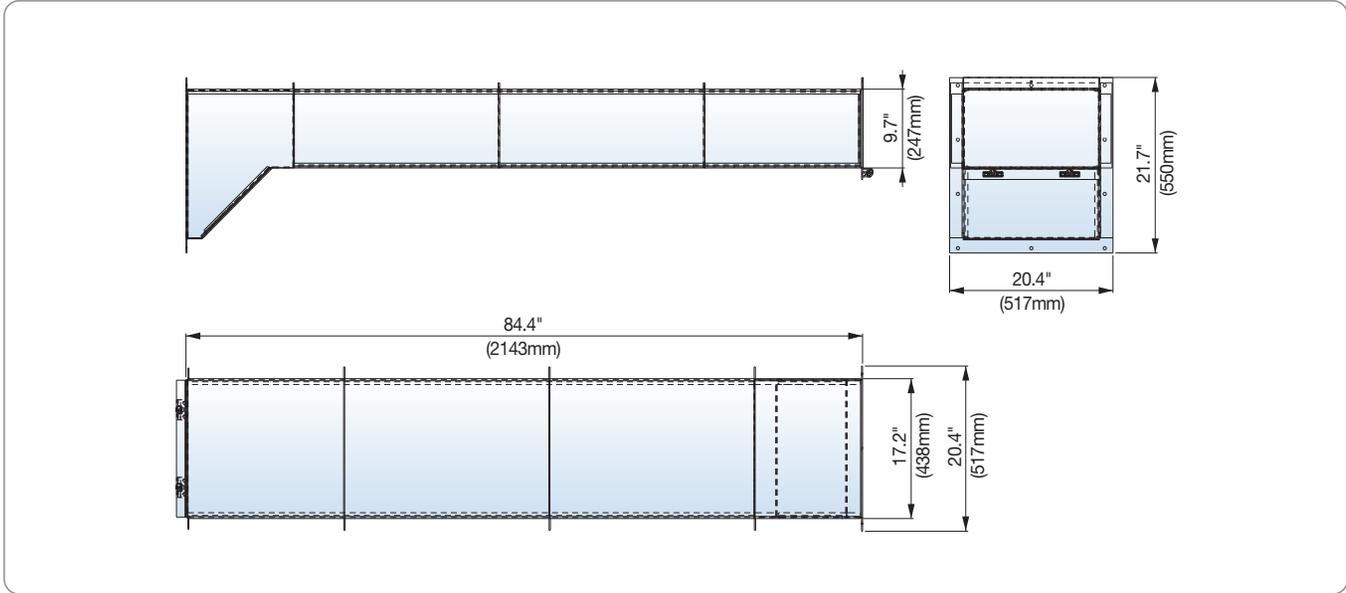
- Integral and modular assembly type
- Easy assembly with extendable structure
- Few parts for quick assembly

No.	Item code	Product name	Picture
1	53524121001	DUCT ASS'Y, 1H, FRONT (1High)	
2	53524121002	DUCT ASS'Y, 1H, BACK (1High)	
3	53524122001	DUCT ASS'Y, DUCT, 2H (2High)	

Size

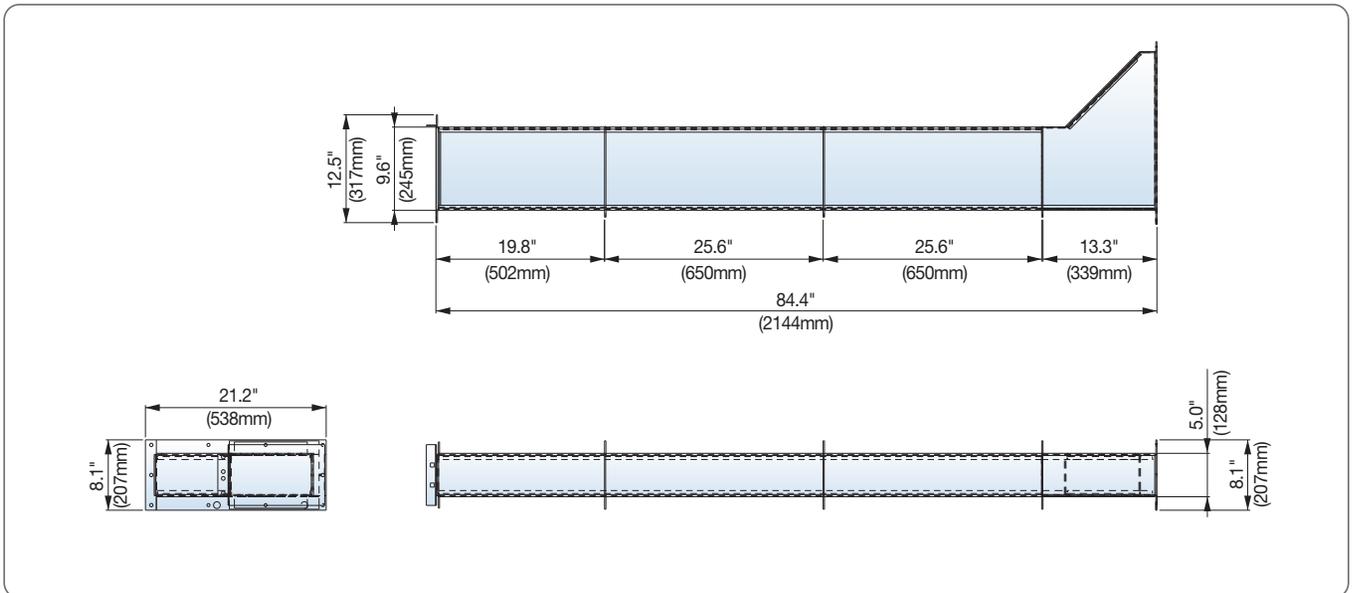
DUCT ASS'Y, 1H, FRONT

[Unit: inch(mm)]

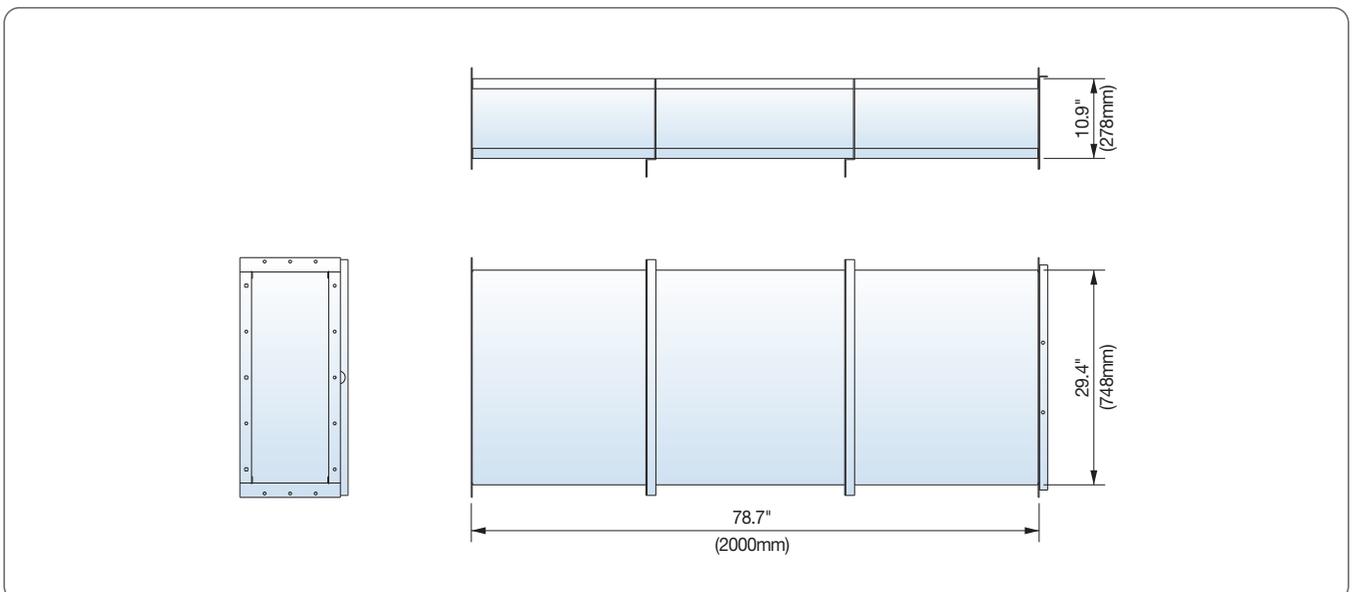


[Unit: inch(mm)]

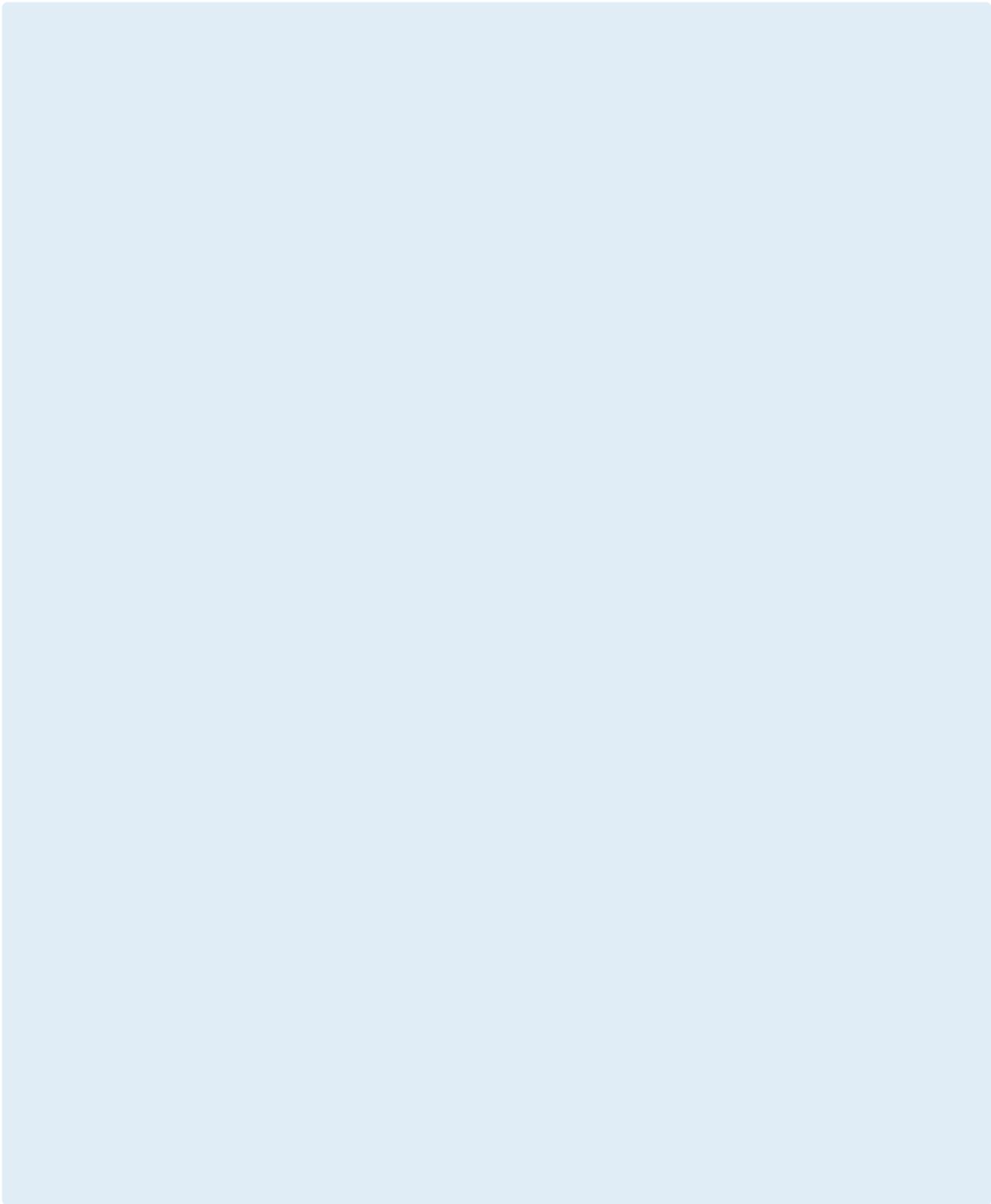
DUCT ASS'Y, 1H, BACK



DUCT ASS'Y, DUCT, 2H



Memo



Solution Power

S38 ANSI Arc-Resistant Metal-Clad Switchgear



Contents

▪ Ratings and description	58
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▪ Arc duct	61

Ratings and description

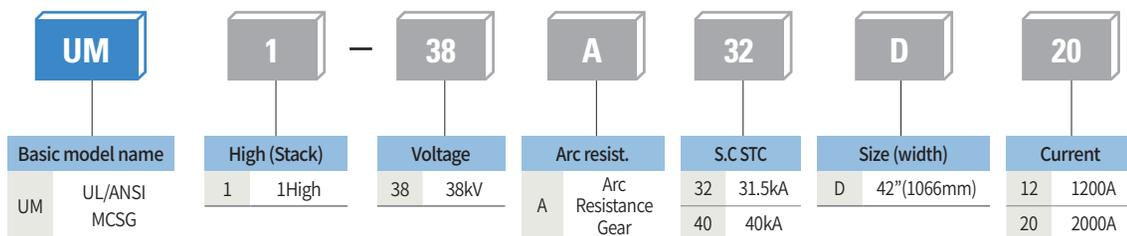
Ratings

Type		UM1-38A32D12	UM1-38A32D20	UM1-38A40D12	UM1-38A40D20
Rated voltage	Ur (kV)	38			
Rated current	Ir (A)	1200	2000	1200	2000
Phase distance	Inch (mm)	11.8 (300)			
Rated frequency	fr (Hz)	60			
Rated interrupting current	Ik (kA)	31.5		40	
Rated short time current(2sec)	Ik (kA)	31.5		40	
Momentary current	Ip (kA)	82		104	
Rated interrupting time	Cycle	3		3	
AC withstand voltage(60Hz, 1min)	Ud (kV)	80		80	
Impulse withstand voltage(1.2x50µs)	Up (kV)	150		150	
Size (W×H×D)	Inch (mm)	42"×108.3 ^{**} ×118" ^{Note} (1066×2750*×3000) [*] With arc duct (height 19.7")			
Applicable standards		ANSI C37.55, IEEE C37.20.2, IEEE C37.20.6, IEEE C37.20.7 (designed and tested to comply with ANSI and IEEE standards)			

Notes:

1. Contact the factory if a different depth is required (customization available upon request).
2. Depth may be extended or reduced depending on the type of instruments, device options, or the arrangement of incoming/outgoing cables.
3. Depth can be extended up to 137.8 inches (3500mm).

Description



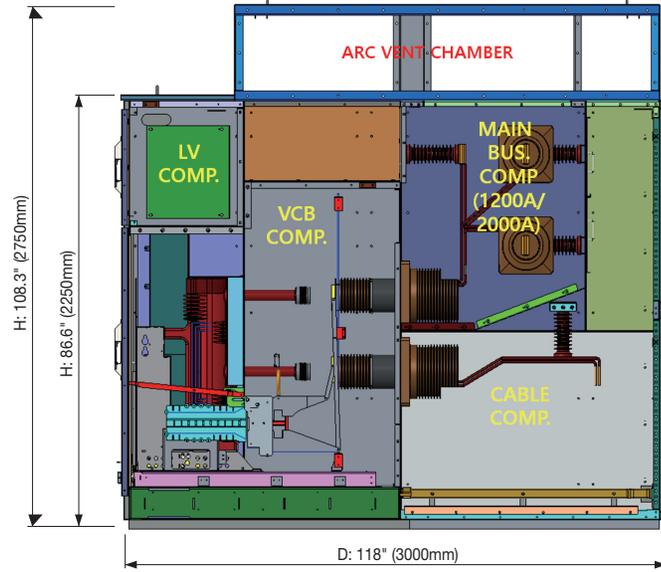
Dimensions and configurations

UL/ANSI MV MCSG

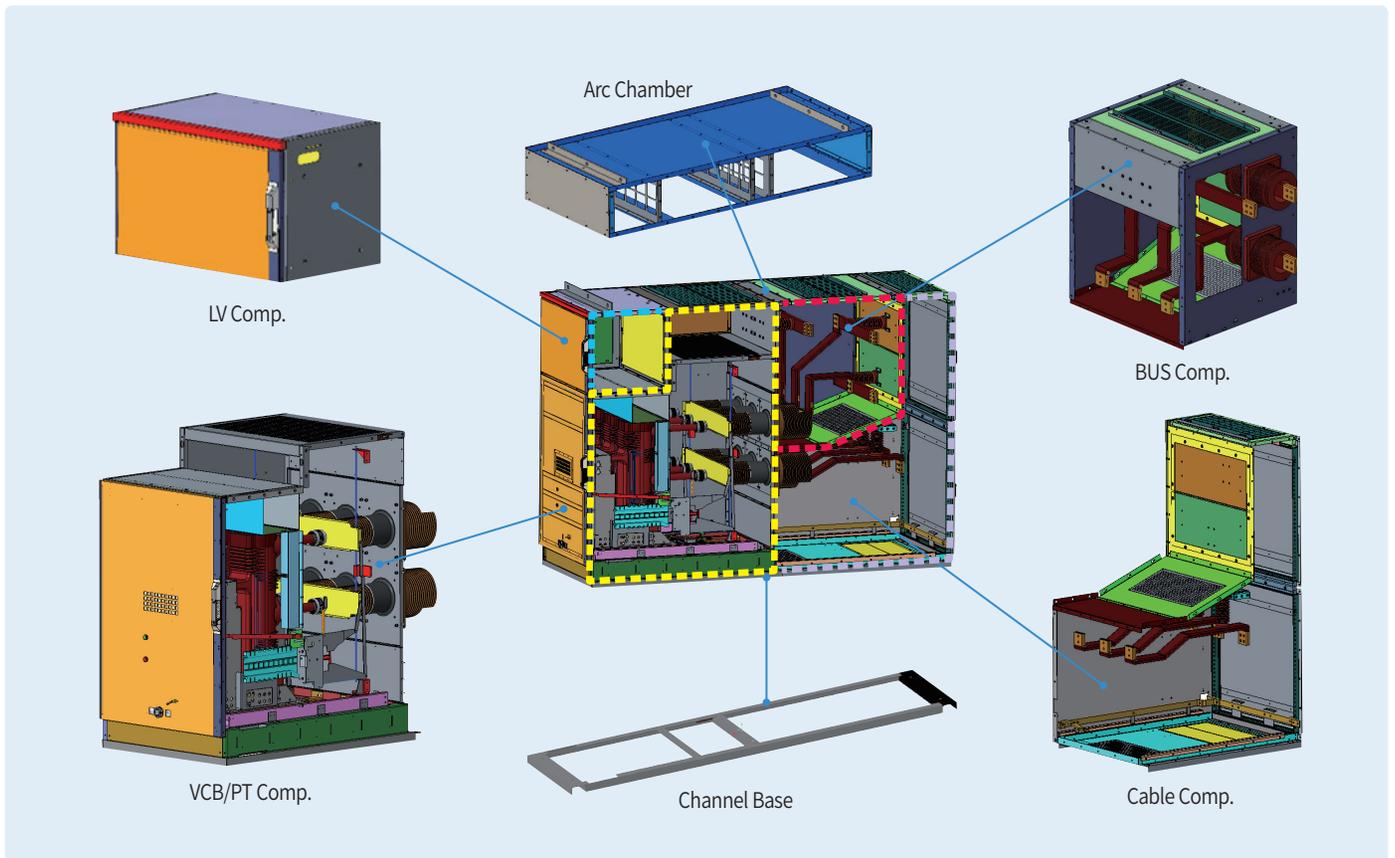
■ Front view



■ Side view



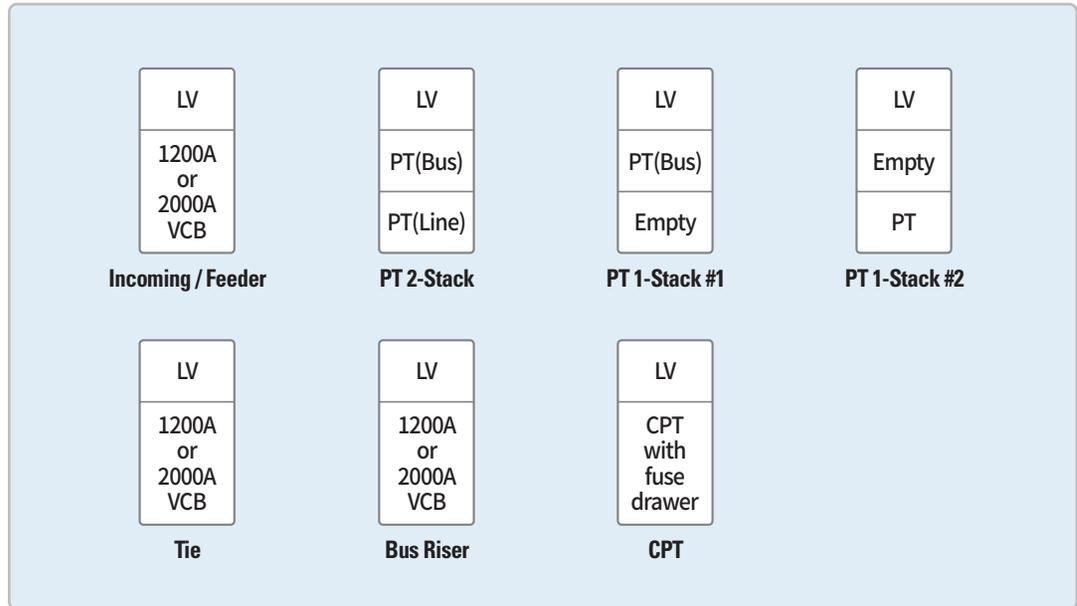
[Unit: inch(mm)]



Dimensions and configurations

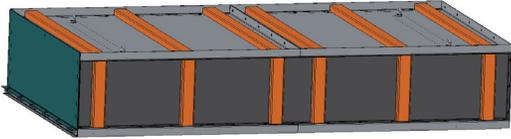
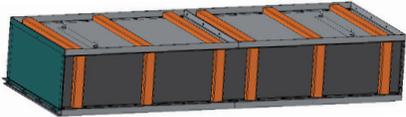
Available configurations

1200A/2000A
1-High



Arc duct for S38 ANSI AR

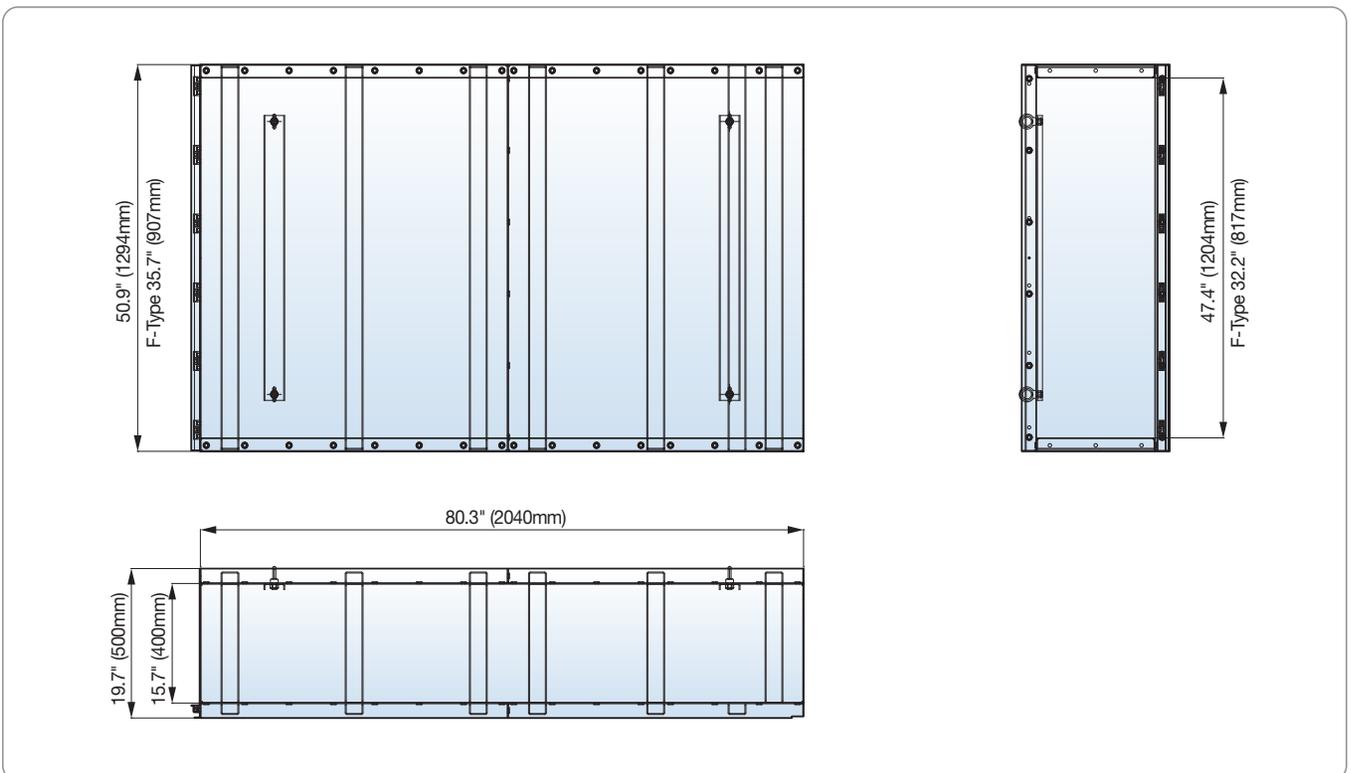
- Integral and modular assembly type
- Easy assembly with extendable structure
- Few parts for quick assembly

No.	Drawing No.	Product name	Picture
1	W44324275	DUCT ASS'Y, REAR	
2	W44324293	DUCT ASS'Y, FRONT	

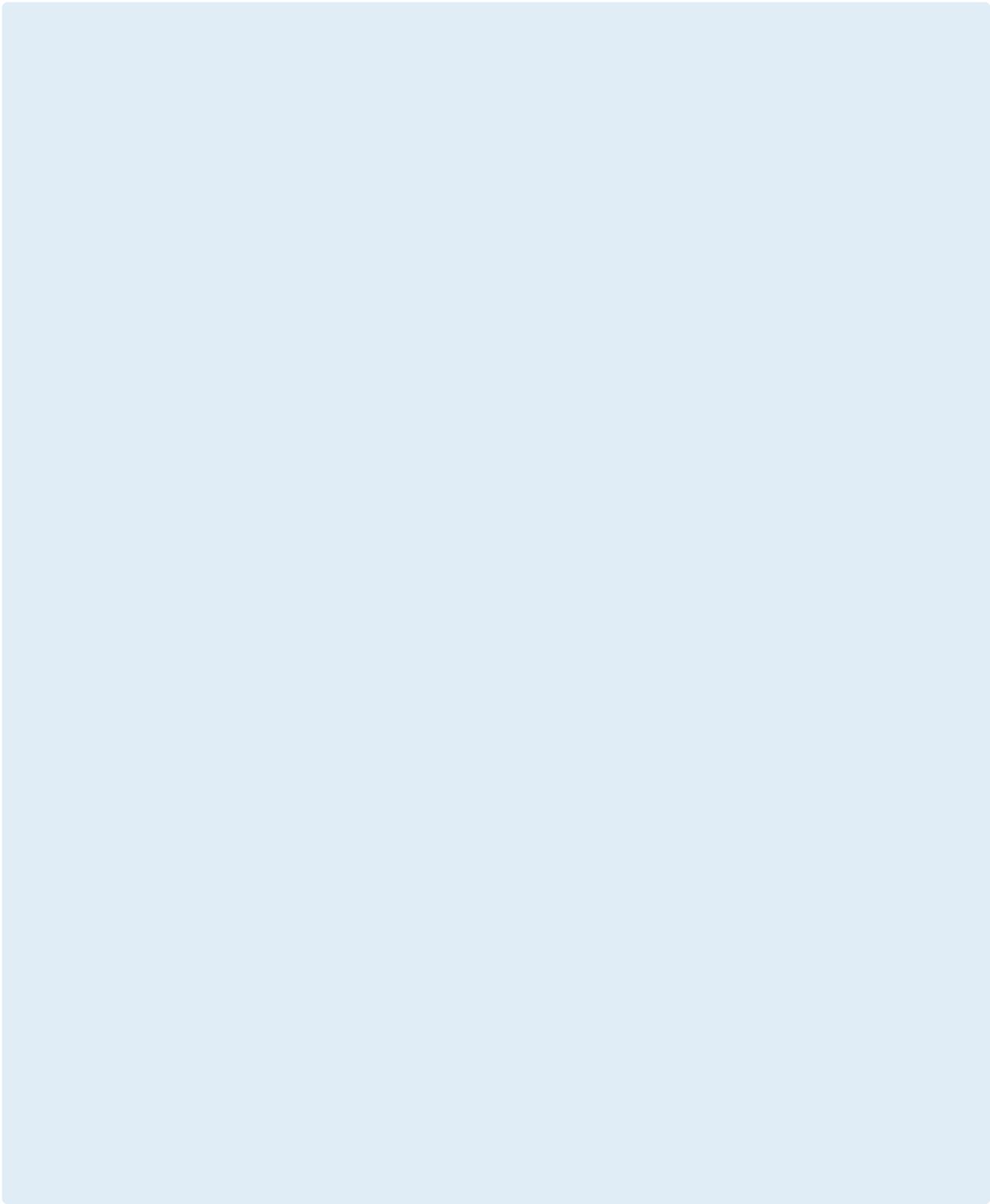
Size

DUCT ASS'Y (REAR, FRONT)

[Unit: inch(mm)]



Memo



Susol VCB and CB compartment



Contents

▪ Susol VCB	64
▪ External structure of VCB	68
▪ Overview of Susol VCB	70

Susol VCB

The Vacuum Circuit Breaker (VCB) is designed for medium voltage distribution line installations. This solution protects systems and equipment from abnormal current (overcurrent, short circuit or ground fault). In application, a separate external relay sends a signal to the vacuum interrupter located inside the VCB to break the circuit, protecting connected loads and increasing workplace safety.

Susol VCB solutions

- Actively meets customers' need for breakers with high interrupting capacity and large current due to integration and increase of load capacity.
- Leads worldwide trend of diversification in medium voltage distribution lines.
- Increased reliability of the circuit breaker's temperature characteristics for durability in industrial and commercial sites.

Premium products that improve convenience of medium voltage switchgear configuration.

- Full line-up with models consisting of high interrupting capacities and large current ratings.
- Serves as a main structure with reliable application.
- A variety of accessories are available, meeting a wide range of project or system requirements.

Susol VCBs are suitable for use as the main circuit breaker to protect key installations in device industries, power plants, commercial buildings, marine sites and vessels, transportation infrastructure, substations and large-scale power distribution.



▶ Full line-up of high/middle/low VCB models.

Voltage	Interrupting current	Rated current
4.76/15kV	25/31.5/40/50kA	1200/2000/3000/4000A
27kV	25/31.5/40kA	1200/2000/2500/2750A
38kV	31.5/40kA	1200/2000/3000A

▶ Main circuit structure with high reliability.

- Maximized the durability and reliability of the main circuit contactors.
- Strong structure for the temperature rise (Natural cooling system).

▶ Convenience of switchgear configuration and a variety of accessories.

- CB compartment: Metal isolation is implemented to minimize damage and ensure safety. The convenience of switchgear design is achieved by its modular style.
- A variety of accessories: UVT, Plug Interlock, Key lock, Temperature Sensor, MOC, TOC.
- Maximizing compatibility with existing products through the dualistic deployment of phases and compact models.

※ Type testing is complete for all models according to latest standard, IEEE Std C37.09, IEEE Std C37.20.2, ANSI C37.54, ANSI C37.55

Rated voltage	In(A)	Isc[kA]	4.76/15kV				27kV			38kV	
			25	31.5	40	50	25	31.5	40	31.5	40
1200											
2000											
2500											
2750											
3000											
4000											

□ : UL certificated
 ⊗ : Not developed

Among the UL certificated product

Fixed type	Draw-out type
	



CB Compartment

Convenience in building switchgears

- CB compartment structure: H type cradle
- Metal isolation is implemented to minimize damage and ensure safety
- Easy switchgear build



4.76/15/27/38kV 25/31.5/40/50kA

- Metal isolation is implemented to minimize damage and ensure safety.
- Convenience of operation by racking device in SWGR
 - Operator is able to withdraw CB without door open
 - Mechanically CB position indicator on the front side of SWGR
- Equipped with safety devices and accessories
 - Metallic shutter
 - Door interlock
 - Motorized racking system (4.76/15/27kV UVM/UVH Only)
 - Key lock on racking operation
 - Auto-connection of control wiring
- Convenience assembly of switchgear
 - Module structure enhance productivity





**CB
Compartment**

**LV
Compartment**

**PT
Compartment**

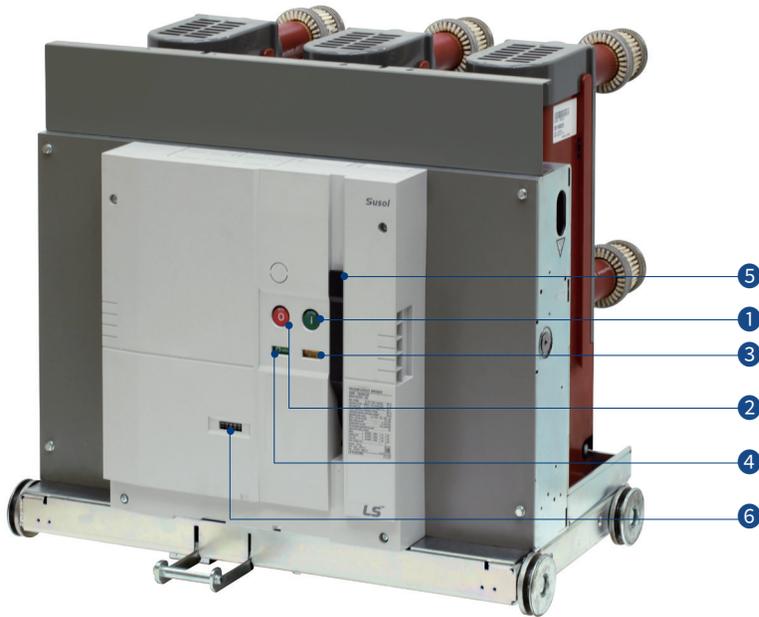
Accessories of CB compartment (H type cradle)

- MOC (Mechanism Operated Cell S/W)
- TOC (Truck Operated Cell S/W)
- Shutter Padlock
- Key lock (Kirk-key applicable)

External structure of VCB

UVL/UVM type

Front side



Components

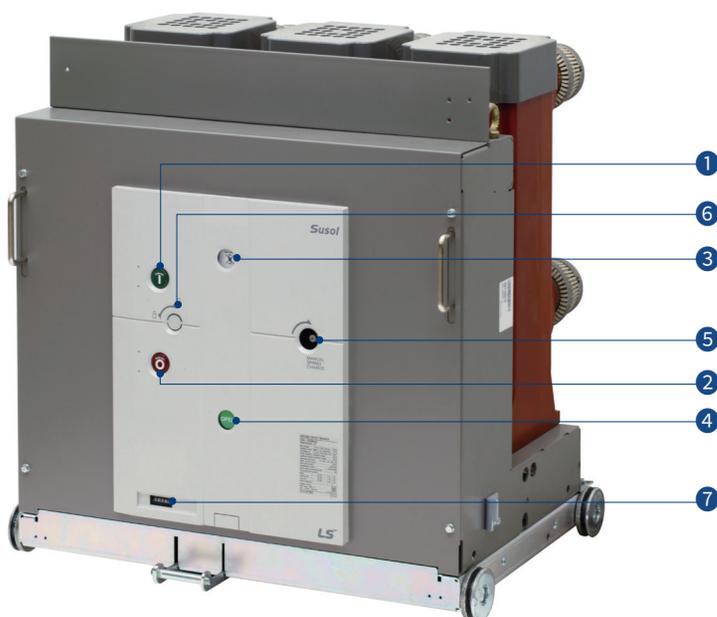
- ① CLOSE Button
- ② OPEN Button
- ③ Charge/Discharge Indicator
- ④ CLOSED/OPEN Indicator
- ⑤ Manual Charging Handle
- ⑥ Operation Counter

Back side



UVH type

Front side



Components

- 1 CLOSE Button
- 2 OPEN Button
- 3 Charge/Discharge Indicator
- 4 CLOSED/OPEN Indicator
- 5 Manual Charging Handle
- 6 Key Lock
- 7 Operation Counter

Back side



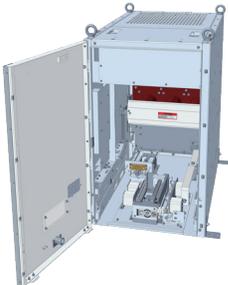
Overview of Susol VCB

Overview of VCB ratings

Rated voltage	4.76kV				15kV				27kV			38kV		
	I _r [A] \ I _{sc} [kA]	25	31.5	40	50	25	31.5	40	50	25	31.5	40	31.5	40
1200	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	ANSI type test	ANSI type test
2000	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	ANSI type test	ANSI type test
2500	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	UL certified	UL certified	UL certified	Not available	Not available	
2750	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	UL certified	UL certified	UL certified	Not available	Not available	
3000	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	Not available	Not available	Not available	ANSI type test	ANSI type test	
4000	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	UL certified	Not available	Not available	Not available	Not available	Not available	

- : UVL/UVM-05/15 UL certified
- : UVM-27 UL certified
- : UVH-05/15 UL certified
- : UVH-27 UL certified
- : UVH-38 ANSI type test
- : Not available

Overview of VCB and cradle configuration

Version	Fixed type	Draw-out type (Draw In/Out)		
Cradle	-	L	C	H
Appearance				
Applicable CB type	<ul style="list-style-type: none"> • UVL-05/15 • UVM-05/15/27 • UVH-05/15/27/38 	<ul style="list-style-type: none"> • UVL-05/15 • UVM-05/15/27 • UVH-05/15/27 	<ul style="list-style-type: none"> • UVM-05/15/27 • UVH-05/15/27 	<ul style="list-style-type: none"> • UVM-05/15/27 • UVH-05/15/27/38
Description	<ul style="list-style-type: none"> • No cradle, Fixed 	<ul style="list-style-type: none"> • Economical cradle for MCSG 	<ul style="list-style-type: none"> • Compact type CB Compartment *Shorter depth than H type 	<ul style="list-style-type: none"> • H type CB compartment

Devices and Accessories

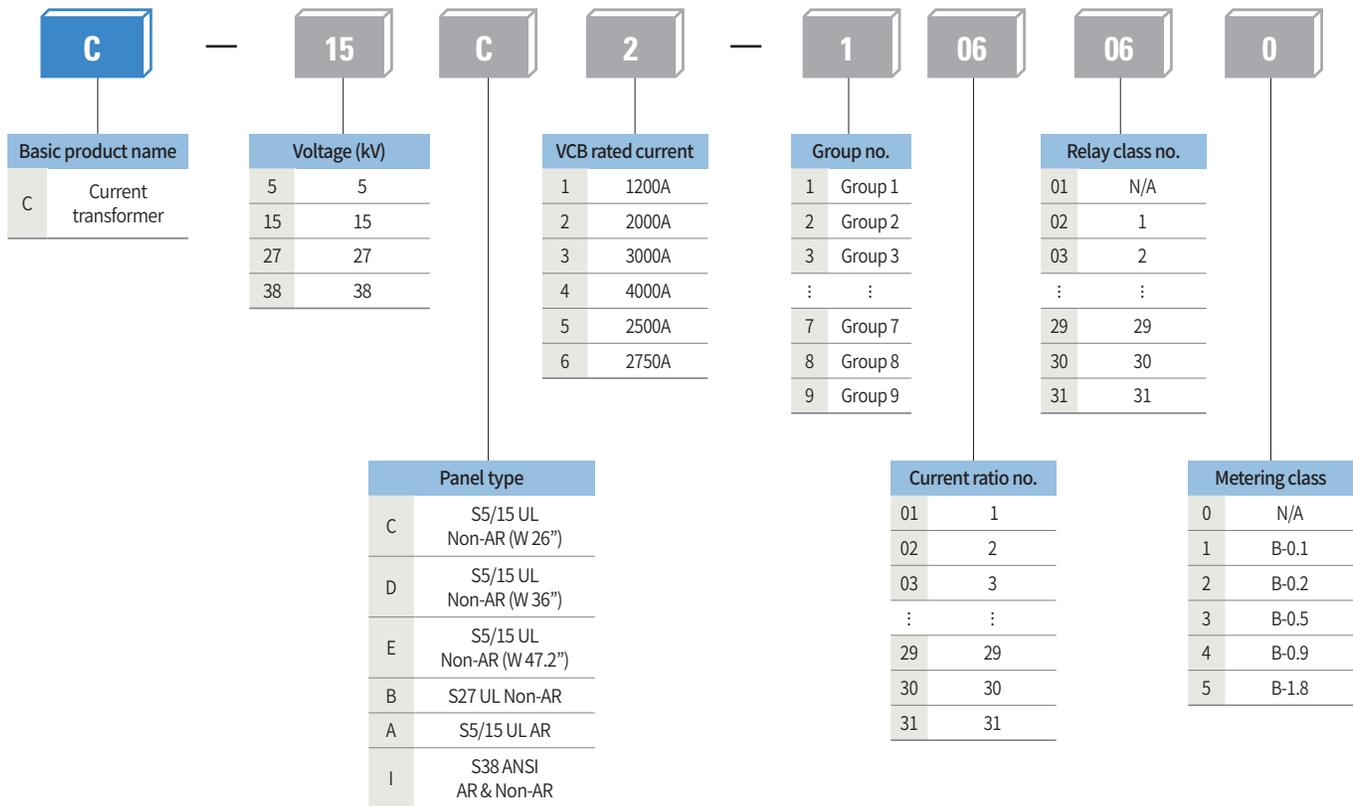


Contents

▪ Current transformer	72
▪ Voltage transformer	96
▪ Ground & test device	102
▪ Accessories	106
▪ Outdoor enclosure	114

Current transformer

Description



Ordering example 1)

- For 15kV 1200A Non-AR MCSG
- Panel width : 26"
- 1-Core
- Current ratio : 200/5A
- Relay class : C10
 - ▶ C-15C1-107070

Ordering example 2)

- For 15kV 2000A Non-AR MCSG
- Panel width : 36"
- 2-Core
- Current ratio: 500/5/5A
- Relay class: C80
- Metering class: 0.6/0.6B0.5
 - ▶ C-15D2-413133

Ordering example 3)

- For 15kV 4000A Non-AR MCSG
- Panel width : 47.2"
- 2-Core
- Current ratio: 1200/5/5A
- Metering class: 0.3/0.3B1.8
 - ▶ C-15E4-520005

Ordering example 4)

- For 27kV 1200A Non-AR MCSG
- 1-Core
- Current ratio : 1500/5A
- Relay class : C300
 - ▶ C-27B1-221210

Ordering example 5)

- For 27kV 2000A Non-AR MCSG
- 2-Core
- Current ratio : 3000/5/5A
- Relay class : C200
- Metering class: 0.3B0.5
 - ▶ C-27B2-426263

Ordering example 6)

- For 15kV 2000A AR MCSG
- 2-Core
- Current ratio : 1000/5/5A
- Relay class : C50
- Metering class: 0.3B0.5
 - ▶ C-15A2-413133

* Recommended current transformer ratio is based on design of MCSG according to IEEE C37.20.2, clause 6.2

CT for S5/15 UL Non-AR (W 26")

Model: UL-LSC-CON7 (C-5C1/2 or C-15C1/2)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 3000 : 5	1.0

UL-LSC-CON7 Selecting and ordering data

Group 1

Relay or Metering 1-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	50:5	-		4.8		-		-		-		-
2	75:5	-		2.4		4.8		-		-		-
3	100:5	-		2.4		2.4		4.8		-		-
4	120:5	-		1.2		2.4		4.8		4.8		-
5	125:5	-		1.2		2.4		4.8		4.8		-
6	150:5	C10		1.2		1.2		2.4		4.8		-
7	200:5	C10		0.6		1.2		1.2		2.4		-
8	250:5	C10		0.6		0.6		1.2		2.4		2.4
9	300:5	C10		0.3		0.6		1.2		1.2		2.4
10	350:5	C20		0.3		0.6		0.6		1.2		2.4
11	400:5	C20		0.3		0.3		0.6		1.2		1.2
12	450:5	C30		0.3		0.3		0.6		1.2		1.2
13	500:5	C30		0.3		0.3		0.6		0.6		1.2
14	600:5	C40	OR	0.3	OR	0.3	OR	0.3	OR	0.6	OR	0.6
15	700:5	C50		0.3		0.3		0.3		0.3		0.6
16	750:5	C50		0.3		0.3		0.3		0.3		0.6
17	800:5	C60		0.3		0.3		0.3		0.3		0.6
18	900:5	C70		0.3		0.3		0.3		0.3		0.3
19	1000:5	C40		0.3		0.3		0.3		0.3		0.3
20	1200:5	C50		0.3		0.3		0.3		0.3		0.3
21	1500:5	C60		0.3		0.3		0.3		0.3		0.3
22	1600:5	C70		0.3		0.3		0.3		0.3		0.3
23	1800:5	C80		0.3		0.3		0.3		0.3		0.3
24	2000:5	C100		0.3		0.3		0.3		0.3		0.3
25	2500:5	C50		0.3		0.3		0.3		0.3		0.3
26	3000:5	C60		0.3		0.3		0.3		0.3		0.3

Group 2

Relay or Metering 1-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	50:1	-		4.8		-		-		-		-
2	75:1	-		2.4		4.8		-		-		-
3	100:1	C30		2.4		2.4		4.8		-		-
4	120:1	C40		1.2		2.4		4.8		-		-
5	125:1	C40		1.2		2.4		4.8		-		-
6	150:1	C50		1.2		1.2		2.4		4.8		-
7	200:1	C80		0.6		1.2		1.2		2.4		-
8	250:1	C100		0.6		0.6		1.2		2.4		2.4
9	300:1	C120		0.3		0.6		1.2		1.2		2.4
10	350:1	C120		0.3		0.6		0.6		1.2		2.4
11	400:1	C140		0.3		0.3		0.6		1.2		1.2
12	450:1	C160		0.3		0.3		0.6		1.2		1.2
13	500:1	C180		0.3		0.3		0.6		0.6		1.2
14	600:1	C220	OR	0.3	OR	0.3	OR	0.3	OR	0.6	OR	0.6
15	700:1	C180		0.3		0.3		0.3		0.3		0.6
16	750:1	C190		0.3		0.3		0.3		0.3		0.6
17	800:1	C200		0.3		0.3		0.3		0.3		0.6
18	900:1	C220		0.3		0.3		0.3		0.3		0.3
19	1000:1	C180		0.3		0.3		0.3		0.3		0.3
20	1200:1	C220		0.3		0.3		0.3		0.3		0.3
21	1500:1	C120		0.3		0.3		0.3		0.3		0.3
22	1600:1	C120		0.3		0.3		0.3		0.3		0.3
23	1800:1	-		0.3		0.3		0.3		0.3		0.3
24	2000:1	-		0.3		0.3		0.3		0.3		0.3
25	2500:1	-		0.3		0.3		0.3		0.3		0.3
26	3000:1	-		0.3		0.3		0.3		0.3		0.3

Current transformer

CT for S5/15 UL Non-AR (W 36")

Model: UL-LSC-CON10 (C-5D1/2/3 or C-15D1/2/3)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 4000 : 5	1.0

UL-LSC-CON10 Selecting and ordering data

Group 1

Relay or Metering 1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	50:5	-	4.8	4.8	-	-	-	-	-	-	
2	75:5	C10	2.4	2.4	4.8	-	-	-	-	-	
3	100:5	C20	1.2	2.4	2.4	4.8	-	-	-	-	
4	120:5	C30	1.2	1.2	2.4	2.4	4.8	-	-	-	
5	125:5	C30	1.2	1.2	2.4	2.4	2.4	4.8	-	-	
6	150:5	C30	1.2	1.2	2.4	2.4	2.4	2.4	4.8	-	
7	200:5	C60	0.6	0.6	1.2	1.2	1.2	2.4	-	-	
8	250:5	C70	0.6	0.6	0.6	1.2	1.2	2.4	-	-	
9	300:5	C100	0.3	0.6	0.6	1.2	1.2	1.2	2.4	-	
10	350:5	C100	0.3	0.6	0.6	1.2	1.2	1.2	1.2	-	
11	400:5	C120	0.3	0.3	0.3	0.6	0.6	0.6	0.6	-	
12	450:5	C150	0.3	0.3	0.3	0.6	0.6	0.6	0.6	-	
13	500:5	C150	0.3	0.3	0.3	0.3	0.3	0.6	0.6	-	
14	600:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.6	-	
15	700:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
16	750:5	C220	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
17	800:5	C250	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
18	900:5	C300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
19	1000:5	C300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
20	1200:5	C350	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
21	1500:5	C400	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
22	1600:5	C450	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
23	1800:5	C500	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
24	2000:5	C520	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
25	2500:5	C680	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
26	3000:5	C680	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
27	3500:5	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
28	4000:5	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	

Group 2

Relay or Metering 1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	50:1	C50	4.8	4.8	-	-	-	-	-	-	
2	75:1	C100	2.4	2.4	4.8	-	-	-	-	-	
3	100:1	C150	1.2	2.4	2.4	4.8	-	-	-	-	
4	120:1	C220	1.2	1.2	2.4	2.4	4.8	-	-	-	
5	125:1	C220	1.2	1.2	2.4	2.4	2.4	4.8	-	-	
6	150:1	C300	1.2	1.2	2.4	2.4	2.4	2.4	4.8	-	
7	200:1	C400	0.3	0.6	1.2	1.2	1.2	2.4	-	-	
8	250:1	C500	0.3	0.3	0.6	1.2	1.2	1.2	2.4	-	
9	300:1	C600	0.3	0.3	0.6	0.6	0.6	1.2	-	-	
10	350:1	C700	0.3	0.3	0.3	0.6	0.6	1.2	-	-	
11	400:1	C700	0.3	0.3	0.3	0.3	0.6	0.6	-	-	
12	450:1	C800	0.3	0.3	0.3	0.3	0.3	0.6	-	-	
13	500:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.6	-	
14	600:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
15	700:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
16	750:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
17	800:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
18	900:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
19	1000:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
20	1200:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
21	1500:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
22	1600:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
23	1800:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
24	2000:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	
25	2500:1	-	-	-	-	-	-	-	-	-	
26	3000:1	-	-	-	-	-	-	-	-	-	
27	3500:1	-	-	-	-	-	-	-	-	-	
28	4000:1	-	-	-	-	-	-	-	-	-	

UL-LSC-CON10 Selecting and ordering data

Group 3

Relay or Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5:5	-	-	-	-	-	-	-	-	
2	75:5:5	C10	4.8	-	-	-	-	-	-	
3	100:5:5	C10	4.8	-	-	-	-	-	-	
4	120:5:5	C20	4.8	4.8	-	-	-	-	-	
5	125:5:5	C20	4.8	4.8	-	-	-	-	-	
6	150:5:5	C30	2.4	4.8	-	-	-	-	-	
7	200:5:5	C40	1.2	2.4	4.8	-	-	-	-	
8	250:5:5	C60	1.2	2.4	2.4	4.8	-	-	-	
9	300:5:5	C70	1.2	1.2	2.4	2.4	4.8	-	-	
10	350:5:5	C80	0.6	1.2	2.4	2.4	2.4	4.8	-	
11	400:5:5	C100	0.6	1.2	1.2	1.2	2.4	2.4	-	
12	450:5:5	C120	0.6	0.6	1.2	1.2	1.2	1.2	-	
13	500:5:5	C130	0.6	0.6	1.2	1.2	1.2	1.2	2.4	
14	600:5:5	C150	0.3	0.6	0.6	0.6	1.2	1.2	2.4	
15	700:5:5	C200	0.3	0.3	0.6	0.6	0.6	0.6	1.2	
16	750:5:5	C200	0.3	0.3	0.6	0.6	0.6	0.6	1.2	
17	800:5:5	C200	0.3	0.3	0.6	0.6	0.6	0.6	1.2	
18	900:5:5	C250	0.3	0.3	0.3	0.6	0.6	0.6	0.6	
19	1000:5:5	C270	0.3	0.3	0.3	0.6	0.6	0.6	0.6	
20	1200:5:5	C300	0.3	0.3	0.3	0.3	0.6	0.6	0.6	
21	1500:5:5	C320	0.3	0.3	0.3	0.3	0.3	0.6	0.6	
22	1600:5:5	C350	0.3	0.3	0.3	0.3	0.3	0.6	0.6	
23	1800:5:5	C400	0.3	0.3	0.3	0.3	0.3	0.3	0.6	
24	2000:5:5	C450	0.3	0.3	0.3	0.3	0.3	0.3	0.6	
25	2500:5:5	C500	0.3	0.3	0.3	0.3	0.3	0.3	0.6	
26	3000:5:5	C500	0.3	0.3	0.3	0.3	0.3	0.3	0.6	

Group 4

Relay/Relay and Metering/Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5:5	-	4.8 / 4.8	-	-	-	-	-	-	
2	75:5:5	-	4.8 / 4.8	4.8 / 4.8	-	-	-	-	-	
3	100:5:5	C10	2.4 / 2.4	2.4 / 2.4	4.8 / 4.8	-	-	-	-	
4	120:5:5	C10	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	4.8 / 4.8	-	-	-	
5	125:5:5	C10	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	-	-	
6	150:5:5	C20	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	4.8 / 4.8	-	-	
7	200:5:5	C20	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	4.8 / 4.8	-	
8	250:5:5	C30	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	2.4 / 2.4	4.8 / 4.8	
9	300:5:5	C40	0.3 / 0.3	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	
10	350:5:5	C50	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	
11	400:5:5	C50	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	
12	450:5:5	C60	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	
13	500:5:5	C80	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	
14	600:5:5	C90	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	
15	700:5:5	C100	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	
16	750:5:5	C120	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	
17	800:5:5	C120	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	
18	900:5:5	C140	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
19	1000:5:5	C160	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
20	1200:5:5	C200	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
21	1500:5:5	C200	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
22	1600:5:5	C200	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
23	1800:5:5	C200	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
24	2000:5:5	C250	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
25	2500:5:5	C300	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
26	3000:5:5	C300	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	

Current transformer

CT for S5/15 UL Non-AR (W 36")

Model: UL-LSC-CON10 (C-5D1/2/3 or C-15D1/2/3)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 4000 : 5	1.0

UL-LSC-CON10 Selecting and ordering data

Group 5

Relay or Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	50:1:1	C40	4.8	-	-	-	-	-	-	-	
2	75:1:1	C80	4.8	-	-	-	-	-	-	-	
3	100:1:1	C120	4.8	4.8	-	-	-	-	-	-	
4	120:1:1	C140	2.4	4.8	-	-	-	-	-	-	
5	125:1:1	C140	2.4	4.8	-	-	-	-	-	-	
6	150:1:1	C200	2.4	2.4	4.8	-	-	-	-	-	
7	200:1:1	C260	1.2	2.4	4.8	4.8	4.8	-	-	-	
8	250:1:1	C340	1.2	1.2	2.4	4.8	4.8	-	-	-	
9	300:1:1	C420	0.6	1.2	2.4	2.4	2.4	-	-	-	
10	350:1:1	C480	0.6	0.6	1.2	1.2	2.4	2.4	4.8	4.8	
11	400:1:1	C560	0.3	0.6	1.2	1.2	1.2	1.2	2.4	2.4	
12	450:1:1	C600	0.3	0.6	1.2	1.2	1.2	1.2	2.4	2.4	
13	500:1:1	C660	0.3	0.6	1.2	1.2	1.2	1.2	2.4	2.4	
14	600:1:1	C760	0.3	0.3	0.6	0.6	1.2	1.2	1.2	1.2	
15	700:1:1	C800	0.3	0.3	0.6	0.6	0.6	0.6	1.2	1.2	
16	750:1:1	C800	0.3	0.3	0.6	0.6	0.6	0.6	1.2	1.2	
17	800:1:1	C800	0.3	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
18	900:1:1	C800	0.3	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
19	1000:1:1	C800	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	
20	1200:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	
21	1500:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
22	1600:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
23	1800:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
24	2000:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
25	2500:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
26	3000:1:1	C800	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

Group 6

Relay/Relay and Metering/Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	50:1:1	C20	4.8 / 4.8	-	-	-	-	-	-	-	
2	75:1:1	C50	2.4 / 2.4	4.8 / 4.8	-	-	-	-	-	-	
3	100:1:1	C80	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	-	-	-	-	-	
4	120:1:1	C90	1.2 / 1.2	1.2 / 1.2	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	-	-	-	
5	125:1:1	C90	1.2 / 1.2	1.2 / 1.2	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	-	-	-	
6	150:1:1	C120	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	-	-	
7	200:1:1	C160	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	2.4 / 2.4	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	4.8 / 4.8	
8	250:1:1	C220	0.3 / 0.3	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	2.4 / 2.4	2.4 / 2.4	
9	300:1:1	C260	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	2.4 / 2.4	
10	350:1:1	C270	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	
11	400:1:1	C380	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	1.2 / 1.2	
12	450:1:1	C370	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	
13	500:1:1	C400	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	
14	600:1:1	C500	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	
15	700:1:1	C600	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	
16	750:1:1	C620	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
17	800:1:1	C680	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
18	900:1:1	C660	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
19	1000:1:1	C720	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
20	1200:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
21	1500:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
22	1600:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
23	1800:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
24	2000:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
25	2500:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
26	3000:1:1	C800	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	

CT for S5/15 UL Non-AR (W 47.2")

Model: UL-LSC-CON13 (C-5E4 or C-15E4)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 5000 : 5	1.0

UL-LSC-CON13 Selecting and ordering data

Group 1

Relay or Metering 1-Core

No	Current ratio	Relay class		Metering class (at 60Hz)					
				B0.1	B0.2	B0.5	B0.9	B1.8	
1	50:5	C10		2.4	-	-	-	-	
2	75:5	C20		2.4	2.4	-	-	-	
3	100:5	C30		1.2	2.4	2.4	-	-	
4	120:5	C50		0.6	1.2	2.4	2.4	-	
5	125:5	C50		0.6	1.2	2.4	2.4	-	
6	150:5	C50		0.3	0.6	1.2	2.4	-	
7	200:5	C100		0.3	0.3	0.6	1.2	2.4	
8	250:5	C100		0.3	0.3	0.3	0.6	1.2	
9	300:5	C100		0.3	0.3	0.3	0.3	0.6	
10	350:5	C100		0.3	0.3	0.3	0.3	0.6	
11	400:5	C200		0.3	0.3	0.3	0.3	0.3	
12	450:5	C200		0.3	0.3	0.3	0.3	0.3	
13	500:5	C200		0.3	0.3	0.3	0.3	0.3	
14	600:5	C200		0.3	0.3	0.3	0.3	0.3	
15	700:5	C200		0.3	0.3	0.3	0.3	0.3	
16	750:5	C200	OR	0.3	OR	0.3	OR	0.3	
17	800:5	C400		0.3	0.3	0.3	0.3	0.3	
18	900:5	C400		0.3	0.3	0.3	0.3	0.3	
19	1000:5	C400		0.3	0.3	0.3	0.3	0.3	
20	1200:5	C400		0.3	0.3	0.3	0.3	0.3	
21	1500:5	C400		0.3	0.3	0.3	0.3	0.3	
22	1600:5	C400		0.3	0.3	0.3	0.3	0.3	
23	1800:5	C400		0.3	0.3	0.3	0.3	0.3	
24	2000:5	C800		0.3	0.3	0.3	0.3	0.3	
25	2500:5	C800		0.3	0.3	0.3	0.3	0.3	
26	3000:5	C800		0.3	0.3	0.3	0.3	0.3	
27	3200:5	C800		0.3	0.3	0.3	0.3	0.3	
28	3500:5	C800		0.3	0.3	0.3	0.3	0.3	
29	4000:5	C800		0.3	0.3	0.3	0.3	0.3	
30	4500:5	C800		0.3	0.3	0.3	0.3	0.3	
31	5000:5	C800		0.3	0.3	0.3	0.3	0.3	

Group 2

Relay or Metering 1-Core

No	Current ratio	Relay class		Metering class (at 60Hz)					
				B0.1	B0.2	B0.5	B0.9	B1.8	
1	50:1	C100		1.2	2.4	-	-	-	
2	75:1	C100		0.6	1.2	2.4	2.4	-	
3	100:1	C200		0.6	1.2	1.2	2.4	-	
4	120:1	C200		0.3	0.6	1.2	2.4	-	
5	125:1	C200		0.3	0.6	1.2	1.2	2.4	
6	150:1	C200		0.3	0.3	0.6	1.2	2.4	
7	200:1	C400		0.3	0.3	0.3	0.6	1.2	
8	250:1	C400		0.3	0.3	0.3	0.6	1.2	
9	300:1	C400		0.3	0.3	0.3	0.3	0.6	
10	350:1	C400		0.3	0.3	0.3	0.3	0.3	
11	400:1	C400		0.3	0.3	0.3	0.3	0.3	
12	450:1	C400		0.3	0.3	0.3	0.3	0.3	
13	500:1	C800		0.3	0.3	0.3	0.3	0.3	
14	600:1	C800		0.3	0.3	0.3	0.3	0.3	
15	700:1	C800		0.3	0.3	0.3	0.3	0.3	
16	750:1	C800	OR	0.3	OR	0.3	OR	0.3	
17	800:1	C800		0.3	0.3	0.3	0.3	0.3	
18	900:1	C800		0.3	0.3	0.3	0.3	0.3	
19	1000:1	C800		0.3	0.3	0.3	0.3	0.3	
20	1200:1	C800		0.3	0.3	0.3	0.3	0.3	
21	1500:1	C800		0.3	0.3	0.3	0.3	0.3	
22	1600:1	C800		0.3	0.3	0.3	0.3	0.3	
23	1800:1	C800		0.3	0.3	0.3	0.3	0.3	
24	2000:1	C800		0.3	0.3	0.3	0.3	0.3	
25	2500:1	C800		0.3	0.3	0.3	0.3	0.3	
26	3000:1	C800		0.3	0.3	0.3	0.3	0.3	
27	3200:1	C800		0.3	0.3	0.3	0.3	0.3	
28	3500:1	C800		0.3	0.3	0.3	0.3	0.3	
29	4000:1	C800		0.3	0.3	0.3	0.3	0.3	
30	4500:1	C800		0.3	0.3	0.3	0.3	0.3	
31	5000:1	C800		0.3	0.3	0.3	0.3	0.3	

Current transformer

CT for S5/15 UL Non-AR (W 47.2")

Model: UL-LSC-CON13 (C-5E4 or C-15E4)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 5000 : 5	1.0

UL-LSC-CON13 Selecting and ordering data

Group 3

Relay or Metering 1-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9	B1.8	
1	50:5:5	-		-		-		-		-		-
2	75:5:5	C10		2.4		-		-		-		-
3	100:5:5	C10		1.2		2.4		-		-		-
4	120:5:5	C10		1.2		2.4		2.4		-		-
5	125:5:5	C20		1.2		1.2		2.4		-		-
6	150:5:5	C20		0.6		1.2		2.4		-		-
7	200:5:5	C30		0.6		1.2		1.2		2.4		-
8	250:5:5	C50		0.6		1.2		1.2		2.4		-
9	300:5:5	C50		0.6		0.6		1.2		2.4		-
10	350:5:5	C50		0.3		0.6		0.6		1.2		2.4
11	400:5:5	C50		0.3		0.3		0.6		0.6		1.2
12	450:5:5	C50		0.3		0.3		0.3		0.6		0.6
13	500:5:5	C100		0.3		0.3		0.3		0.3		0.6
14	600:5:5	C100		0.3		0.3		0.3		0.3		0.3
15	700:5:5	C100		0.3		0.3		0.3		0.3		0.3
16	750:5:5	C100	AND	0.3	OR	0.3	OR	0.3	OR	0.3	OR	0.3
17	800:5:5	C100		0.3		0.3		0.3		0.3		0.3
18	900:5:5	C200		0.3		0.3		0.3		0.3		0.3
19	1000:5:5	C200		0.3		0.3		0.3		0.3		0.3
20	1200:5:5	C200		0.3		0.3		0.3		0.3		0.3
21	1500:5:5	C200		0.3		0.3		0.3		0.3		0.3
22	1600:5:5	C200		0.3		0.3		0.3		0.3		0.3
23	1800:5:5	C400		0.3		0.3		0.3		0.3		0.3
24	2000:5:5	C400		0.3		0.3		0.3		0.3		0.3
25	2500:5:5	C400		0.3		0.3		0.3		0.3		0.3
26	3000:5:5	C400		0.3		0.3		0.3		0.3		0.3
27	3200:5:5	C400		0.3		0.3		0.3		0.3		0.3
28	3500:5:5	C400		0.3		0.3		0.3		0.3		0.3
29	4000:5:5	C400		0.3		0.3		0.3		0.3		0.3
30	4500:5:5	C400		0.3		0.3		0.3		0.3		0.3
31	5000:5:5	C400		0.3		0.3		0.3		0.3		0.3

Group 4

Relay and Relay 2-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9	B1.8	
1	50:5:5	-										
2	75:5:5	C10 / C10										
3	100:5:5	C10 / C10										
4	120:5:5	C10 / C10										
5	125:5:5	C20 / C20										
6	150:5:5	C20 / C20										
7	200:5:5	C30 / C30										
8	250:5:5	C50 / C50										
9	300:5:5	C50 / C50										
10	350:5:5	C50 / C50										
11	400:5:5	C50 / C50										
12	450:5:5	C50 / C50										
13	500:5:5	C100 / C100										
14	600:5:5	C100 / C100										
15	700:5:5	C100 / C100										
16	750:5:5	C100 / C100										
17	800:5:5	C100 / C100										
18	900:5:5	C200 / C200										
19	1000:5:5	C200 / C200										
20	1200:5:5	C200 / C200										
21	1500:5:5	C200 / C200										
22	1600:5:5	C200 / C200										
23	1800:5:5	C400 / C400										
24	2000:5:5	C400 / C400										
25	2500:5:5	C400 / C400										
26	3000:5:5	C400 / C400										
27	3200:5:5	C400 / C400										
28	3500:5:5	C400 / C400										
29	4000:5:5	C400 / C400										
30	4500:5:5	C400 / C400										
31	5000:5:5	C400 / C400										

UL-LSC-CON13 Selecting and ordering data

Group 5

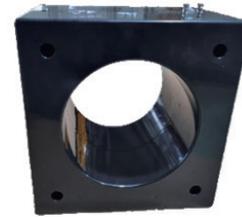
Metering and Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)					
			B0.1	B0.2	B0.5	B0.9	B1.8	
1	50:5:5		-	-	-	-	-	
2	75:5:5		2.4 / 2.4	-	-	-	-	
3	100:5:5		1.2 / 1.2	2.4 / 2.4	-	-	-	
4	120:5:5		1.2 / 1.2	2.4 / 2.4	2.4 / 2.4	-	-	
5	125:5:5		1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	-	-	
6	150:5:5		0.6 / 0.6	1.2 / 1.2	2.4 / 2.4	-	-	
7	200:5:5		0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	-	
8	250:5:5		0.6 / 0.6	1.2 / 1.2	1.2 / 1.2	2.4 / 2.4	-	
9	300:5:5		0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	2.4 / 2.4	-	
10	350:5:5		0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	2.4 / 2.4	
11	400:5:5		0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	1.2 / 1.2	
12	450:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	0.6 / 0.6	
13	500:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.6 / 0.6	
14	600:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
15	700:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
16	750:5:5		0.3 / 0.3	OR	0.3 / 0.3	OR	0.3 / 0.3	
17	800:5:5		0.3 / 0.3	0.3 / 0.3	OR	0.3 / 0.3	OR	
18	900:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	OR	0.3 / 0.3	
19	1000:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	OR	
20	1200:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
21	1500:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
22	1600:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
23	1800:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
24	2000:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
25	2500:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
26	3000:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
27	3200:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
28	3500:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
29	4000:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
30	4500:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	
31	5000:5:5		0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	0.3 / 0.3	

Current transformer

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 4000 : 5	1.0

UL-LSC-CON10-C Selecting and ordering data

Group 1

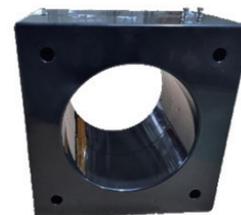
1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5	C10	4.8	4.8	-	-	-			
2	75:5	C20	2.4	2.4	4.8	-	-			
3	100:5	C20	1.2	2.4	2.4	4.8	-			
4	120:5	C20	1.2	2.4	2.4	4.8	-			
5	125:5	C20	1.2	2.4	2.4	4.8	-			
6	150:5	C50	0.6	1.2	2.4	2.4	4.8			
7	200:5	C50	0.3	0.6	1.2	1.2	2.4			
8	250:5	C50	0.3	0.3	0.6	1.2	1.2			
9	300:5	C100	0.3	0.3	0.6	0.6	2.4			
10	350:5	C100	0.3	0.3	0.6	0.6	1.2			
11	400:5	C100	0.3	0.3	0.6	0.6	1.2			
12	450:5	C100	0.3	0.3	0.6	0.6	1.2			
13	500:5	C120	0.3	0.3	0.3	0.6	0.6			
14	600:5	C200	0.3	0.3	0.3	0.3	0.6			
15	700:5	C200	0.3	0.3	0.3	0.3	0.6			
16	750:5	C200	0.3	0.3	0.3	0.3	0.6			
17	800:5	C200	0.3	0.3	0.3	0.3	0.3			
18	900:5	C220	0.3	0.3	0.3	0.3	0.3			
19	1000:5	C250	0.3	0.3	0.3	0.3	0.3			
20	1200:5	C400	0.3	0.3	0.3	0.3	0.3			
21	1500:5	C400	0.3	0.3	0.3	0.3	0.3			
22	1600:5	C400	0.3	0.3	0.3	0.3	0.3			
23	1800:5	C400	0.3	0.3	0.3	0.3	0.3			
24	2000:5	C450	0.3	0.3	0.3	0.3	0.3			
25	2500:5	C450	0.3	0.3	0.3	0.3	0.3			
26	3000:5	C500	0.3	0.3	0.3	0.3	0.3			
27	3500:5	C600	0.3	0.3	0.3	0.3	0.3			
28	4000:5	C700	0.3	0.3	0.3	0.3	0.3			

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 4000 : 5	2.0



UL-LSC-CON10-C Selecting and ordering data

Group 2

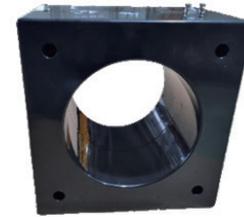
1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5	-	4.8	-	-	-	-	-		
2	75:5	C10	2.4	4.8	-	-	-	-		
3	100:5	C20	2.4	2.4	4.8	-	-	-		
4	120:5	C20	1.2	2.4	2.4	4.8	-	-		
5	125:5	C20	1.2	2.4	2.4	4.8	-	-		
6	150:5	C30	1.2	1.2	2.4	4.8	4.8	4.8		
7	200:5	C40	0.6	1.2	1.2	2.4	4.8	4.8		
8	250:5	C60	0.6	0.6	1.2	1.2	1.2	2.4		
9	300:5	C60	0.3	0.6	0.6	1.2	1.2	2.4		
10	350:5	C80	0.3	0.6	0.6	1.2	1.2	1.2		
11	400:5	C90	0.3	0.3	0.6	0.6	0.6	1.2		
12	450:5	C100	0.3	0.3	0.6	0.6	0.6	1.2		
13	500:5	C120	0.3	0.3	0.3	0.6	0.6	0.6		
14	600:5	C150	0.3	0.3	0.3	0.3	0.3	0.6		
15	700:5	C180	0.3	0.3	0.3	0.3	0.3	0.6		
16	750:5	C200	0.3	0.3	0.3	0.3	0.3	0.6		
17	800:5	C200	0.3	0.3	0.3	0.3	0.3	0.3		
18	900:5	C220	0.3	0.3	0.3	0.3	0.3	0.3		
19	1000:5	C250	0.3	0.3	0.3	0.3	0.3	0.3		
20	1200:5	C290	0.3	0.3	0.3	0.3	0.3	0.3		
21	1500:5	C300	0.3	0.3	0.3	0.3	0.3	0.3		
22	1600:5	C300	0.3	0.3	0.3	0.3	0.3	0.3		
23	1800:5	C350	0.3	0.3	0.3	0.3	0.3	0.3		
24	2000:5	C400	0.3	0.3	0.3	0.3	0.3	0.3		
25	2500:5	C400	0.3	0.3	0.3	0.3	0.3	0.3		
26	3000:5	C450	0.3	0.3	0.3	0.3	0.3	0.3		
27	3500:5	C550	0.3	0.3	0.3	0.3	0.3	0.3		
28	4000:5	C550	0.3	0.3	0.3	0.3	0.3	0.3		

Current transformer

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 : 5 ~ 4000 : 5 : 5	1.0

UL-LSC-CON10-C Selecting and ordering data

Group 3

2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5	-	-	-	-	-	-	-	-	
2	75:5	-	-	-	-	-	-	-	-	
3	100:5	-	-	-	-	-	-	-	-	
4	120:5	C10	4.8	-	-	-	-	-	-	
5	125:5	C10	4.8	-	-	-	-	-	-	
6	150:5	C20	4.8	-	-	-	-	-	-	
7	200:5	C30	2.4	4.8	-	-	-	-	-	
8	250:5	C40	2.4	2.4	4.8	-	-	-	-	
9	300:5	C50	1.2	2.4	2.4	4.8	-	-	-	
10	350:5	C60	1.2	1.2	2.4	4.8	-	-	-	
11	400:5	C70	0.6	1.2	2.4	2.4	4.8	-	-	
12	450:5	C80	0.6	1.2	2.4	2.4	2.4	-	-	
13	500:5	C100	0.6	0.6	1.2	2.4	2.4	-	-	
14	600:5	C120	0.3	0.6	0.6	1.2	1.2	2.4	-	
15	700:5	C150	0.3	0.3	0.6	0.6	1.2	1.2	2.4	
16	750:5	C150	0.3	0.3	0.6	0.6	1.2	1.2	1.2	
17	800:5	C160	0.3	0.3	0.6	0.6	0.6	1.2	1.2	
18	900:5	C180	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
19	1000:5	C200	0.3	0.3	0.3	0.6	0.6	0.6	0.6	
20	1200:5	C220	0.3	0.3	0.3	0.6	0.6	0.6	0.6	
21	1500:5	C250	0.3	0.3	0.3	0.3	0.6	0.6	0.6	
22	1600:5	C250	0.3	0.3	0.3	0.3	0.3	0.6	0.6	
23	1800:5	C300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
24	2000:5	C350	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
25	2500:5	C400	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
26	3000:5	C420	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
27	3500:5	C500	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
28	4000:5	C560	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

UL-LSC-CON10-C Selecting and ordering data

Group 4

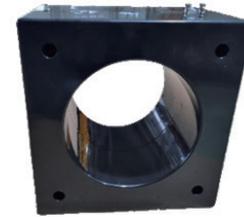
2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5	-	-	-	-	-	-	-		
2	75:5	-	4.8	-	-	-	-	-		
3	100:5	-	2.4	4.8	-	-	-	-		
4	120:5	-	2.4	2.4	4.8	-	-	-		
5	125:5	-	2.4	2.4	4.8	-	-	-		
6	150:5	C10/C10	1.2	2.4	4.8	4.8	-	-		
7	200:5	C10/C10	1.2	1.2	2.4	4.8	-	-		
8	250:5	C20/C20	0.6	1.2	1.2	2.4	4.8	-		
9	300:5	C20/C20	0.6	0.6	1.2	2.4	2.4	4.8		
10	350:5	C30/C30	0.6	0.6	1.2	1.2	2.4	2.4		
11	400:5	C40/C40	0.3	0.6	0.6	1.2	2.4	2.4		
12	450:5	C40/C40	0.3	0.6	0.6	1.2	1.2	2.4		
13	500:5	C50/C50	0.3	0.6	0.6	0.6	1.2	1.2		
14	600:5	C60/C60	0.3	0.3	0.6	0.6	0.6	1.2		
15	700:5	C60/C60	0.3	0.3	0.3	0.6	0.6	0.6		
16	750:5	C70/C70	0.3	0.3	0.3	0.6	0.6	0.6		
17	800:5	C80/C80	0.3	0.3	0.3	0.3	0.6	0.6		
18	900:5	C90/C90	0.3	0.3	0.3	0.3	0.3	0.6		
19	1000:5	C100/C100	0.3	0.3	0.3	0.3	0.3	0.3		
20	1200:5	C100/C100	0.3	0.3	0.3	0.3	0.3	0.3		
21	1500:5	C120/C120	0.3	0.3	0.3	0.3	0.3	0.3		
22	1600:5	C120/C120	0.3	0.3	0.3	0.3	0.3	0.3		
23	1800:5	C150/C150	0.3	0.3	0.3	0.3	0.3	0.3		
24	2000:5	C180/C180	0.3	0.3	0.3	0.3	0.3	0.3		
25	2500:5	C200/C200	0.3	0.3	0.3	0.3	0.3	0.3		
26	3000:5	C200/C200	0.3	0.3	0.3	0.3	0.3	0.3		
27	3500:5	C250/C250	0.3	0.3	0.3	0.3	0.3	0.3		
28	4000:5	C300/C300	0.3	0.3	0.3	0.3	0.3	0.3		

Current transformer

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 : 5 ~ 3500 : 5 : 5	2.0

UL-LSC-CON10-C Selecting and ordering data

Group 5

2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5:5	-	-	-	-	-	-	-	-	
2	75:5:5	-	-	-	-	-	-	-	-	
3	100:5:5	-	-	-	-	-	-	-	-	
4	120:5:5	C10	4.8	-	-	-	-	-	-	
5	125:5:5	C10	4.8	-	-	-	-	-	-	
6	150:5:5	C20	4.8	-	-	-	-	-	-	
7	200:5:5	C30	2.4	4.8	-	-	-	-	-	
8	250:5:5	C40	2.4	4.8	-	-	-	-	-	
9	300:5:5	C50	1.2	2.4	2.4	4.8	4.8	-	-	
10	350:5:5	C60	1.2	2.4	2.4	4.8	4.8	-	-	
11	400:5:5	C70	0.6	1.2	2.4	2.4	2.4	-	-	
12	450:5:5	C80	0.6	1.2	2.4	2.4	2.4	-	-	
13	500:5:5	C100	0.6	0.6	1.2	2.4	2.4	-	-	
14	600:5:5	C120	OR	0.3	OR	0.6	OR	0.6	OR	2.4
15	700:5:5	C150		0.3		0.6		1.2		1.2
16	750:5:5	C150		0.3		0.6		1.2		1.2
17	800:5:5	C160		0.3		0.6		0.6		1.2
18	900:5:5	C180		0.3		0.6		0.6		1.2
19	1000:5:5	C200		0.3		0.6		0.6		0.6
20	1200:5:5	C220		0.3		0.6		0.6		0.6
21	1500:5:5	C250		0.3		0.6		0.6		0.6
22	1600:5:5	C250		0.3		0.6		0.6		0.6
23	1800:5:5	C300		0.3		0.6		0.6		0.6
24	2000:5:5	C350		0.3		0.6		0.6		0.6
25	2500:5:5	C350		0.3		0.6		0.6		0.6
26	3000:5:5	C400		0.3		0.6		0.6		0.6
27	3500:5:5	C450		0.3		0.6		0.6		0.6

UL-LSC-CON10-C Selecting and ordering data

Group 6

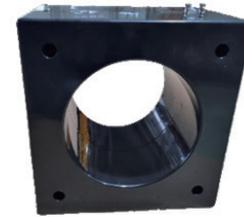
2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:5:5	-	-	-	-	-	-	-	-	
2	75:5:5	-	4.8	-	-	-	-	-	-	
3	100:5:5	-	2.4	4.8	-	-	-	-	-	
4	120:5:5	-	2.4	4.8	4.8	-	-	-	-	
5	125:5:5	-	2.4	2.4	4.8	-	-	-	-	
6	150:5:5	C10/C10	1.2	2.4	4.8	4.8	4.8	-	-	
7	200:5:5	C10/C10	1.2	1.2	2.4	4.8	4.8	-	-	
8	250:5:5	C20/C20	0.6	1.2	1.2	2.4	4.8	4.8	4.8	
9	300:5:5	C20/C20	0.6	0.6	1.2	2.4	4.8	4.8	2.4	
10	350:5:5	C30/C30	0.6	0.6	1.2	2.4	4.8	4.8	2.4	
11	400:5:5	C40/C40	0.3	0.6	0.6	2.4	4.8	4.8	2.4	
12	450:5:5	C40/C40	0.3	0.6	0.6	2.4	4.8	4.8	1.2	
13	500:5:5	C50/C50	0.3	0.3	0.6	2.4	4.8	4.8	1.2	
14	600:5:5	C60/C60	OR	0.3	OR	0.3	OR	0.6	OR	0.6
15	700:5:5	C60/C60		0.3		0.3		0.6		0.6
16	750:5:5	C70/C70		0.3		0.3		0.6		0.6
17	800:5:5	C80/C80		0.3		0.3		0.6		0.6
18	900:5:5	C90/C90		0.3		0.3		0.6		0.6
19	1000:5:5	C100/C100		0.3		0.3		0.6		0.3
20	1200:5:5	C100/C100		0.3		0.3		0.6		0.3
21	1500:5:5	C120/C120		0.3		0.3		0.6		0.3
22	1600:5:5	C120/C120		0.3		0.3		0.6		0.3
23	1800:5:5	C150/C150		0.3		0.3		0.6		0.3
24	2000:5:5	C150/C150		0.3		0.3		0.6		0.3
25	2500:5:5	C150/C150		0.3		0.3		0.6		0.3
26	3000:5:5	C200/C200		0.3		0.3		0.6		0.3
27	3500:5:5	C200/C200		0.3		0.3		0.6		0.3

Current transformer

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 1 ~ 4000 : 1	1.0 & 2.0

UL-LSC-CON10-C Selecting and ordering data

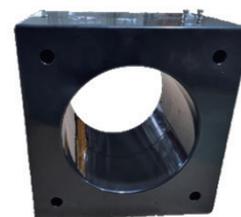
Group 7

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:1	C40	4.8	4.8	-	-	-			
2	75:1	C80	2.4	4.8	4.8	-	-			
3	100:1	C100	1.2	2.4	4.8	4.8	-			
4	120:1	C150	1.2	1.2	2.4	4.8	-			
5	125:1	C150	1.2	1.2	2.4	4.8	-			
6	150:1	C200	1.2	1.2	2.4	2.4	4.8			
7	200:1	C300	0.6	1.2	2.4	2.4	2.4			
8	250:1	C350	0.6	0.6	0.6	1.2	2.4			
9	300:1	C400	0.3	0.3	0.6	1.2	1.2			
10	350:1	C500	0.3	0.3	0.6	0.6	1.2			
11	400:1	C500	0.3	0.3	0.3	0.6	1.2			
12	450:1	C600	0.3	0.3	0.3	0.6	0.6			
13	500:1	C700	0.3	0.3	0.3	0.6	0.6			
14	600:1	C800	0.3	0.3	0.3	0.3	0.6			
15	700:1	C800	OR	OR	OR	OR	OR	0.3		
16	750:1	C800	0.3	0.3	0.3	0.3	0.3			
17	800:1	C800	0.3	0.3	0.3	0.3	0.3			
18	900:1	C800	0.3	0.3	0.3	0.3	0.3			
19	1000:1	C800	0.3	0.3	0.3	0.3	0.3			
20	1200:1	C800	0.3	0.3	0.3	0.3	0.3			
21	1500:1	C800	0.3	0.3	0.3	0.3	0.3			
22	1600:1	C800	0.3	0.3	0.3	0.3	0.3			
23	1800:1	C800	0.3	0.3	0.3	0.3	0.3			
24	2000:1	C800	0.3	0.3	0.3	0.3	0.3			
25	2500:1	C800	0.3	0.3	0.3	0.3	0.3			
26	3000:1	C800	0.3	0.3	0.3	0.3	0.3			
27	3500:1	C800	0.3	0.3	0.3	0.3	0.3			
28	4000:1	C800	0.3	0.3	0.3	0.3	0.3			

Model: UL-LSC-CON10-C

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 1 : 1 ~ 3000 : 1 : 1	1.0 & 2.0



UL-LSC-CON10-C Selecting and ordering data

Group 8

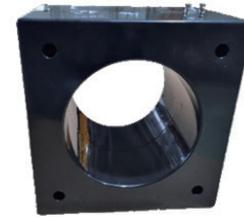
2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:1:1	-	-	-	-	-	-	-	-	
2	75:1:1	C50	4.8	-	-	-	-	-	-	
3	100:1:1	C80	4.8	-	-	-	-	-	-	
4	120:1:1	C100	4.8	4.8	-	-	-	-	-	
5	125:1:1	C100	4.8	4.8	-	-	-	-	-	
6	150:1:1	C150	2.4	4.8	-	-	-	-	-	
7	200:1:1	C200	1.2	2.4	4.8	-	-	-	-	
8	250:1:1	C250	1.2	2.4	2.4	4.8	-	-	-	
9	300:1:1	C300	0.6	1.2	2.4	4.8	-	-	-	
10	350:1:1	C350	0.6	1.2	2.4	2.4	4.8	-	-	
11	400:1:1	C400	0.6	0.6	1.2	2.4	4.8	-	-	
12	450:1:1	C500	0.3	0.6	1.2	1.2	2.4	4.8	-	
13	500:1:1	C550	0.3	0.6	1.2	1.2	1.2	2.4	4.8	
14	600:1:1	C600	0.3	0.3	0.6	0.6	1.2	1.2	2.4	
15	700:1:1	C700	0.3	0.3	0.6	0.6	0.6	1.2	1.2	
16	750:1:1	C800	0.3	0.3	0.6	0.6	0.6	1.2	1.2	
17	800:1:1	C800	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
18	900:1:1	C800	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
19	1000:1:1	C800	0.3	0.3	0.3	0.6	0.6	1.2	1.2	
20	1200:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
21	1500:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
22	1600:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
23	1800:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
24	2000:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
25	2500:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	
26	3000:1:1	C800	0.3	0.3	0.3	0.3	0.6	1.2	1.2	

Current transformer

CT for S27 UL Non-AR

Model: UL-LSC-CON10-C



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 1 : 1 ~ 3000 : 1 : 1	1.0 & 2.0

UL-LSC-CON10-C Selecting and ordering data

Group 9

2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)							
			B0.1	B0.2	B0.5	B0.9	B1.8			
1	50:1:1	C10/C10	4.8	-	-	-	-	-		
2	75:1:1	C20/C20	4.8	4.8	-	-	-	-		
3	100:1:1	C60/C60	2.4	4.8	-	-	-	-		
4	120:1:1	C70/C70	2.4	2.4	4.8	-	-	-		
5	125:1:1	C70/C70	2.4	2.4	4.8	-	-	-		
6	150:1:1	C90/C90	1.2	2.4	4.8	4.8	-	-		
7	200:1:1	C120/C120	0.6	1.2	2.4	2.4	4.8	-		
8	250:1:1	C160/C160	0.6	0.6	1.2	2.4	2.4	4.8		
9	300:1:1	C200/C200	0.3	0.6	1.2	1.2	2.4	2.4		
10	350:1:1	C220/C220	0.3	0.6	0.6	1.2	2.4	2.4		
11	400:1:1	C240/C240	0.3	0.3	0.6	1.2	1.2	2.4		
12	450:1:1	C260/C260	0.3	0.3	0.6	0.6	1.2	1.2		
13	500:1:1	C300/C300	0.3	0.3	0.6	0.6	0.6	1.2		
14	600:1:1	C360/C360	0.3	0.3	0.3	0.6	0.6	1.2		
15	700:1:1	C400/C400	0.3	0.3	0.3	0.3	0.6	0.6		
16	750:1:1	C440/C440	0.3	0.3	0.3	0.3	0.3	0.6		
17	800:1:1	C460/C460	0.3	0.3	0.3	0.3	0.3	0.6		
18	900:1:1	C500/C500	0.3	0.3	0.3	0.3	0.3	0.3		
19	1000:1:1	C540/C540	0.3	0.3	0.3	0.3	0.3	0.3		
20	1200:1:1	C580/C580	0.3	0.3	0.3	0.3	0.3	0.3		
21	1500:1:1	C620/C620	0.3	0.3	0.3	0.3	0.3	0.3		
22	1600:1:1	C620/C620	0.3	0.3	0.3	0.3	0.3	0.3		
23	1800:1:1	C660/C660	0.3	0.3	0.3	0.3	0.3	0.3		
24	2000:1:1	C700/C700	0.3	0.3	0.3	0.3	0.3	0.3		
25	2500:1:1	C800/C800	0.3	0.3	0.3	0.3	0.3	0.3		
26	3000:1:1	-	-	-	-	-	-	-		

CT for S5/15 UL AR

Model: UL-LSC-12 (C-5A1 or C-15A1)

Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 1200 : 5	1.0



UL-LSC-12 Selecting and ordering data

Group 1

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	100 / 5A	C20	0.6	1.2	2.4	-	-				
2	150 / 5A	C30	0.6	0.6	1.2	2.4	-				
3	200 / 5A	C50	0.3	0.6	0.6	1.2	2.4				
4	250 / 5A	C50	0.3	0.3	0.6	1.2	2.4				
5	300 / 5A	C50	0.3	0.3	0.6	1.2	2.4				
6	350 / 5A	C50	0.3	0.3	0.6	1.2	1.2				
7	400 / 5A	C100	0.3	0.3	0.3	0.6	0.6				
8	450 / 5A	C100	OR	OR	OR	OR	OR	OR	0.3		
9	500 / 5A	C100							0.3		
10	600 / 5A	C100							0.3		
11	750 / 5A	C100							0.3		
12	800 / 5A	C200							0.3		
13	1000 / 5A	C100							0.3		
14	1100 / 5A	C100							0.3		
15	1200 / 5A	C200							0.3		

Group 2

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	100 / 1A	C100	0.6	1.2	2.4	-	-				
2	150 / 1A	C200	0.6	0.6	1.2	2.4	-				
3	200 / 1A	C200	0.3	0.6	0.6	1.2	2.4				
4	250 / 1A	C200	0.3	0.3	0.6	1.2	2.4				
5	300 / 1A	C200	0.3	0.3	0.6	1.2	2.4				
6	350 / 1A	C400	0.3	0.3	0.6	1.2	1.2				
7	400 / 1A	C400	0.3	0.3	0.3	0.6	0.6				
8	450 / 1A	C400	OR	OR	OR	OR	OR	OR	0.3		
9	500 / 1A	C400							0.3		
10	600 / 1A	C400							0.3		
11	750 / 1A	C400							0.3		
12	800 / 1A	C400							0.3		
13	1000 / 1A	C400							0.3		
14	1100 / 1A	C400							0.3		
15	1200 / 1A	C400							0.3		

Current transformer

UL-LSC-12 Selecting and ordering data

Group 3

2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)										
			B0.1	B0.2	B0.5	B0.9	B1.8						
1	100 / 5 / 5A	C10 / C10	OR	2.4 / 2.4	OR	4.8 / 4.8	OR	4.8 / 4.8	OR	-	OR	-	
2	150 / 5 / 5A	C10 / C10		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		-	-
3	200 / 5 / 5A	C20 / C20		1.2 / 1.2		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8	
4	250 / 5 / 5A	C30 / C30		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		4.8 / 4.8	
5	300 / 5 / 5A	C30 / C30		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		4.8 / 4.8	
6	350 / 5 / 5A	C30 / C30		0.3 / 0.3		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4	
7	400 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2	
8	450 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6	
9	500 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6	
10	600 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	
11	750 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	
12	800 / 5 / 5A	C100 / C100		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	
13	1000 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	
14	1100 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	
15	1200 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3	

Group 4

Relay and Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)										
			B0.1	B0.2	B0.5	B0.9	B1.8						
1	100 / 5 / 5A	C10	AND	2.4	OR	4.8	OR	4.8	OR	-	OR	-	
2	150 / 5 / 5A	C20		1.2		2.4		2.4		4.8		-	-
3	200 / 5 / 5A	C20		1.2		1.2		2.4		2.4		4.8	
4	250 / 5 / 5A	C30		0.6		0.6		1.2		2.4		4.8	
5	300 / 5 / 5A	C30		0.6		0.6		1.2		2.4		4.8	
6	350 / 5 / 5A	C30		0.3		0.6		1.2		2.4		2.4	
7	400 / 5 / 5A	C50		0.3		0.3		0.6		1.2		1.2	
8	450 / 5 / 5A	C50		0.3		0.3		0.6		0.6		0.6	
9	500 / 5 / 5A	C50		0.3		0.3		0.6		0.6		0.6	
10	600 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.6	
11	750 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3	
12	800 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3	
13	1000 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3	
14	1100 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3	
15	1200 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3	

UL-LSC-12 Selecting and ordering data

Group 5

2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)									
			B0.1	B0.2	B0.5	B0.9	B1.8					
1	100 / 1 / 1A	C50 / C50		2.4 / 2.4		4.8 / 4.8		4.8 / 4.8		-		-
2	150 / 1 / 1A	C100 / C100		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		-
3	200 / 1 / 1A	C100 / C100		1.2 / 1.2		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8
4	250 / 1 / 1A	C100 / C100		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		4.8 / 4.8
5	300 / 1 / 1A	C100 / C100		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		4.8 / 4.8
6	350 / 1 / 1A	C200 / C200		0.3 / 0.3		0.6 / 0.6		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4
7	400 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2
8	450 / 1 / 1A	C200 / C200	OR	0.3 / 0.3	OR	0.3 / 0.3	OR	0.6 / 0.6	OR	0.6 / 0.6	OR	0.6 / 0.6
9	500 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6
10	600 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
11	750 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
12	800 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
13	1000 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
14	1100 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
15	1200 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3

Group 6

Relay and Metering 2-Core

No	Current ratio	Relay class	Metering class (at 60Hz)									
			B0.1	B0.2	B0.5	B0.9	B1.8					
1	100 / 1 / 1A	C50		2.4		4.8		4.8		-		-
2	150 / 1 / 1A	C100		1.2		2.4		2.4		4.8		-
3	200 / 1 / 1A	C100		1.2		1.2		2.4		2.4		4.8
4	250 / 1 / 1A	C100		0.6		0.6		1.2		2.4		4.8
5	300 / 1 / 1A	C100		0.6		0.6		1.2		2.4		4.8
6	350 / 1 / 1A	C200		0.3		0.6		1.2		2.4		2.4
7	400 / 1 / 1A	C200		0.3		0.3		0.6		1.2		1.2
8	450 / 1 / 1A	C200	AND	0.3	OR	0.3	OR	0.6	OR	0.6	OR	0.6
9	500 / 1 / 1A	C200		0.3		0.3		0.6		0.6		0.6
10	600 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.6
11	750 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
12	800 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
13	1000 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
14	1100 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
15	1200 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3

Current transformer

CT for S5/15 UL AR

Model: UL-LSC-20 (C-5A2 or C-15A2)



Current rating Pri:Sec Amperes	Continuous thermal current rating factor
50 : 5 ~ 2000 : 5	1.0

UL-LSC-20 Selecting and ordering data

Group 1

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	100 / 5A	C10	2.4	4.8	-	-	-				
2	150 / 5A	C20	0.6	1.2	2.4	-	-				
3	200 / 5A	C30	0.6	1.2	2.4	-	-				
4	250 / 5A	C30	0.6	0.6	1.2	2.4	-				
5	300 / 5A	C50	0.6	0.6	1.2	1.2	2.4				
6	350 / 5A	C50	0.3	0.6	0.6	1.2	2.4				
7	400 / 5A	C50	0.3	0.6	0.6	1.2	1.2				
8	450 / 5A	C50	0.3	0.3	0.3	0.6	1.2				
9	500 / 5A	C100	0.3	0.3	0.3	0.6	1.2				
10	600 / 5A	C100	0.3	0.3	0.3	0.6	1.2				
11	750 / 5A	C100	0.3	0.3	0.3	0.3	0.6				
12	800 / 5A	C100	0.3	0.3	0.3	0.3	0.6				
13	1000 / 5A	C200	0.3	0.3	0.3	0.3	0.3				
14	1100 / 5A	C200	0.3	0.3	0.3	0.3	0.3				
15	1200 / 5A	C200	0.3	0.3	0.3	0.3	0.3				
16	1500 / 5A	C200	0.3	0.3	0.3	0.3	0.3				
17	1600 / 5A	C200	0.3	0.3	0.3	0.3	0.3				
18	2000 / 5A	C200	0.3	0.3	0.3	0.3	0.3				

Group 2

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)								
			B0.1	B0.2	B0.5	B0.9	B1.8				
1	100 / 1A	C50	2.4	4.8	-	-	-				
2	150 / 1A	C100	0.6	1.2	2.4	-	-				
3	200 / 1A	C100	0.6	1.2	2.4	-	-				
4	250 / 1A	C200	0.6	0.6	1.2	2.4	-				
5	300 / 1A	C200	0.6	0.6	1.2	1.2	2.4				
6	350 / 1A	C200	0.3	0.6	0.6	1.2	2.4				
7	400 / 1A	C200	0.3	0.6	0.6	1.2	1.2				
8	450 / 1A	C200	0.3	0.3	0.3	0.6	1.2				
9	500 / 1A	C400	0.3	0.3	0.3	0.6	1.2				
10	600 / 1A	C400	0.3	0.3	0.3	0.6	1.2				
11	750 / 1A	C400	0.3	0.3	0.3	0.3	0.6				
12	800 / 1A	C400	0.3	0.3	0.3	0.3	0.6				
13	1000 / 1A	C400	0.3	0.3	0.3	0.3	0.3				
14	1100 / 1A	C400	0.3	0.3	0.3	0.3	0.3				
15	1200 / 1A	C400	0.3	0.3	0.3	0.3	0.3				
16	1500 / 1A	C800	0.3	0.3	0.3	0.3	0.3				
17	1600 / 1A	C800	0.3	0.3	0.3	0.3	0.3				
18	2000 / 1A	C800	0.3	0.3	0.3	0.3	0.3				

UL-LSC-20 Selecting and ordering data

Group 3

2-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	100 / 5 / 5A	-		-		-		-		-		-
2	150 / 5 / 5A	-		-		-		-		-		-
3	200 / 5 / 5A	-		-		-		-		-		-
4	250 / 5 / 5A	C10 / C10		2.4 / 2.4		4.8 / 4.8		-		-		-
5	300 / 5 / 5A	C20 / C20		2.4 / 2.4		4.8 / 4.8		4.8 / 4.8		-		-
6	350 / 5 / 5A	C20 / C20		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		-
7	400 / 5 / 5A	C30 / C30		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		4.8 / 4.8
8	450 / 5 / 5A	C30 / C30		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4
9	500 / 5 / 5A	C30 / C30	OR	0.6 / 0.6	OR	0.6 / 0.6	OR	1.2 / 1.2	OR	1.2 / 1.2	OR	2.4 / 2.4
10	600 / 5 / 5A	C30 / C30		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2
11	750 / 5 / 5A	C50 / C50		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6
12	800 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6
13	1000 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6
14	1100 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
15	1200 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
16	1500 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
17	1600 / 5 / 5A	C50 / C50		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
18	2000 / 5 / 5A	C100 / C100		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3

Group 4

Relay and Metering 2-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	100 / 5 / 5A	-		-		-		-		-		-
2	150 / 5 / 5A	-		-		-		-		-		-
3	200 / 5 / 5A	-		-		-		-		-		-
4	250 / 5 / 5A	C10		2.4		4.8		-		-		-
5	300 / 5 / 5A	C20		2.4		4.8		4.8		-		-
6	350 / 5 / 5A	C20		1.2		2.4		2.4		4.8		-
7	400 / 5 / 5A	C30		1.2		2.4		2.4		4.8		4.8
8	450 / 5 / 5A	C30		0.6		1.2		1.2		2.4		2.4
9	500 / 5 / 5A	C30	AND	0.6	OR	0.6	OR	1.2	OR	1.2	OR	2.4
10	600 / 5 / 5A	C30		0.6		0.6		0.6		1.2		1.2
11	750 / 5 / 5A	C50		0.3		0.6		0.6		0.6		0.6
12	800 / 5 / 5A	C50		0.3		0.3		0.3		0.6		0.6
13	1000 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.6
14	1100 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.3
15	1200 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.3
16	1500 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.3
17	1600 / 5 / 5A	C50		0.3		0.3		0.3		0.3		0.3
18	2000 / 5 / 5A	C100		0.3		0.3		0.3		0.3		0.3

Current transformer

UL-LSC-20 Selecting and ordering data

Group 5

2-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	100 / 1 / 1A	-		-		-		-		-		-
2	150 / 1 / 1A	-		-		-		-		-		-
3	200 / 1 / 1A	-		-		-		-		-		-
4	250 / 1 / 1A	C50 / C50		2.4 / 2.4		4.8 / 4.8		-		-		-
5	300 / 1 / 1A	C100 / C100		2.4 / 2.4		4.8 / 4.8		4.8 / 4.8		-		-
6	350 / 1 / 1A	C100 / C100		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		-
7	400 / 1 / 1A	C100 / C100		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4		4.8 / 4.8		4.8 / 4.8
8	450 / 1 / 1A	C100 / C100		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2		2.4 / 2.4		2.4 / 2.4
9	500 / 1 / 1A	C100 / C100	OR	0.6 / 0.6	OR	0.6 / 0.6	OR	1.2 / 1.2	OR	1.2 / 1.2	OR	2.4 / 2.4
10	600 / 1 / 1A	C100 / C100		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6		1.2 / 1.2		1.2 / 1.2
11	750 / 1 / 1A	C200 / C200		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6		0.6 / 0.6
12	800 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6		0.6 / 0.6
13	1000 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.6 / 0.6
14	1100 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
15	1200 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
16	1500 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
17	1600 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3
18	2000 / 1 / 1A	C200 / C200		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3		0.3 / 0.3

Group 6

Relay and Metering 2-Core

No	Current ratio	Relay class		Metering class (at 60Hz)								
				B0.1		B0.2		B0.5		B0.9		B1.8
1	100 / 1 / 1A	-		-		-		-		-		-
2	150 / 1 / 1A	-		-		-		-		-		-
3	200 / 1 / 1A	-		-		-		-		-		-
4	250 / 1 / 1A	C50		2.4		4.8		-		-		-
5	300 / 1 / 1A	C100		2.4		4.8		4.8		-		-
6	350 / 1 / 1A	C100		1.2		2.4		2.4		4.8		-
7	400 / 1 / 1A	C100		1.2		2.4		2.4		4.8		4.8
8	450 / 1 / 1A	C100		0.6		1.2		1.2		2.4		2.4
9	500 / 1 / 1A	C100	AND	0.6	OR	0.6	OR	1.2	OR	1.2	OR	2.4
10	600 / 1 / 1A	C100		0.6		0.6		0.6		1.2		1.2
11	750 / 1 / 1A	C200		0.3		0.6		0.6		0.6		0.6
12	800 / 1 / 1A	C200		0.3		0.3		0.3		0.6		0.6
13	1000 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.6
14	1100 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
15	1200 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
16	1500 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
17	1600 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3
18	2000 / 1 / 1A	C200		0.3		0.3		0.3		0.3		0.3

CT for S38 ANSI AR & NAR

Model: DCIB-L81 (C-38I1 or C-38I2)

APPLICATION	For relaying and metering		
FREQUENCY	60Hz		
INSULATION CLASS	600V, BIL 10kV full wave		
THERMAL RATING	1.0 at 30°C		
OUTER ENCAPSULATION	ABS CASE		
Height	11.46"	Depth	5.98"
Width	11.46"	Weight	10.5kg



DCIB-L81 Selecting and ordering data

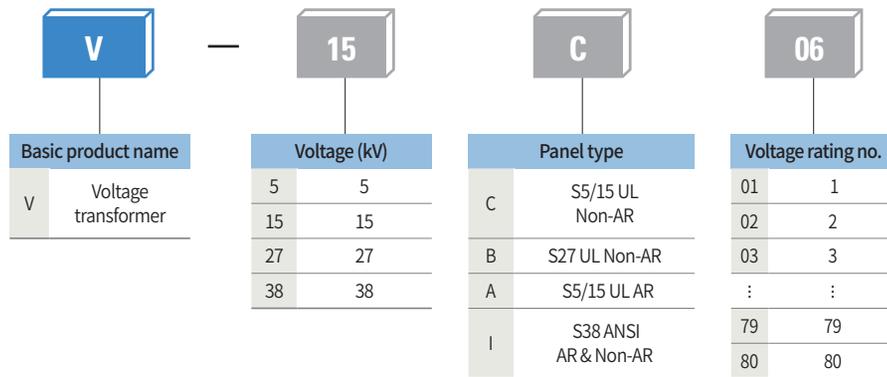
Group 1

1-Core

No	Current ratio	Relay class	Metering class (at 60Hz)									
			B0.1		B0.2		B0.5		B0.9		B1.8	
1	600 / 5A	C200	AND	0.3	OR	0.3	OR	0.3	OR	0.3	OR	0.3
2	1200 / 5A	C400		0.3		-		0.3		0.3		
3	2000 / 5A	C400		0.3		0.3		0.3		0.3		
4	3000 / 5A	C800		0.3		0.3		0.3		0.3		
5	4000 / 5A	C800		0.3		0.3		0.3		0.3		
6	5000 / 5A	C800		0.3		0.3		0.3		0.3		

Voltage transformer

Description



Ordering example 1)

- For 5kV Non-AR MCSG
- Voltage rating: $13200/\sqrt{3} : 120/\sqrt{3}V$
- ▶ V-5C-09

Ordering example 2)

- For 27kV Non-AR MCSG
- Voltage rating: $24700/\sqrt{3} : 120/\sqrt{3}V$
- ▶ V-27B-32

Ordering example 3)

- For 38kV MCSG
- Voltage rating: $27600/\sqrt{3} : 115/\sqrt{3}V$
- ▶ V-38I-01

VT for S5/15 UL Non-AR

Model: UL-LSP-15LN-NA (V-5C or V-15C)

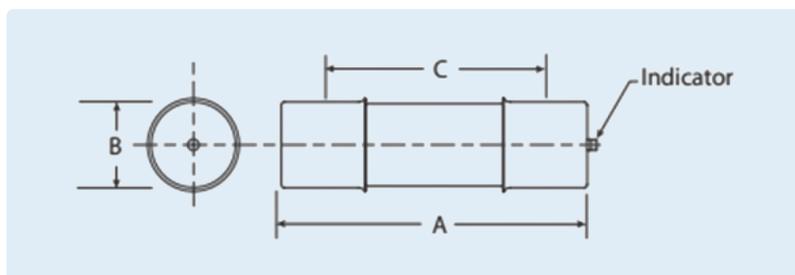
Ratio	Thermal rating	
	Ambient	
	30°C	55°C
20 : 1 ~ 125 : 1	1500VA	1000VA



UL-LSP-15LN-NA Selecting and ordering data

No	Voltage rating	Ratio	Accuracy / Burden	Freq.	Voltage
1	2400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	20 : 1	0.3 Y & 1.2 Z	60Hz	5.6kV
2	4160/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	35 : 1	0.3 Y & 1.2 Z	60Hz	5.6kV
3	4200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	35 : 1	0.3 Y & 1.2 Z	60Hz	5.6kV
4	4760/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	40 : 1	0.3 Y & 1.2 Z	60Hz	5.6kV
5	4800/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	40 : 1	0.3 Y & 1.2 Z	60Hz	5.6kV
6	7200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	60 : 1	0.3 Y & 1.2 Z	60Hz	9.52kV
7	8400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	70 : 1	0.3 Y & 1.2 Z	60Hz	9.52kV
8	12000/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	100 : 1	0.3 Y & 1.2 Z	60Hz	15.5kV
9	13200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	110 : 1	0.3 Y & 1.2 Z	60Hz	15.5kV
10	13800/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	115 : 1	0.3 Y & 1.2 Z	60Hz	15.5kV
11	14400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	120 : 1	0.3 Y & 1.2 Z	60Hz	15.5kV
12	15000/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	125 : 1	0.3 Y & 1.2 Z	60Hz	15.5kV

Suitable fuse dimension



Length A	Length B	Length C
12.9" (328mm)	1.6" (41mm)	11.5" (292mm)

Voltage transformer

VT for S27 UL Non-AR

Model: UL-LSP-27BL

Ratio	Thermal rating	
	Ambient	
	30°C	55°C
167 : 1 ~ 250 : 1	1500VA	1000VA



DPE-24N Selecting and ordering data

No	Voltage rating		Ratio	Accuracy / Burden	Freq.
	Primary (V)	Secondary (V)			
1	20000/√3	100/√3	200 : 1	0.3Y & 1.2Z	60Hz
2	20000/√3	110/√3	182 : 1	0.3Y & 1.2Z	60Hz
3	20000/√3	115/√3	174 : 1	0.3Y & 1.2Z	60Hz
4	20000/√3	120/√3	167 : 1	0.3Y & 1.2Z	60Hz
5	20750/√3	100/√3	208 : 1	0.3Y & 1.2Z	60Hz
6	20750/√3	110/√3	189 : 1	0.3Y & 1.2Z	60Hz
7	20750/√3	115/√3	180 : 1	0.3Y & 1.2Z	60Hz
8	20750/√3	120/√3	173 : 1	0.3Y & 1.2Z	60Hz
9	20780/√3	100/√3	208 : 1	0.3Y & 1.2Z	60Hz
10	20780/√3	110/√3	189 : 1	0.3Y & 1.2Z	60Hz
11	20780/√3	115/√3	181 : 1	0.3Y & 1.2Z	60Hz
12	20780/√3	120/√3	173 : 1	0.3Y & 1.2Z	60Hz
13	21000/√3	100/√3	210 : 1	0.3Y & 1.2Z	60Hz
14	21000/√3	110/√3	191 : 1	0.3Y & 1.2Z	60Hz
15	21000/√3	115/√3	183 : 1	0.3Y & 1.2Z	60Hz
16	21000/√3	120/√3	175 : 1	0.3Y & 1.2Z	60Hz
17	22000/√3	100/√3	220 : 1	0.3Y & 1.2Z	60Hz
18	22000/√3	110/√3	200 : 1	0.3Y & 1.2Z	60Hz
19	22000/√3	115/√3	191 : 1	0.3Y & 1.2Z	60Hz
20	22000/√3	120/√3	183 : 1	0.3Y & 1.2Z	60Hz
21	23000/√3	100/√3	230 : 1	0.3Y & 1.2Z	60Hz
22	23000/√3	110/√3	209 : 1	0.3Y & 1.2Z	60Hz
23	23000/√3	115/√3	200 : 1	0.3Y & 1.2Z	60Hz
24	23000/√3	120/√3	192 : 1	0.3Y & 1.2Z	60Hz
25	24000/√3	100/√3	240 : 1	0.3Y & 1.2Z	60Hz
26	24000/√3	110/√3	218 : 1	0.3Y & 1.2Z	60Hz
27	24000/√3	115/√3	209 : 1	0.3Y & 1.2Z	60Hz
28	24000/√3	120/√3	200 : 1	0.3Y & 1.2Z	60Hz
29	24700/√3	100/√3	247 : 1	0.3Y & 1.2Z	60Hz
30	24700/√3	110/√3	225 : 1	0.3Y & 1.2Z	60Hz
31	24700/√3	115/√3	215 : 1	0.3Y & 1.2Z	60Hz
32	24700/√3	120/√3	206 : 1	0.3Y & 1.2Z	60Hz
33	24940/√3	100/√3	249 : 1	0.3Y & 1.2Z	60Hz
34	24940/√3	110/√3	227 : 1	0.3Y & 1.2Z	60Hz
35	24940/√3	115/√3	217 : 1	0.3Y & 1.2Z	60Hz
36	24940/√3	120/√3	208 : 1	0.3Y & 1.2Z	60Hz
37	25000/√3	100/√3	250 : 1	0.3Y & 1.2Z	60Hz
38	25000/√3	110/√3	227 : 1	0.3Y & 1.2Z	60Hz
39	25000/√3	115/√3	217 : 1	0.3Y & 1.2Z	60Hz
40	25000/√3	120/√3	208 : 1	0.3Y & 1.2Z	60Hz

VT for S27 UL Non-AR

Model: UL-LSP-27BL

Ratio	Thermal rating	
	Ambient	
	30°C	55°C
167 : 1 ~ 250 : 1	1500VA	1000VA



DPE-24N Selecting and ordering data

No	Voltage rating			Ratio	Accuracy / Burden	Freq.
	Primary (V)	Secondary (V)	Tertiary (V)			
41	20000/√3	100/√3	100/√3	200 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
42	20000/√3	110/√3	110/√3	182 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
43	20000/√3	115/√3	115/√3	174 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
44	20000/√3	120/√3	120/√3	167 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
45	20750/√3	100/√3	100/√3	208 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
46	20750/√3	110/√3	110/√3	189 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
47	20750/√3	115/√3	115/√3	180 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
48	20750/√3	120/√3	120/√3	173 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
49	20780/√3	100/√3	100/√3	208 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
50	20780/√3	110/√3	110/√3	189 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
51	20780/√3	115/√3	115/√3	181 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
52	20780/√3	120/√3	120/√3	173 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
53	21000/√3	100/√3	100/√3	210 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
54	21000/√3	110/√3	110/√3	191 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
55	21000/√3	115/√3	115/√3	183 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
56	21000/√3	120/√3	120/√3	175 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
57	22000/√3	100/√3	100/√3	220 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
58	22000/√3	110/√3	110/√3	200 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
59	22000/√3	115/√3	115/√3	191 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
60	22000/√3	120/√3	120/√3	183 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
61	23000/√3	100/√3	100/√3	230 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
62	23000/√3	110/√3	110/√3	209 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
63	23000/√3	115/√3	115/√3	200 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
64	23000/√3	120/√3	120/√3	192 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
65	24000/√3	100/√3	100/√3	240 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
66	24000/√3	110/√3	110/√3	218 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
67	24000/√3	115/√3	115/√3	209 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
68	24000/√3	120/√3	120/√3	200 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
69	24700/√3	100/√3	100/√3	247 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
70	24700/√3	110/√3	110/√3	225 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
71	24700/√3	115/√3	115/√3	215 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
72	24700/√3	120/√3	120/√3	206 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
73	24940/√3	100/√3	100/√3	249 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
74	24940/√3	110/√3	110/√3	227 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
75	24940/√3	115/√3	115/√3	217 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
76	24940/√3	120/√3	120/√3	208 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
77	25000/√3	100/√3	100/√3	250 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
78	25000/√3	110/√3	110/√3	227 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
79	25000/√3	115/√3	115/√3	217 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz
80	25000/√3	120/√3	120/√3	208 : 1 : 1	0.3X/0.3X or 0.6Y/0.6Y	60Hz

Voltage transformer

VT for S5/15 UL AR

Model: UL-LSP-15N (V-5A or V-15A)

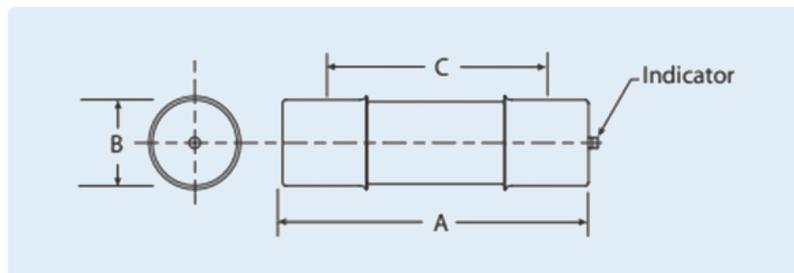


Ratio	Thermal rating	
	Ambient	
	30°C	55°C
20 : 1 ~ 125 : 1	1500VA	1000VA

UL-LSP-15N Selecting and ordering data

No	Voltage rating	Ratio	Accuracy / Burden	Freq.	Voltage
1	2400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	20 : 1	0.3 Y & 1.2 Z	60Hz	15kV
2	3300/ $\sqrt{3}$: 110/ $\sqrt{3}$ V	30 : 1	0.3 Y & 1.2 Z	60Hz	15kV
3	4200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	35 : 1	0.3 Y & 1.2 Z	60Hz	15kV
4	4800/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	40 : 1	0.3 Y & 1.2 Z	60Hz	15kV
5	6600/ $\sqrt{3}$: 110/ $\sqrt{3}$ V	60 : 1	0.3 Y & 1.2 Z	60Hz	15kV
6	7200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	60 : 1	0.3 Y & 1.2 Z	60Hz	15kV
7	8400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	70 : 1	0.3 Y & 1.2 Z	60Hz	15kV
8	11000/ $\sqrt{3}$: 110/ $\sqrt{3}$ V	100 : 1	0.3 Y & 1.2 Z	60Hz	15kV
9	12000/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	100 : 1	0.3 Y & 1.2 Z	60Hz	15kV
10	13200/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	110 : 1	0.3 Y & 1.2 Z	60Hz	15kV
11	13800/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	115 : 1	0.3 Y & 1.2 Z	60Hz	15kV
12	14400/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	120 : 1	0.3 Y & 1.2 Z	60Hz	15kV
13	15000/ $\sqrt{3}$: 120/ $\sqrt{3}$ V	125 : 1	0.3 Y & 1.2 Z	60Hz	15kV

Suitable fuse dimension



Length A	Length B	Length C
12.9" (328mm)	1.6" (41mm)	11.5" (292mm)

VT for S38 ANSI AR & NAR

Model: DPE-36NF (V-38I)

APPLICATION	For relaying and metering
FREQUENCY	60Hz
INSULATION CLASS	IEEE: 36.5kV, BIL 200kV full wave IEC: 36kV, BIL 170kV full wave
THERMAL RATING	1000 VA at 30°C
INSULATION	Epoxy mold
WEIGHT	Approx. 55kg



DPE-36NF Selecting and ordering data

No	Voltage rating	Ratio	Accuracy / Burden	Freq.	Voltage
1	$27600/\sqrt{3} : 115/\sqrt{3}V$	240 : 1	0.3 Y & 1.2 Z	60Hz	36.5KV
2	$134500/\sqrt{3} : 115/\sqrt{3}V$	300 : 1	0.3 Y & 1.2 Z	60Hz	36.5KV

Ground & test device

G&T for S5 UL Non-AR

Model: UCGT, Simple manual device type

GT type		UCGT-5Ms															
Rated voltage	Ur (kV)	4.76															
Rated withstand voltage	Power frequency (1min)	19															
	Lightening impulse (1.2×50μs)	60															
Rated short-time withstand current	Isc (kA)	25				31.5				40				50			
Rated normal current	Ir (A)	1200	2000	3000	4000	1200	2000	3000	4000	1200	2000	3000	4000	1200	2000	3000	4000
Rated frequency	fr (Hz)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Rated momentary withstand current	Ip (kA) at 60 Hz	65	65	65	65	81.9	81.9	81.9	81.9	104	104	104	104	130	130	130	130

G&T for S15 UL Non-AR

Model: UCGT, Simple manual device type

GT type		UCGT-15Ms															
Rated voltage	Ur (kV)	15															
Rated withstand voltage	Power frequency (1min)	36															
	Lightening impulse (1.2×50μs)	95															
Rated short-time withstand current	Isc (kA)	25				31.5				40				50			
Rated normal current	Ir (A)	1200	2000	3000	4000	1200	2000	3000	4000	1200	2000	3000	4000	1200	2000	3000	4000
Rated frequency	fr (Hz)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Rated momentary withstand current	Ip (kA) at 60 Hz	65	65	65	65	81.9	81.9	81.9	81.9	104	104	104	104	130	130	130	130

G&T for S27 UL Non-AR

Model: UCGT, Simple manual device type

GT type		UCGT-27Ms											
Rated voltage	Ur (kV)	27											
Rated withstand voltage	Power frequency (1min)	60											
	Lightening impulse (1.2×50μs)	125											
Rated short-time withstand current	Isc (kA)	25				31.5				40			
Rated normal current	Ir (A)	1200	2000	2500	2750	1200	2000	2500	2750	1200	2000	2500	2750
Rated frequency	fr (Hz)	60	60	60	60	60	60	60	60	60	60	60	60
Rated short-circuit making current	Ip (kA) at 60 Hz	65	65	65	65	81.9	81.9	81.9	81.9	104	104	104	104

Description

UCGT type

UCGT		15	Ms	40	A	12					
Basic model name		Rated voltage (kV)		Version		Rated short-time withstand current (kA)		Phase distance/ Compatibility		Rated current (A)	
UCGT	Susol Ground and Test Device	5	4.76	Ms	Simple manual device	25	25	A	7"(178mm)	12	1200
		15	15			32	31.5	C	10"(254mm)	20	2000
						40	40				
						50	50				
						25	25	C	10"(254mm)	30	3000
						32	31.5				
						40	40				
						50	50	L	12.59"(320mm)	40	4000
						25	25				
						32	31.5				
						40	40				
						50	50				
		27		Ms	Simple manual device	25	25	C	10"(254mm)	12	1200
		27	27			32	31.5			20	2000
						40	40			25	2500
										28	2750



Accessories	
A	Upper and lower terminals
B	Upper terminals only
C	Lower terminals only
AS	Upper and lower terminals with auxiliary wheels
BS	Upper terminals only with auxiliary wheels auxiliary wheels
CS	Lower terminals only with auxiliary wheels

Ground & test device

G&T for S5/15 UL AR

Model: UVGT, Simple manual device type

GT type			UVGT-05Ms				UVGT-15Ms			
Rated voltage	Ur (kV)		4.76				15			
Rated withstand voltage	Power frequency (1min)	Ud (kV)	19				36			
	Lightening impulse (1.2×50μs)	Up (kV)	60				95			
Rated short-time withstand current	Isc (kA)		25		31.5		25		31.5	
Rated normal current	Ir (A)		1200	2000	1200	2000	1200	2000	1200	2000
Rated frequency	fr (Hz)		60	60	60	60	60	60	60	60
Rated momentary withstand current	Ip (kA) at 60 Hz		65	65	81.9	81.9	65	65	81.9	81.9

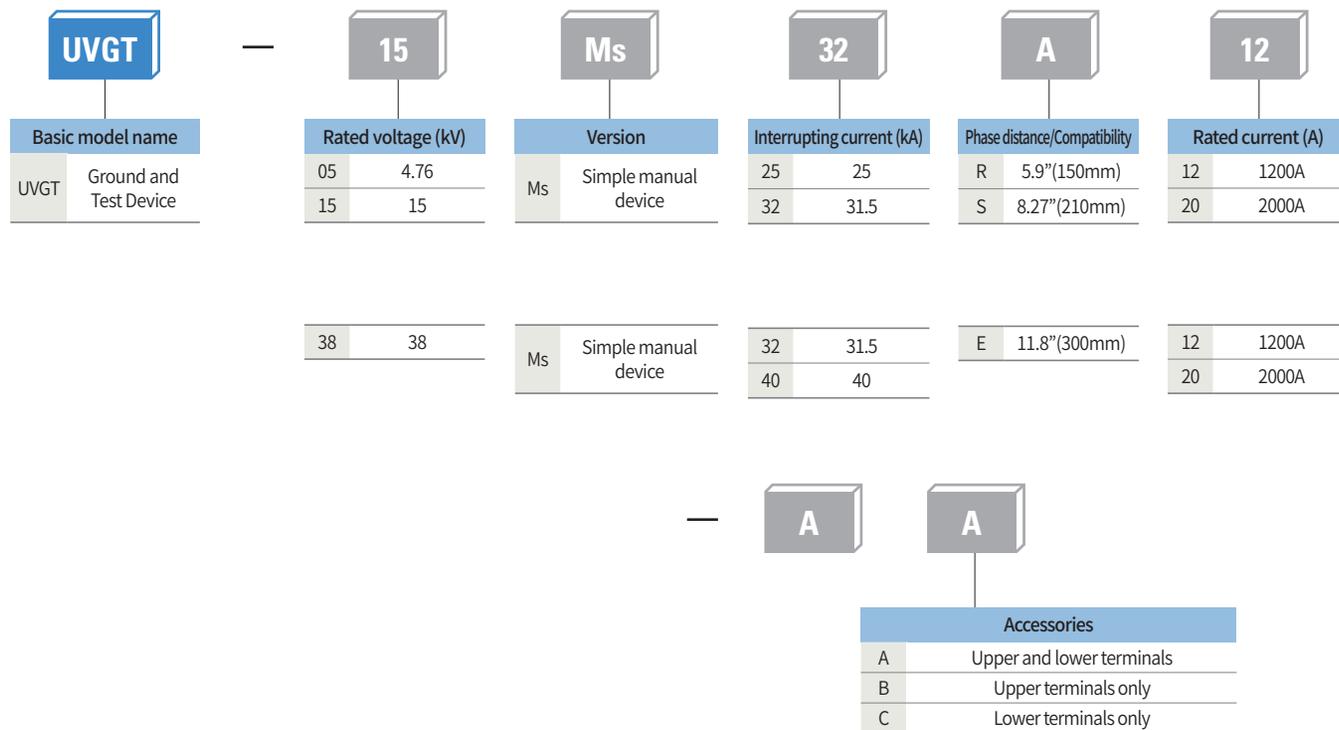
G&T for S38 ANSI AR & Non-AR

Model: UVGT, Simple manual device type

GT type			UVGT-38Ms			
Rated voltage	Ur (kV)		15			
Rated withstand voltage	Power frequency (1min)	Ud (kV)	80			
	Lightening impulse (1.2×50μs)	Up (kV)	150			
Rated short-time withstand current	Isc (kA)		31.5		40	
Rated normal current	Ir (A)		1200	2000	1200	2000
Rated frequency	fr (Hz)		60	60	60	60
Rated short-circuit making current	Ip (kA) at 60 Hz		81.9	81.9	104	104

Description

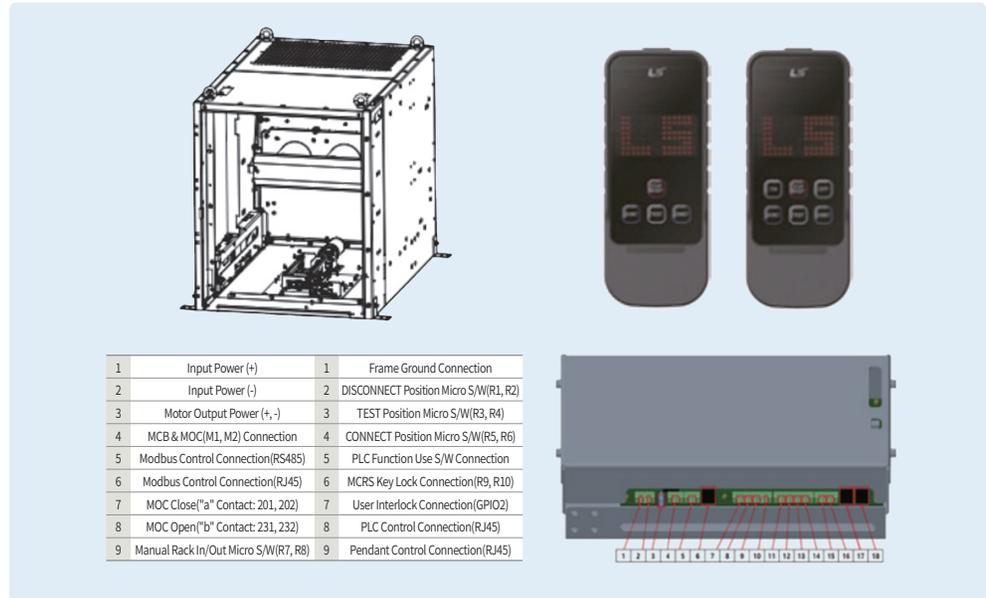
UVGT type



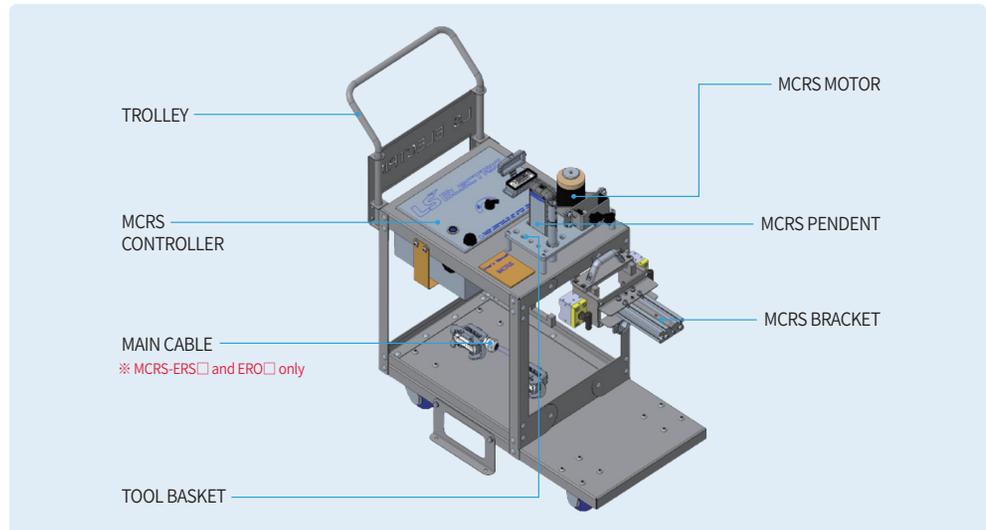
Motorized Control Racking System (MCRS)

Motorized control racking provides a safer operating environment by increasing the distance between the operator and the arc flash incident energy at the switchgear site.

Internal Motor Type



External Motor Type



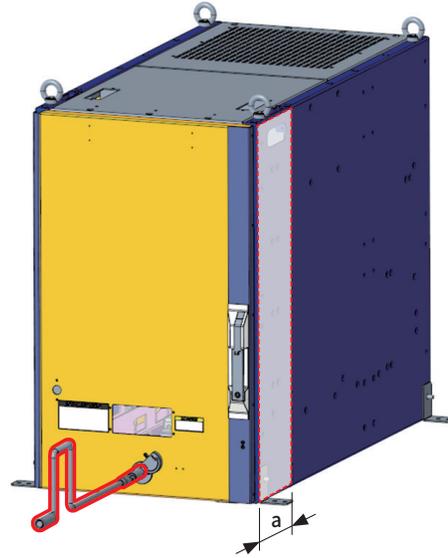
Type	Control Power	Item Code	Remote Racking	VCB Status	VCB On / Off
MCRS-ERXA	AC120V/DC125V	72313181307	●		
MCRS-ERXB	AC240V/DC250V	72313181308	●		
MCRS-ERSA <small>Note</small>	AC120V/DC125V	Contact Sales person	●	●	
MCRS-ERSB <small>Note</small>	AC240V/DC250V	Contact Sales person	●	●	
MCRS-EROA <small>Note</small>	AC120V/DC125V	Contact Sales person	●	●	●
MCRS-EROB <small>Note</small>	AC240V/DC250V	Contact Sales person	●	●	●

Note: Requires additional cable work on switchgear to use the ERS□/ERO□ types. Please contact LSE sales team.

VCB handles

UVCM/UVCH-05/15/27 C,H type

- LS ELECTRIC's Susol UL VCB has two types of the compartment.
 - C-type : Conventional type of compartment (No space between panel door and CB)
 - H-type : New type of compartment which includes 10" space between panel door and CB for LV control panel.
- The type of compartment must be considered before choosing the racking in/out handle.
 - C-type: No space between the door and CB.
 - H-type: 10" space exist between the door and CB.



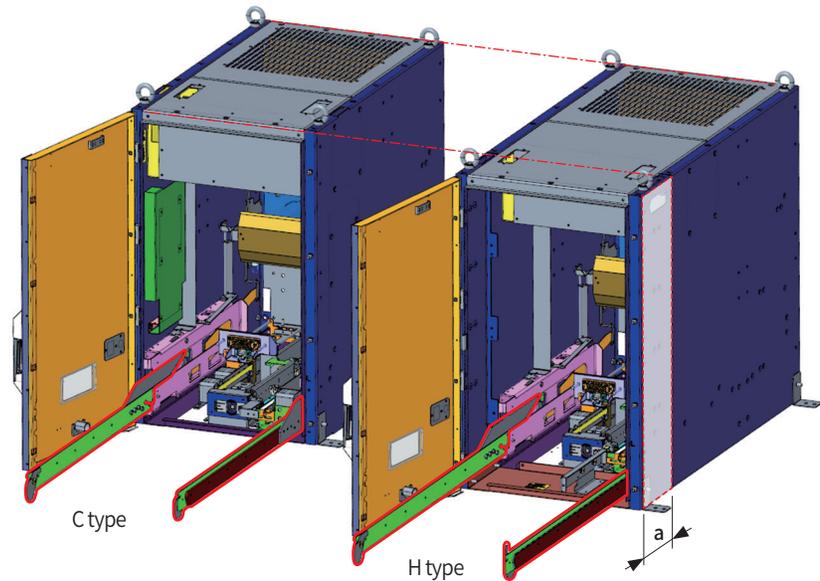
Compartment	Description	Code	Appearance	UVCM Series		UVCH Series									
				UVCM-05/15/27		UVCH-05/15				UVCH-27					
				Rated Current		Rated Current				Rated Current					
				1200	2000	1200	2000	3000	4000	1200	2000	2500	2750		
C	Racking in/out handle for Manual Type	55223181003			●	●	●	●	●			●	●	●	●
	Racking in/out handle for Motorized Control Racking System	55223181004			●	●	●	●	●			●	●	●	●
H	Racking in/out handle for Manual Type	55223181001			●	●	●	●	●			●	●	●	●
	Racking in/out handle for Motorized Control Racking System	55223181002			●	●	●	●	●			●	●	●	●
	Racking in/out handle for Manual Type	55223181003									●				
	Racking in/out handle for Motorized Control Racking System	55223181004									●				

Accessories

Extension rail

UVCM/UVCH-05/15/27 C,H type

- LS ELECTRIC's Susol UL VCB has two types of the compartment.
 - C-type : Conventional type of compartment (No space between panel door and CB)
 - H-type : New type of compartment which includes 10" space between panel door and CB for LV control panel.
- The type of compartment must be considered before choosing the racking in/out handle.
 - C-type: No space between the door and CB.
 - H-type: 10" space exist between the door and CB.



Type	Rating	Code	Appearance
C	4.76, 15 kV	59023181003	
	27 kV		
H	4.76, 15 kV	59023181009	
	27 kV		

VCB lifting bracket set

S5/15 UL Non-AR 4000A, S27 UL Non-AR

- Lifting bracket set is used to lift the VCB using a hoist or crane.
- These accessories are for the Susol UL VCB 4.76/15kV 4000A and 38kV series.
- The other rating of Susol UL VCB includes lifting eyes or eye bolts.

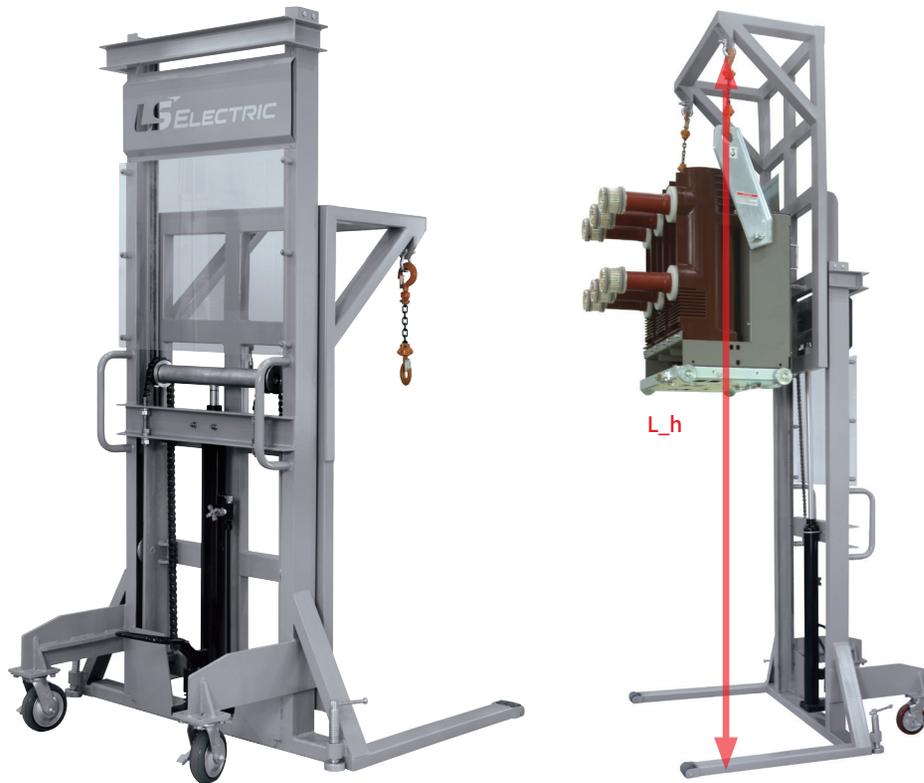


Rating	Code	Appearance
4.76/15kV 4000A	Left 75123173981	
	Right 75123173982	
27kV	Left 75123181011	
	Right 75123181010	
38kV	Left 75123173166	
	Right 75123173165	

Accessories

VCB lifter

- The VCB lifter is for LS ELECTRIC's Susol UL VCB.
- The VCB lifter manually hoists the VCB to place it on the extension rail for racking in or to set it on the ground.



Lifter for S5/15 UL Non-AR up to 3000A

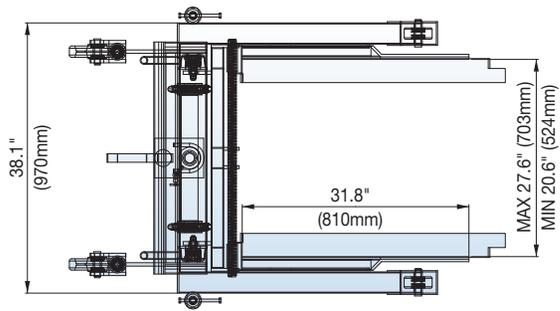
Item code	Property	Rating
02660000311	Size (Normal, W×D×H)	48.4"×53.1"×102.4" / 1230×1349×2600(mm)
	Maximum height of lift (L_h)	121.7"(3090mm)
	Maximum weight of load	881.85lb(400kg)

Lifter for S5/15 UL Non-AR 4000A, S27 UL Non-AR

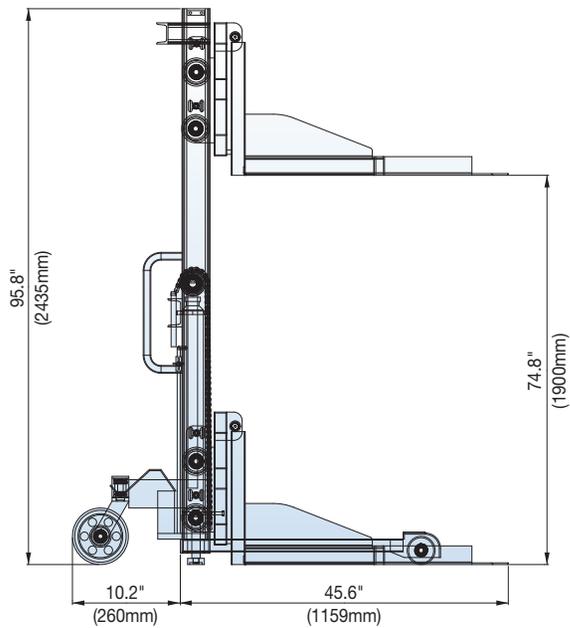
Item code	Property	Rating
02660000301	Size (Normal, W×D×H)	48.4"×53.1"×96.5" / 1230×1349×2450(mm)
	Maximum height of lift (L_h)	131.7"(3345mm)
	Maximum weight of load	881.85lb(400kg)

[Unit: inch(mm)]

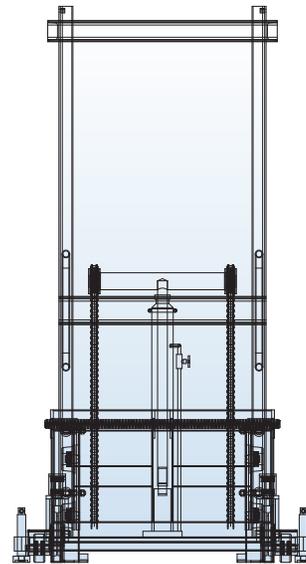
Top view



Side view



Front view



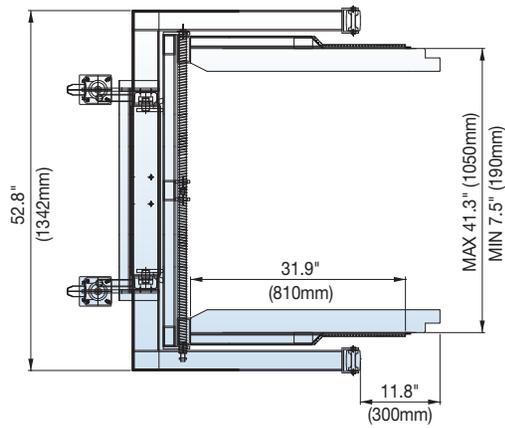
Lifter for S5/15 UL AR

Item code	Property	Rating
02660000284	Size (Normal, W×D×H)	38.1"×55.8"×95.8" / 970×1419×2435(mm)
	Maximum height of lift (L_h)	74.8"(1900mm)
	Maximum weight of load	992.08lb(450kg)

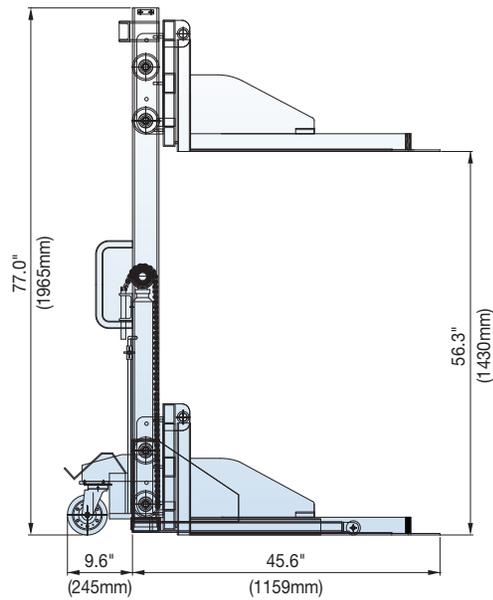
Accessories

Top view

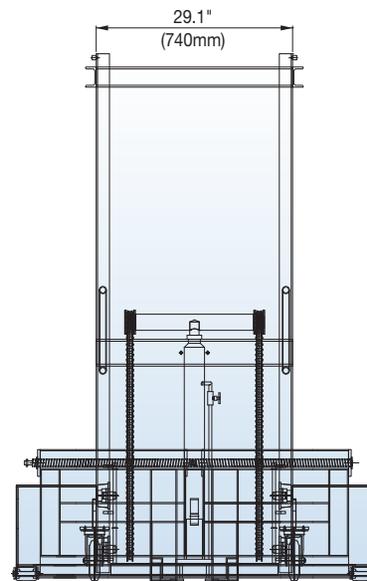
[Unit: inch(mm)]



Side view



Front view

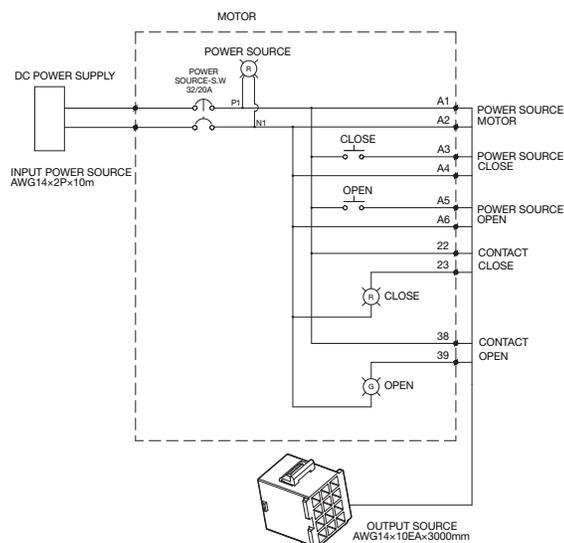
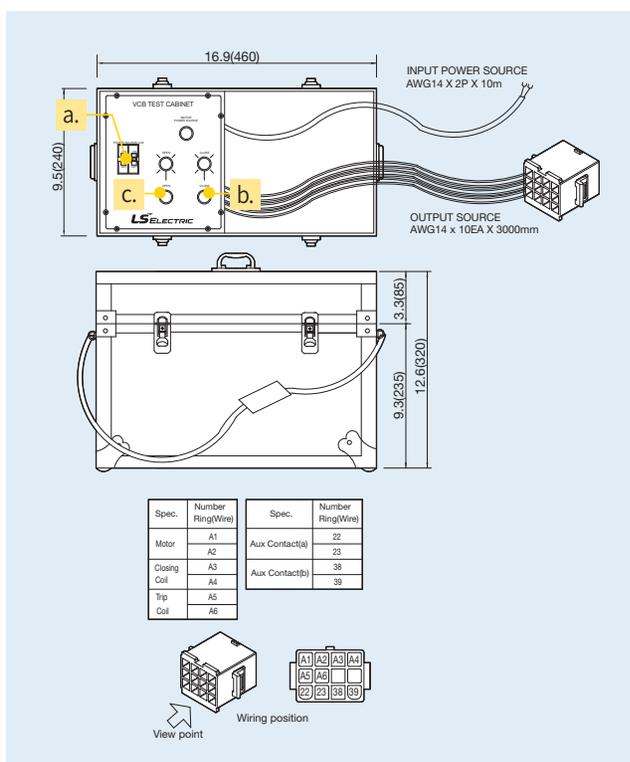


Lifter for S38 ANSI AR & Non-AR

Item code	Property	Rating
02660000284	Size (Normal, W×D×H)	52.8"×55.3"×77.4" / 1342×1404×1965(mm)
	Maximum height of lift (L_h)	56.3"(1430mm)
	Maximum weight of load	992.08lb(450kg)

Test cabinet

- The test cabinet is the device which operates “CLOSE” and “OPEN” when the VCB is racking out from the switchgear for maintenance or test.
- The power supply is not included.
- The connectors for each Susol UL VCB are included.



<Circuit diagram>

- a. Test Cabinet Power Switch
- b. Close Push Button
- c. Trip Open Push Button

Item code	Description
52763181005	DEVICE,VCB TEST CABINET,AC/DC 100V-AC/DC 250V,UL
52763181006	DEVICE,VCB TEST CABINET,DC24V,DC48V~60V,AC48V,UL

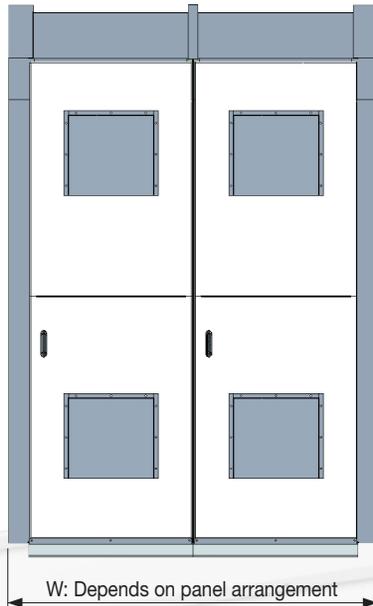
Outdoor enclosure

■ Front view

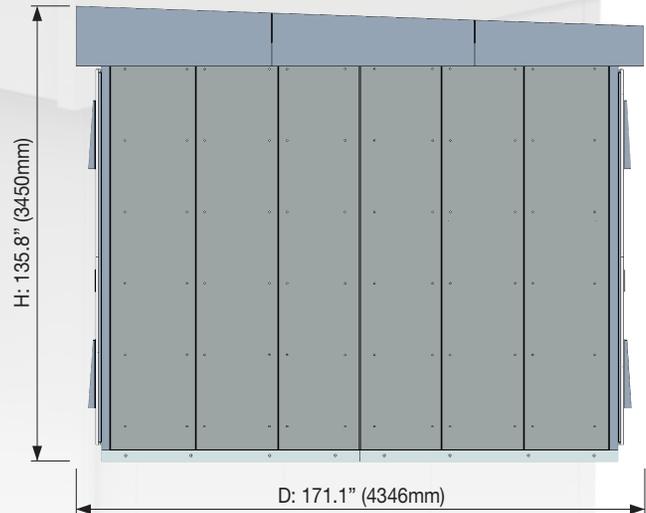
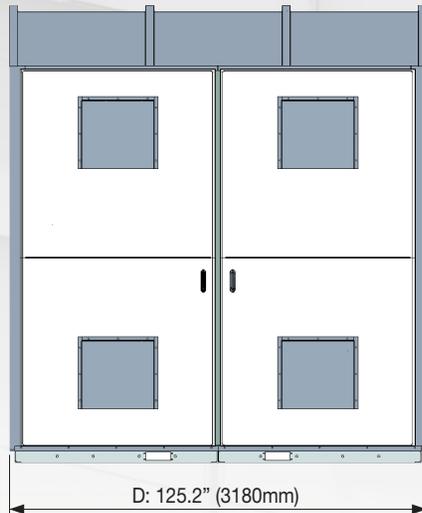
■ Side view

[Unit: inch(mm)]

Typical type ^{Note}



Wrapping type ^{Note}



Notes:

1. The above shows the maximum dimensions of the outdoor enclosure.
2. Typical type: Each single section is a NEMA 3R structure.
3. Wrapping type: NEMA 1 structure enclosed within an outdoor enclosure.

Partnership



Contents

▪ Business model	116
▪ Support and services	119

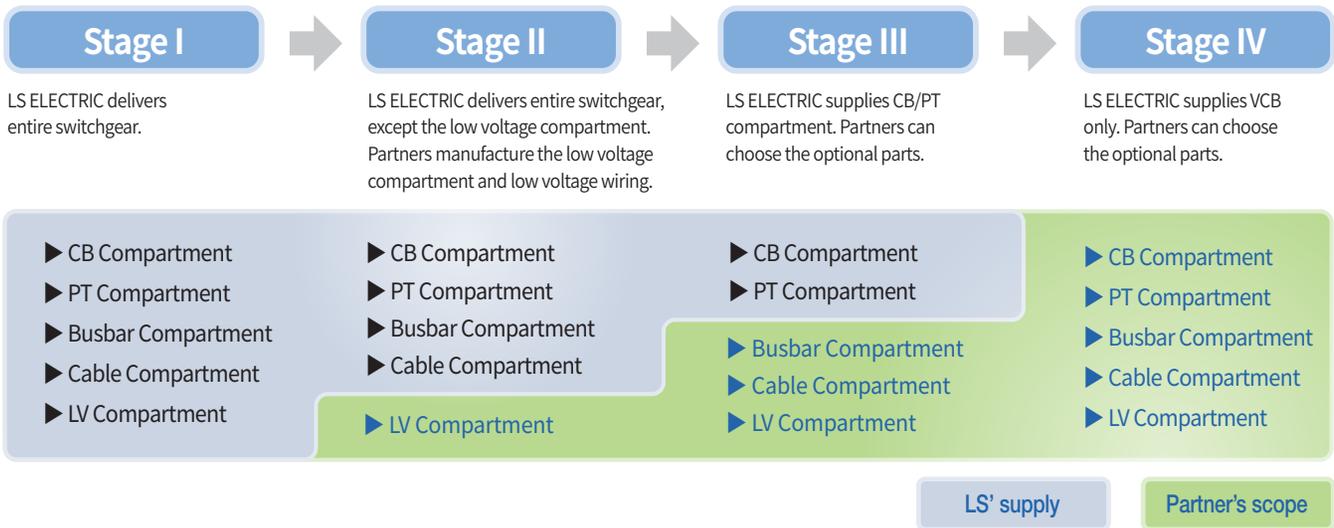
Business model

LS provides MCSG business solutions to customers in a wide range of markets in industrial and commercial sectors.

Product range

4.76kV~38kV Medium Voltage Metal Clad Switchgears

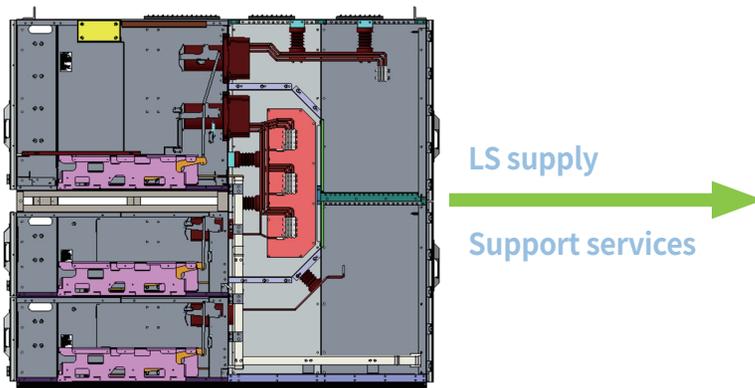
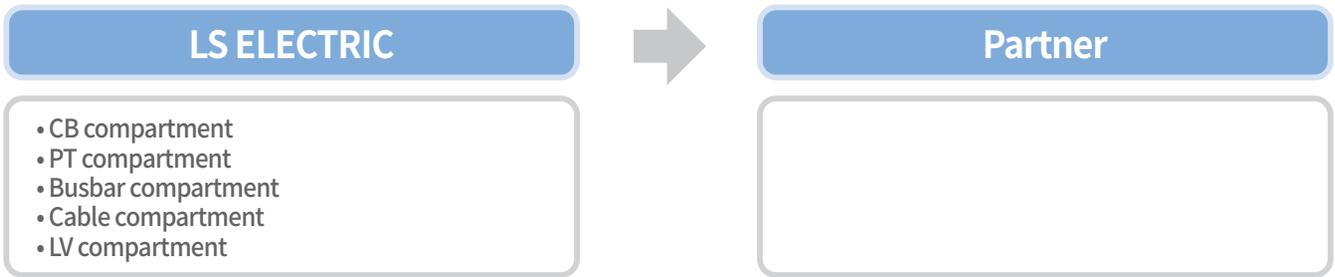
Phases of supplying scope



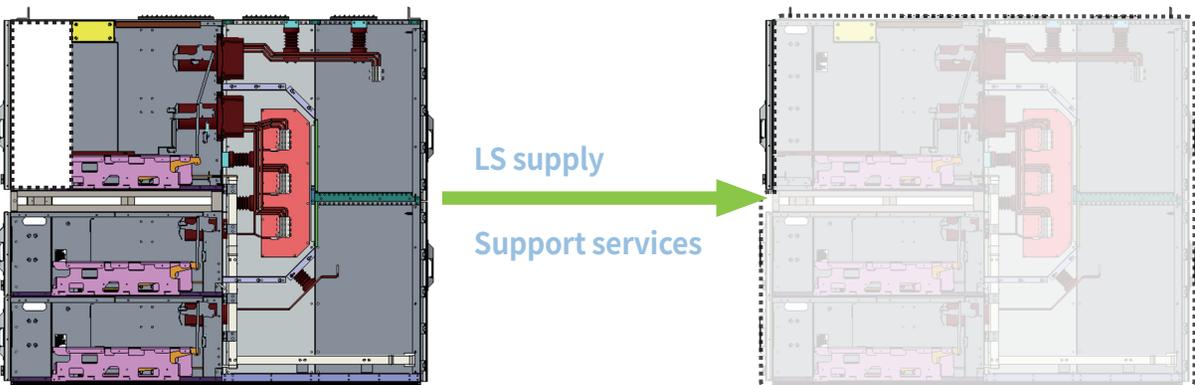
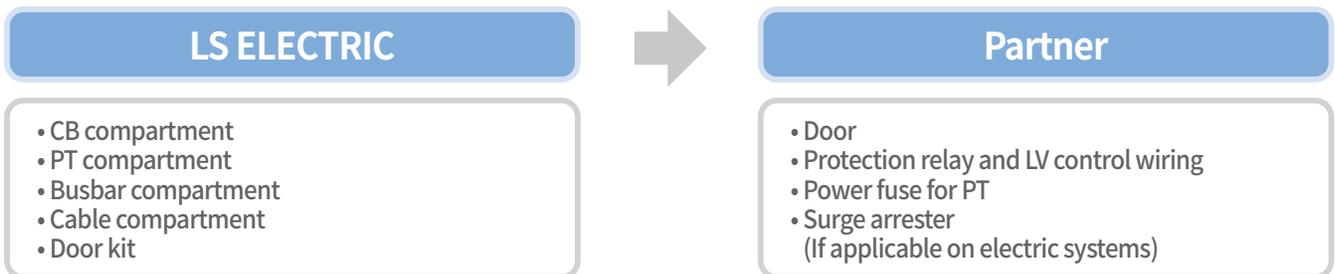
Support Services

- Technical consulting
- Technical specification and drawings
- Assembly guide / manual
- QC process drawing
- Technical, assembly and inspection training

Stage I

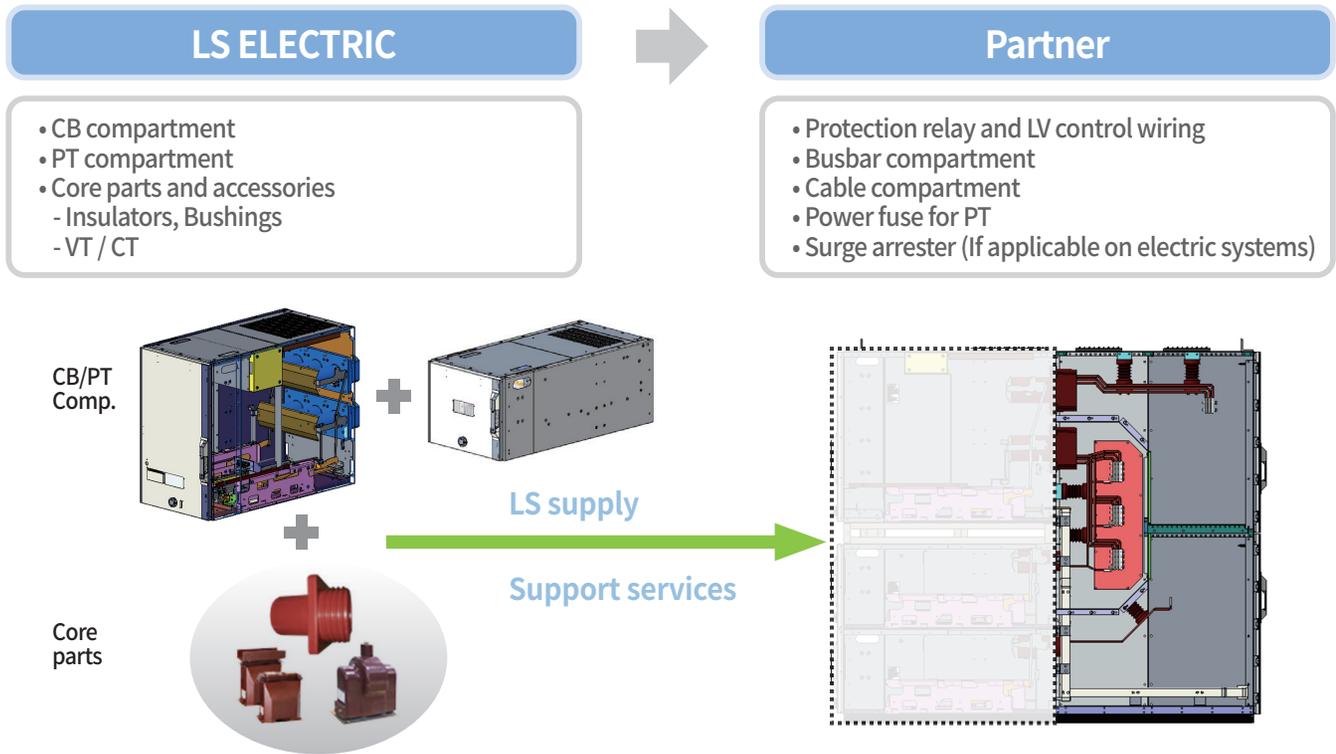


Stage II

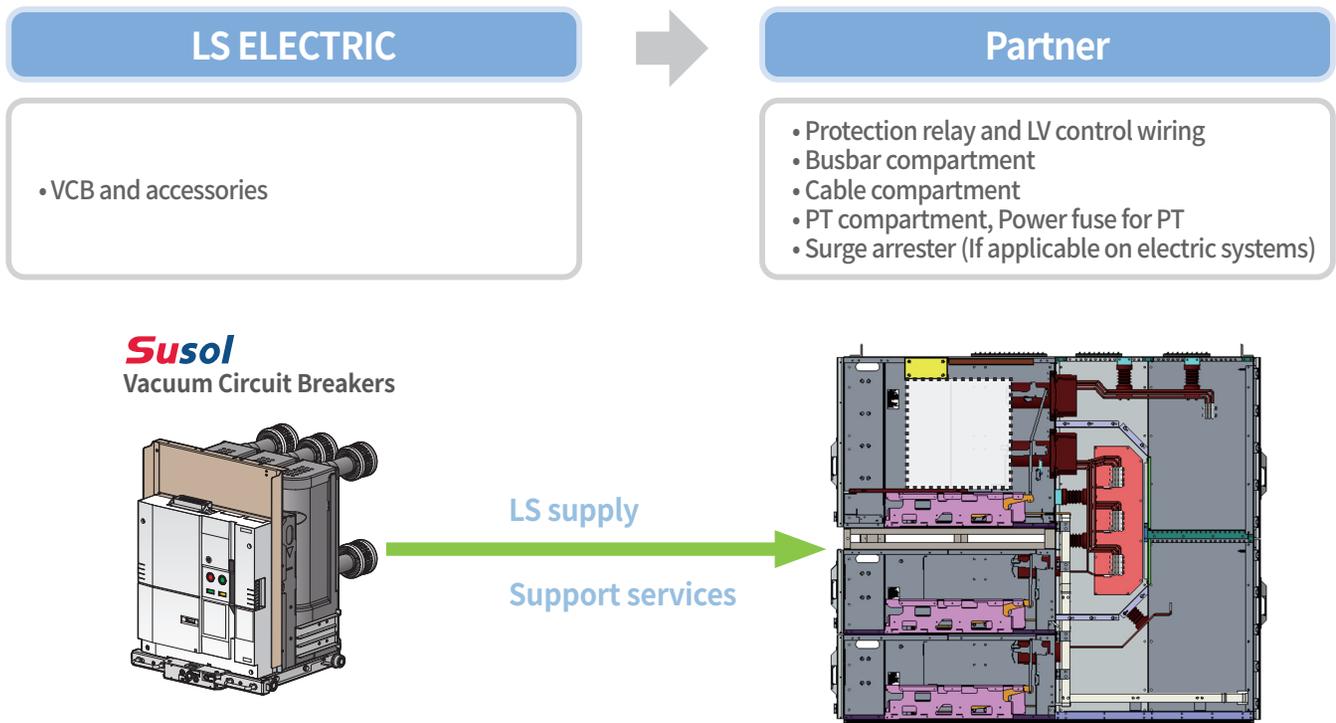


Business model

Stage III



Stage IV



Support and technical assistance are provided across multiple stages of business.

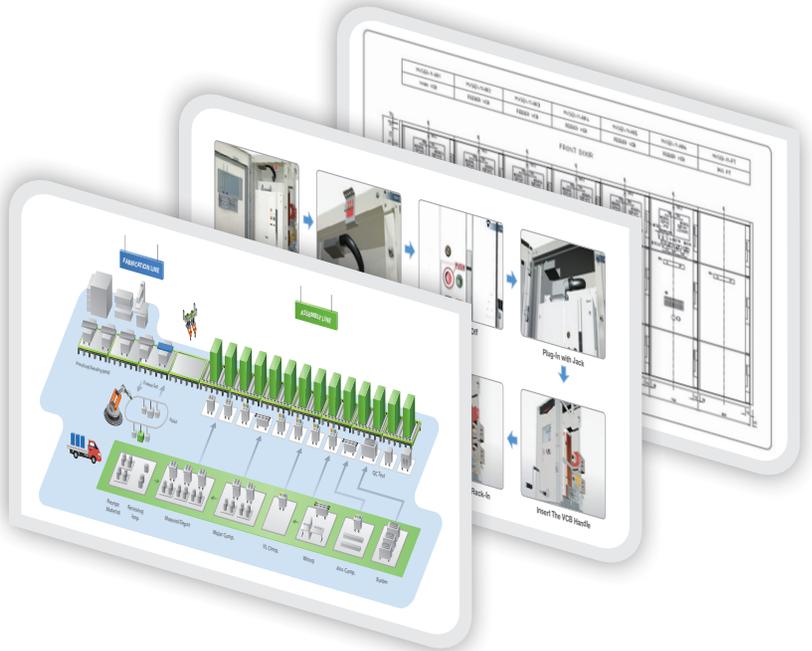
Technical documentation

- Design drawings
- Assembly guide / manual
- Operation and maintenance

Production training and support

- Technical training
- Assembly training
- Inspection training

Test certificates



Technical documentation

- Design drawings
- Assembly guide / manual
- Operation and maintenance

Production training and support

- Technical training
- Assembly training
- Inspection training

Test certificates

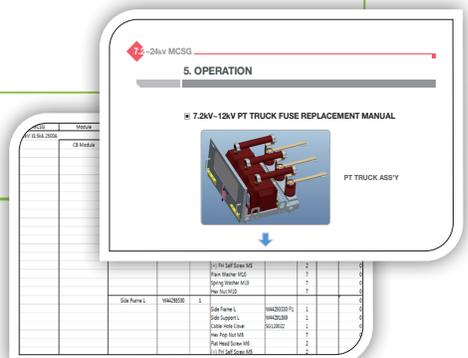
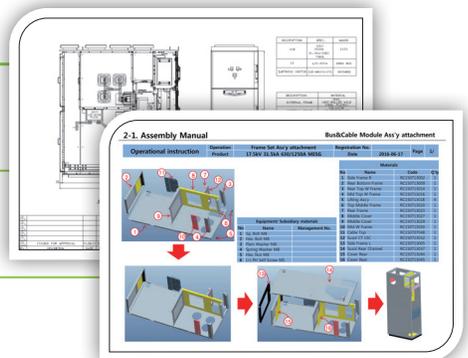
Design drawings

Bill of material

Assembly guide

Operation manual

Maintenance manual



Support and services

Support and technical assistance are provided across multiple stages of business.

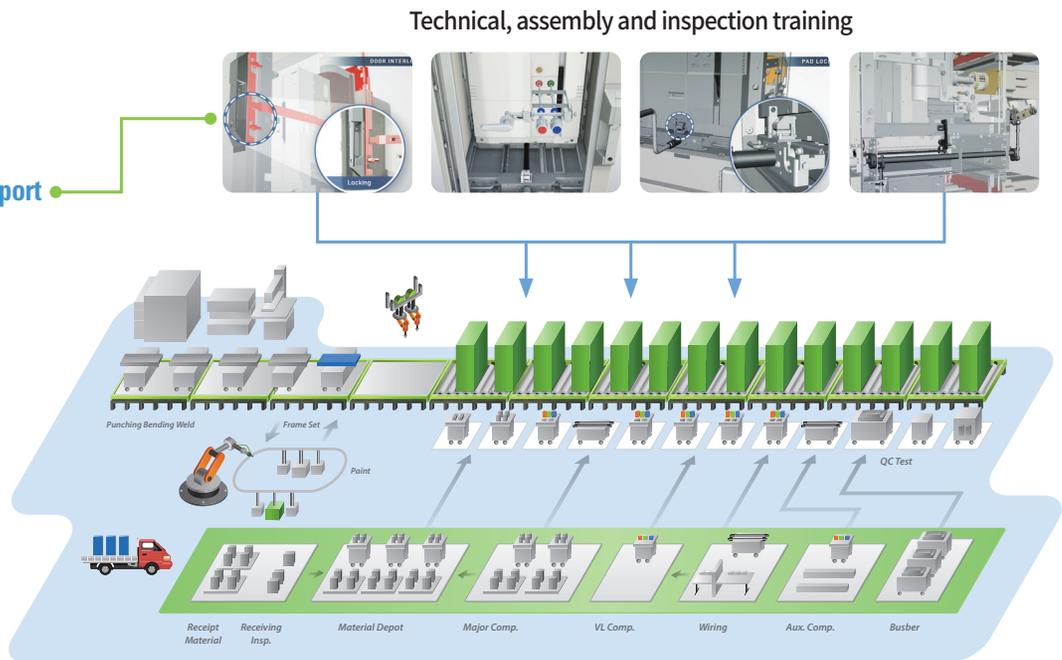
Technical documentation

- Design drawings
- Assembly guide / manual
- Operation and maintenance

Production training and support

- Technical training
- Assembly training
- Inspection training

Test certificates



Technical documentation

- Design drawings
- Assembly guide / manual
- Operation and maintenance

Production training and support

- Technical training
- Assembly training
- Inspection training

Test certificates



MV test cell

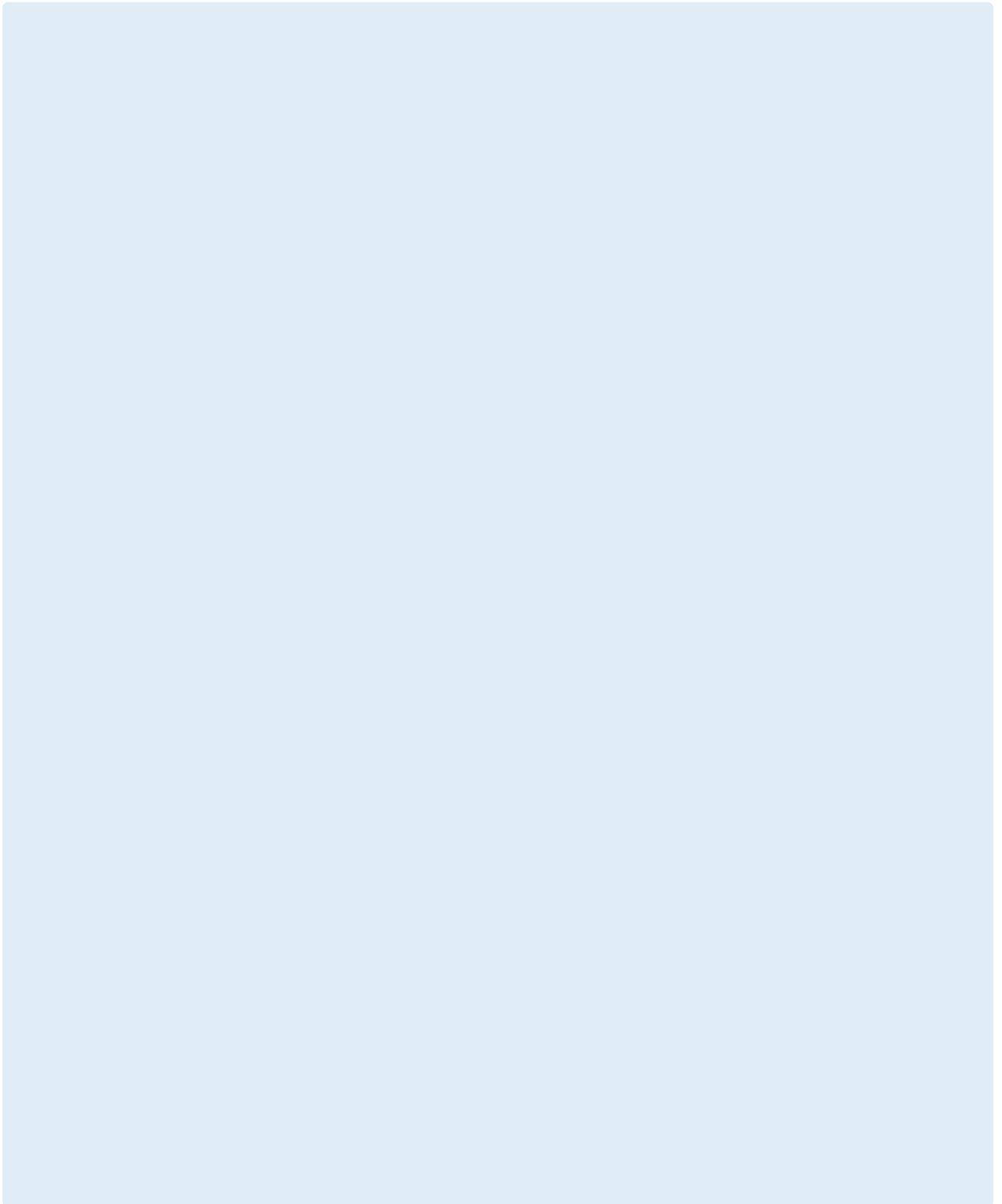
► Function

The site for testing medium-voltage circuit-breakers, switches, metal enclosed switchgear, transformers and power fuses

► Testing capability: Short-circuit test

3 ph, 7.2 kV, 63 kA 3 ph, 25.8 kV, 25 kA 3 ph, 38 kV, 16 kA

► Certificates



Global Business



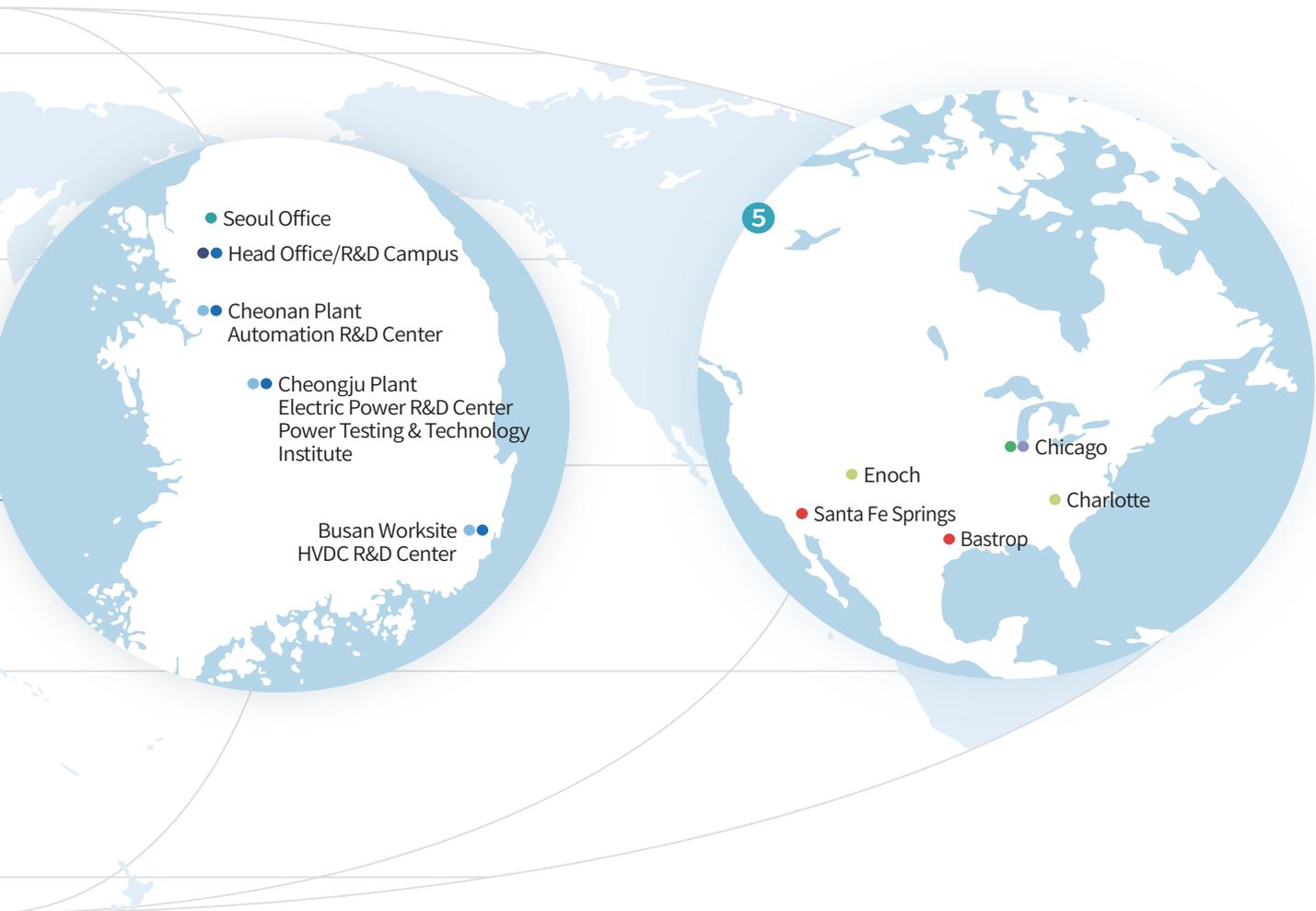
LS ELECTRIC set a mid- to long-term vision for each overseas market to broaden its global business presence. In addition to pursuing the evolution of our existing businesses, we are discovering new business opportunities and strengthening the basis of business operations to take a tailor-made approach to each local market.

<p>1 Europe</p> <p>Accelerating growth mainly in the renewable energy market</p>	<p>2 Middle East & Southwest Asia</p> <p>Strengthening direct sales through localization</p>	<p>3 China</p> <p>Strengthening business capabilities for power equipment and systems</p>
<p>4 Southeast Asia</p> <p>Focusing on the sale of strategic products and project development</p>	<p>5 North America</p> <p>Delivering global products and solutions, tapping into the Central and Latin American markets</p>	

Domestic Subsidiaries

LS Metal
Manufacturing copper tubes and STS pipes
 Yongsan-gu, Seoul, Korea

- Head Office
- Seoul Office
- Domestic Worksites
- Domestic R&D Centers
- Overseas Holding Company
- Overseas Production Subsidiaries



(as of Dec. 31, 2023)

LS Mecapion

Manufacturing industrial electronic equipment

Dalseo-gu, Daegu, Korea

LS -Sauter

Selling BAS/IBS and GBS systems

Anyang-si, Gyeonggi-do, Korea

LS ITC

Providing total IT services

Yongsan-gu, Seoul, Korea

A C & T system

Manufacturing industrial communication equipment

Anyang-si, Gyeonggi-do, Korea

Anyang

Yongsan

Cheongju, Cheonan, Busan

R&D Campus (Anyang), Electric Power R&D Center (Cheongju), Power Testing & Technology Institute (Cheongju), Automation R&D Center (Cheonan), HVDC R&D Center (Busan)

Shanghai (China), Chicago (US)

Wuxi (China), Dalian (China), Lishui (China), Hanoi (Vietnam), Charlotte (US), Enoch (US), Istanbul (Turkey)

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● Overseas Branches

● Overseas R&D Center

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