



*Beyond* X

™ Metal-Enclosed  
Load Interrupter  
Switchgear



**LS** ELECTRIC

LS ELECTRIC's metal-enclosed load interrupter switchgear functions as a large switch that enables or interrupts power flow, providing reliable medium-voltage protection from 4.76 kV to 15 kV.





# Metal-Enclosed Load Interrupter Switchgear

## Contents

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### Metal-Enclosed Load Interrupter Switchgear

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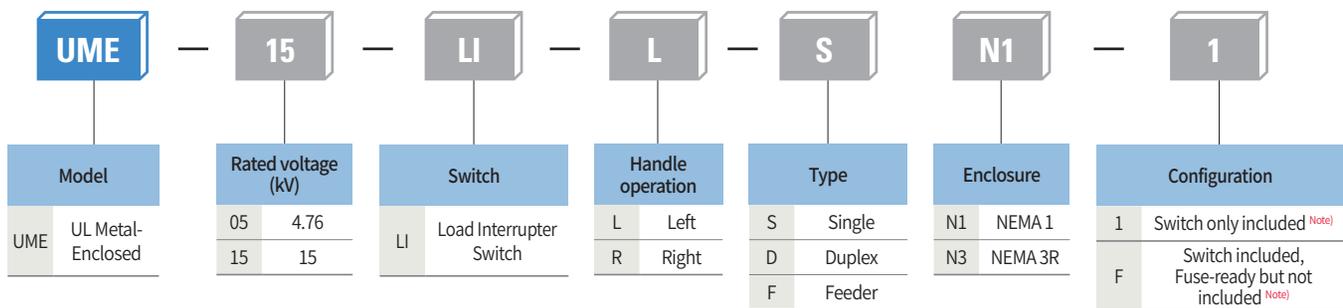
# Ratings and description

## Ratings

UME-05/15 c 

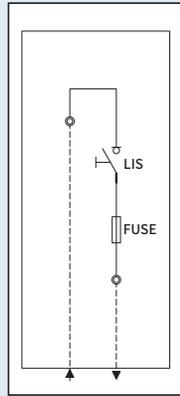
Metal-Enclosed Load Interrupter Switchgear		UME							
Maximum rated voltage	(kV)	4.76							15
Dielectric strength	(kV)	19							36
Impulse voltage	(kV)	60							95
Rated normal current	(A)	600		1200		600		1200	
Rated frequency	(Hz)	60		60		60		60	
Momentary current, peak	(kA)	65	98.8	65	98.8	65	98.8	65	98.8
Short time current, RMS Sym.	(kA)	25	38	25	38	25	38	25	38
Short time duration	(3sec)	●	●	●	●	●	●	●	●
Standard		IEEE C37.20.3, ANSI C37.57, CSA C22.2 No. 31							

## Designation

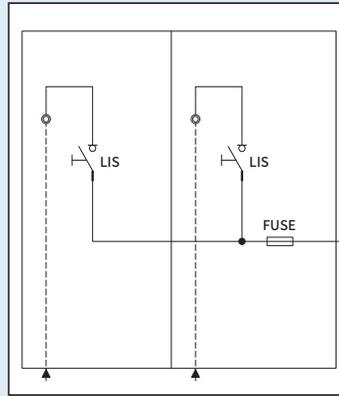


Note: A fuse kit and barrier are required for fuse installation (see page 43 for details). For information about other available fuse options, please contact the LS ELECTRIC sales team.

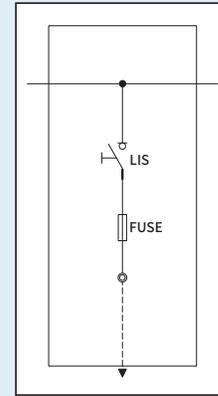
# Configurations



Single



Duplex



Feeder

Rated voltage	Type	Enclosure	Handle operation	Dimensions [W x D x H]	Item code	Description	
4.76kV	Single	NEMA 1	Left	36" x 54.5" x 90"	90150000567	UME-05-LI-L-SN1-1	
	Single	NEMA 1	Right	36" x 54.5" x 90"	90150000565	UME-05-LI-R-SN1-1	
	Single	NEMA 3R	Left	36" x 61" x 100"	90150000568	UME-05-LI-L-SN3-1	
	Single	NEMA 3R	Right	36" x 61" x 100"	90150000566	UME-05-LI-R-SN3-1	
	Duplex	NEMA 1	Left	Left	36" x 54.5" x 90"	90150000561	UME-05-LI-L-DN1-1 <i>Note</i>
					36" x 54.5" x 90"	90150000562	UME-05-LI-L-DN1-F
	Duplex	NEMA 1	Right	Right	36" x 54.5" x 90"	90150000557	UME-05-LI-R-DN1-1 <i>Note</i>
					36" x 54.5" x 90"	90150000558	UME-05-LI-R-DN1-F
	Duplex	NEMA 3R	Left	Left	36" x 61" x 100"	90150000563	UME-05-LI-L-DN3-1 <i>Note</i>
					36" x 61" x 100"	90150000564	UME-05-LI-L-DN3-F
	Duplex	NEMA 3R	Right	Right	36" x 61" x 100"	90150000559	UME-05-LI-R-DN3-1 <i>Note</i>
					36" x 61" x 100"	90150000560	UME-05-LI-R-DN3-F
	Feeder	NEMA 1	Left	Left	36" x 54.5" x 90"	90150000555	UME-05-LI-L-FN1-1
					36" x 54.5" x 90"	90150000553	UME-05-LI-R-FN1-1
Feeder	NEMA 3R	Left	Left	36" x 61" x 100"	90150000556	UME-05-LI-L-FN3-1	
				36" x 61" x 100"	90150000554	UME-05-LI-R-FN3-1	
15kV	Single	NEMA 1	Left	36" x 54.5" x 90"	90150000287	UME-15-LI-L-SN1-1	
	Single	NEMA 1	Right	36" x 54.5" x 90"	90150000285	UME-15-LI-R-SN1-1	
	Single	NEMA 3R	Left	36" x 61" x 100"	90150000288	UME-15-LI-L-SN3-1	
	Single	NEMA 3R	Right	36" x 61" x 100"	90150000286	UME-15-LI-R-SN3-1	
	Duplex	NEMA 1	Left	Left	36" x 54.5" x 90"	90150000293	UME-15-LI-L-DN1-1 <i>Note</i>
					36" x 54.5" x 90"	90150000294	UME-15-LI-L-DN1-F
	Duplex	NEMA 1	Right	Right	36" x 54.5" x 90"	90150000289	UME-15-LI-R-DN1-1 <i>Note</i>
					36" x 54.5" x 90"	90150000290	UME-15-LI-R-DN1-F
	Duplex	NEMA 3R	Left	Left	36" x 61" x 100"	90150000295	UME-15-LI-L-DN3-1 <i>Note</i>
					36" x 61" x 100"	90150000296	UME-15-LI-L-DN3-F
	Duplex	NEMA 3R	Right	Right	36" x 61" x 100"	90150000291	UME-15-LI-R-DN3-1 <i>Note</i>
					36" x 61" x 100"	90150000292	UME-15-LI-R-DN3-F
	Feeder	NEMA 1	Left	Left	36" x 54.5" x 90"	90150000311	UME-15-LI-L-FN1-1
					36" x 54.5" x 90"	90150000309	UME-15-LI-R-FN1-1
	Feeder	NEMA 3R	Left	Left	36" x 61" x 100"	90150000312	UME-15-LI-L-FN3-1
					36" x 61" x 100"	90150000310	UME-15-LI-R-FN3-1

Note: These models do not support fuse installation

# Dimensions

## Single type

[Unit: in(mm)]

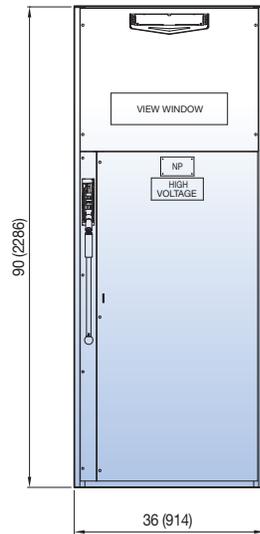
### NEMA 1

(Left Operation)

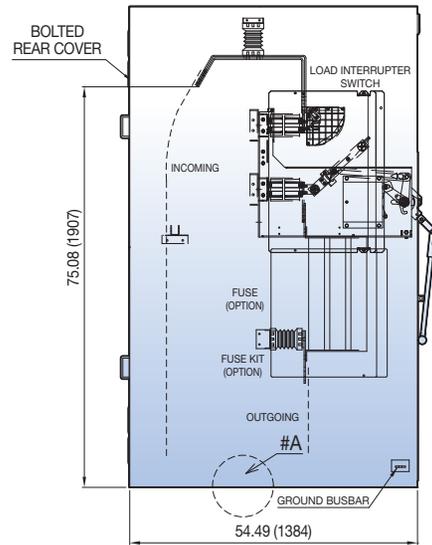
#### Model

UME-05-LI-L-SN1-1  
 UME-15-LI-L-SN1-1

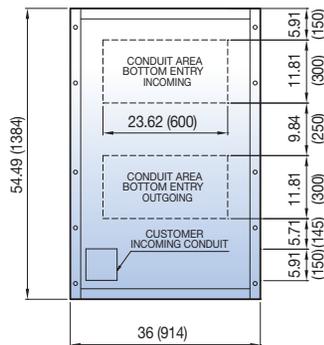
FRONT VIEW



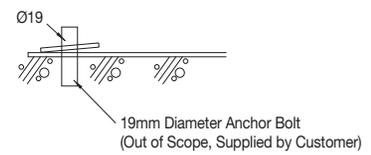
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



## Single type

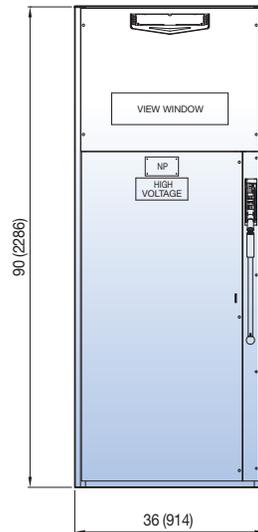
[Unit: in(mm)]

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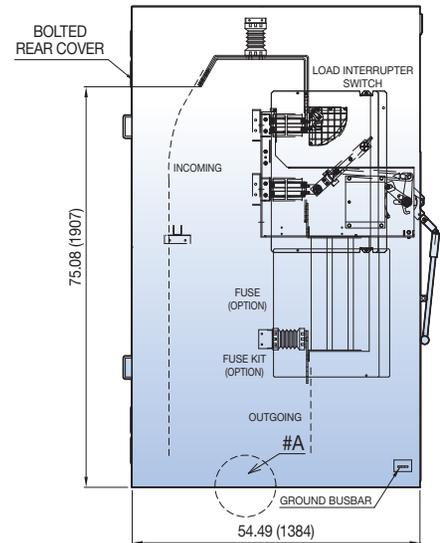
#### Model

UME-05-LI-R-SN1-1  
UME-15-LI-R-SN1-1

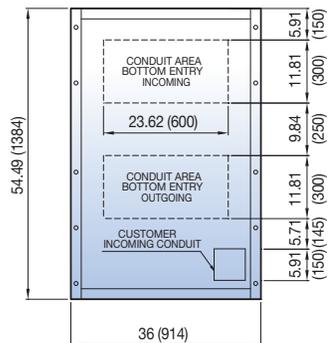
FRONT VIEW



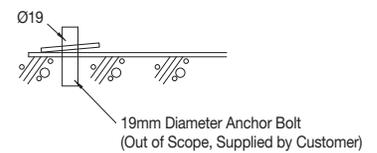
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



# Dimensions

## Single type

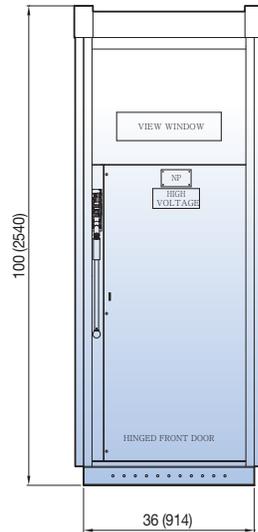
[Unit: in(mm)]

### NEMA 3R (Left Operation)

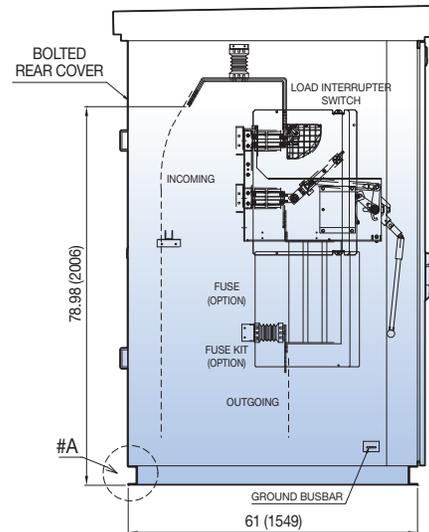
#### Model

UME-05-LI-L-SN3-1  
UME-15-LI-L-SN3-1

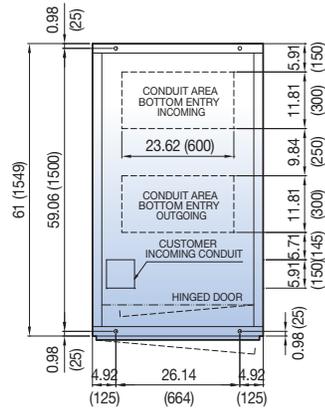
FRONT VIEW



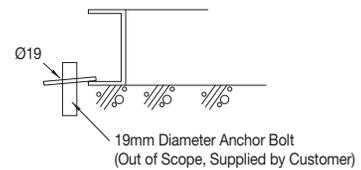
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



## Single type

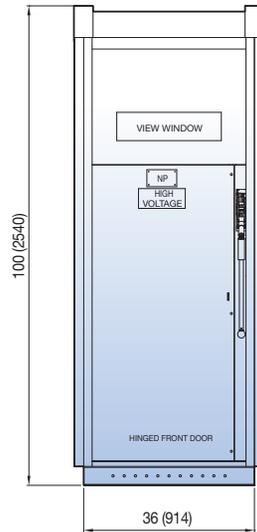
[Unit: in(mm)]

### NEMA 3R (Right Operation)

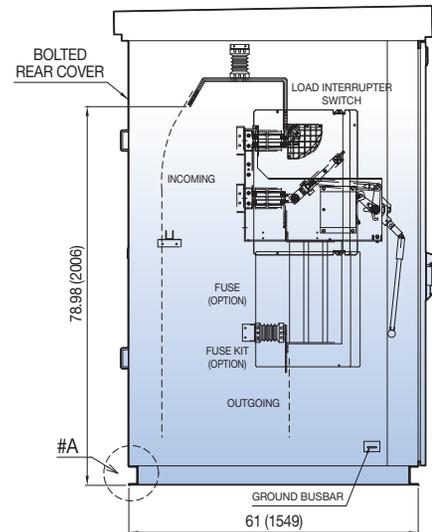
#### Model

UME-05-LI-R-SN3-1  
UME-15-LI-R-SN3-1

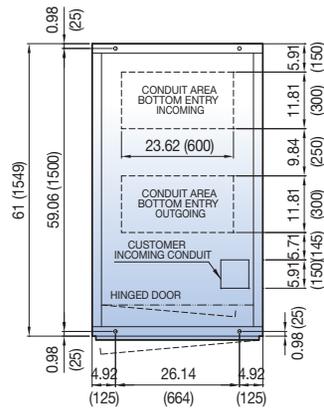
FRONT VIEW



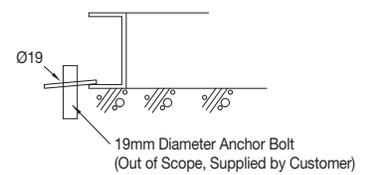
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



# Dimensions

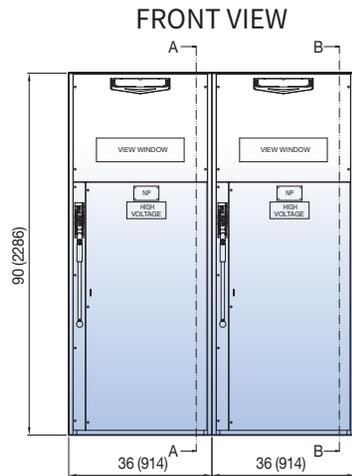
## Duplex type

[Unit: in(mm)]

### NEMA 1 (Left Operation)

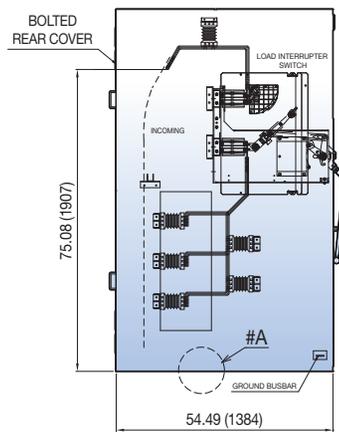
#### Model

UME-05-LI-L-DN1-1  
 UME-05-LI-L-DN1-F  
 UME-15-LI-L-DN1-1  
 UME-15-LI-L-DN1-F

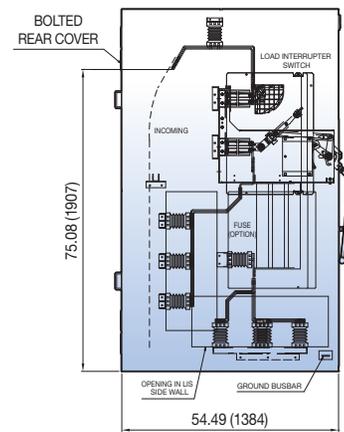


UME-05-LI-L-DN1-1 UME-05-LI-L-DN1-F  
 UME-15-LI-L-DN1-1 UME-15-LI-L-DN1-F

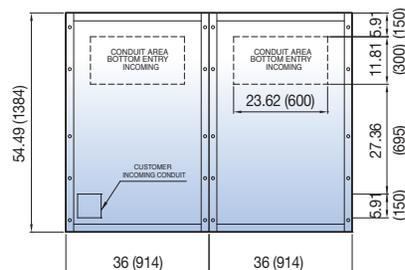
### SECTION VIEW A - A



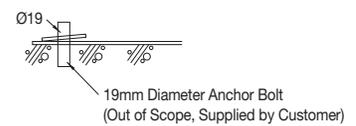
### SECTION VIEW B - B



### BASE PLAN



### #A EQUIPMENT ANCHORING



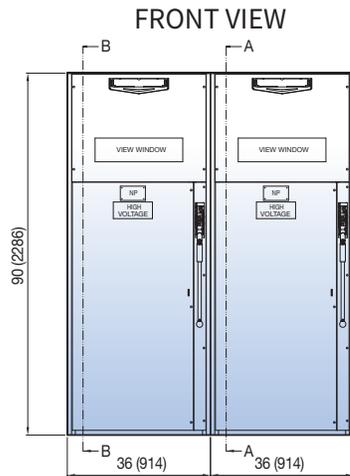
## Duplex type

[Unit: in(mm)]

### NEMA 1 (Right Operation)

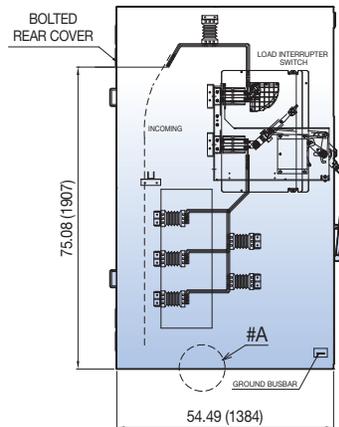
#### Model

UME-05-LI-R-DN1-1  
UME-05-LI-R-DN1-F  
UME-15-LI-R-DN1-1  
UME-15-LI-R-DN1-F

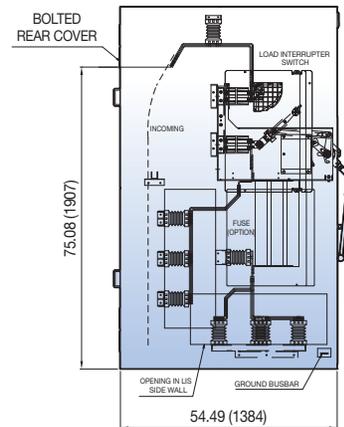


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UME-15-LI-R-DN1-F UME-15-LI-R-DN1-1

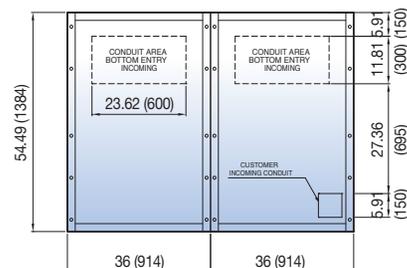
#### SECTION VIEW A - A



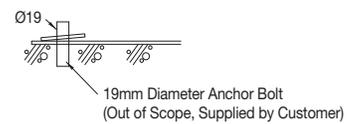
#### SECTION VIEW B - B



#### BASE PLAN



#### #A EQUIPMENT ANCHORING



# Dimensions

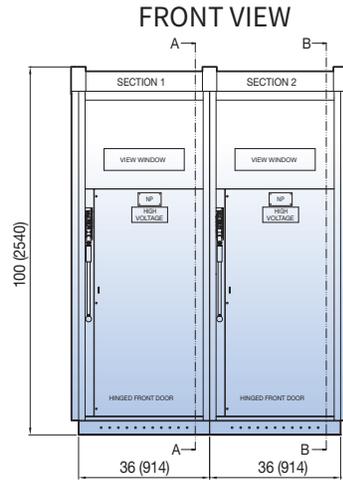
## Duplex type

[Unit: in(mm)]

### NEMA 3R (Left Operation)

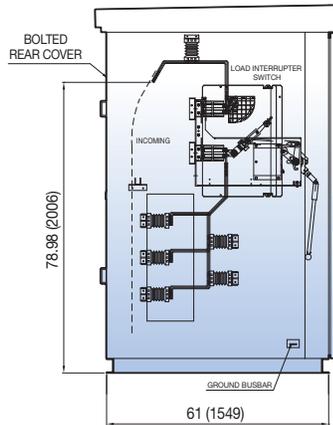
#### Model

- UME-05-LI-L-DN3-1
- UME-05-LI-L-DN3-F
- UME-15-LI-L-DN3-1
- UME-15-LI-L-DN3-F

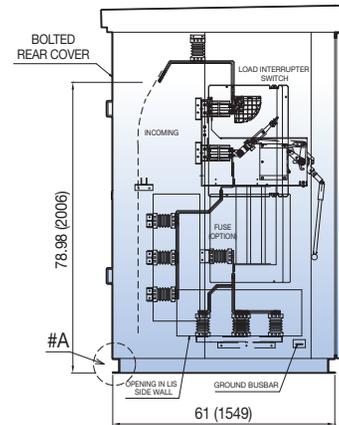


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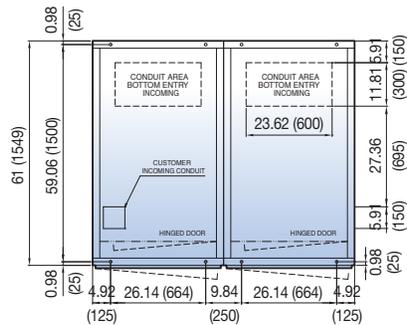
### SECTION VIEW A - A



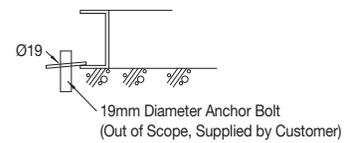
### SECTION VIEW B - B



### BASE PLAN



### #A EQUIPMENT ANCHORING



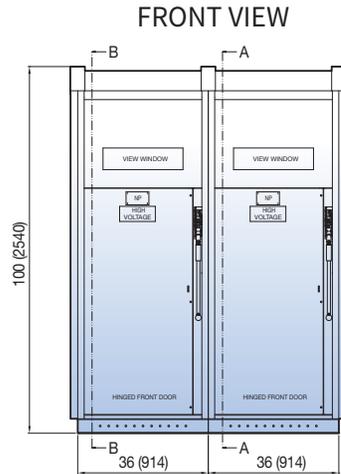
## Duplex type

[Unit: in(mm)]

### NEMA 3R (Right Operation)

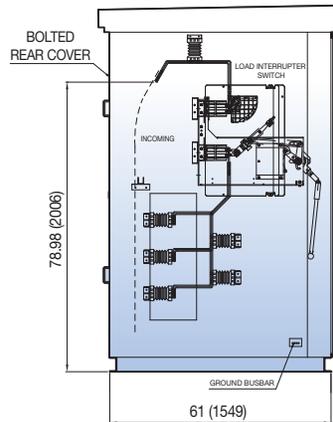
#### Model

UME-05-LI-R-DN3-1  
UME-05-LI-R-DN3-F  
UME-15-LI-R-DN3-1  
UME-15-LI-R-DN3-F

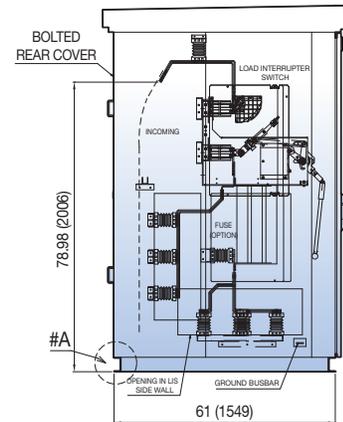


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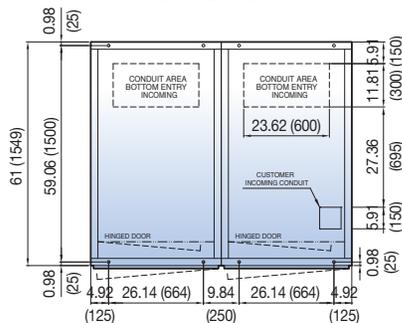
#### SECTION VIEW A - A



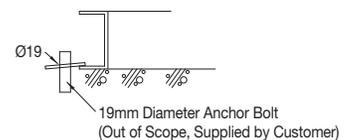
#### SECTION VIEW B - B



#### BASE PLAN



#### #A EQUIPMENT ANCHORING



# Dimensions

## Feeder type

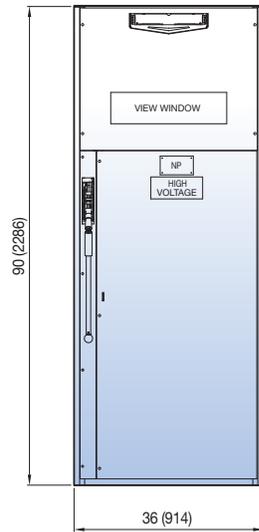
[Unit: in(mm)]

### NEMA 1 (Left Operation)

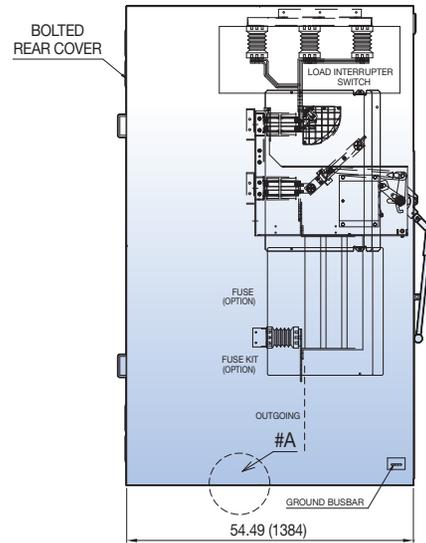
#### Model

UME-05-LI-L-FN1-1  
UME-15-LI-L-FN1-1

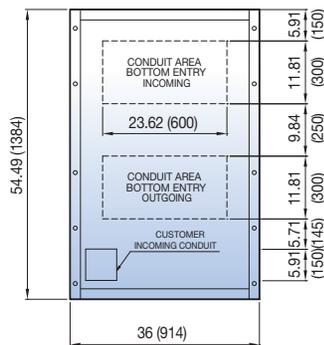
FRONT VIEW



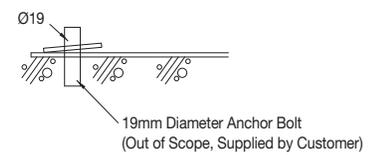
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



## Feeder type

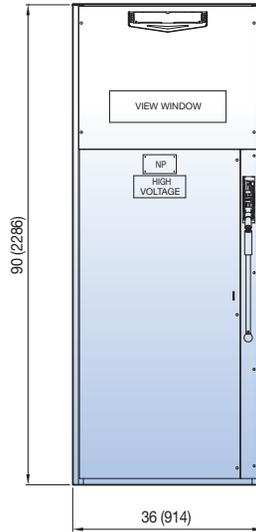
[Unit: in(mm)]

### NEMA 1 (Right Operation)

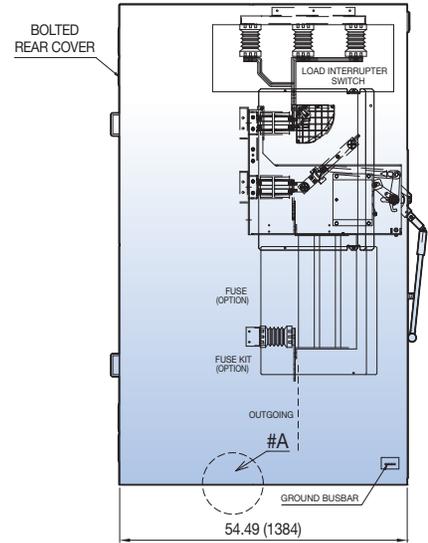
#### Model

UME-05-LI-R-FN1-1  
UME-15-LI-R-FN1-1

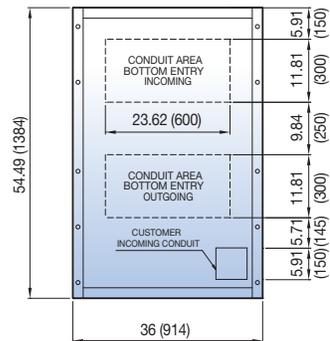
FRONT VIEW



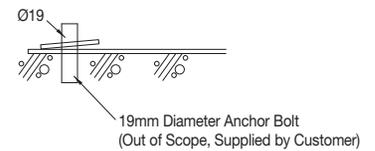
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



# Dimensions

## Feeder type

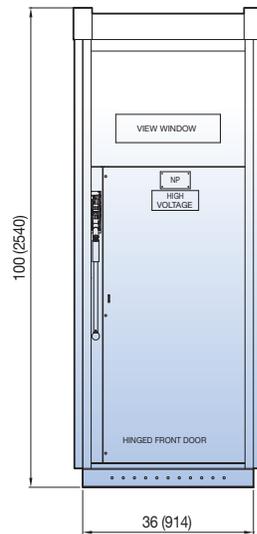
[Unit: in(mm)]

### NEMA 3R (Left Operation)

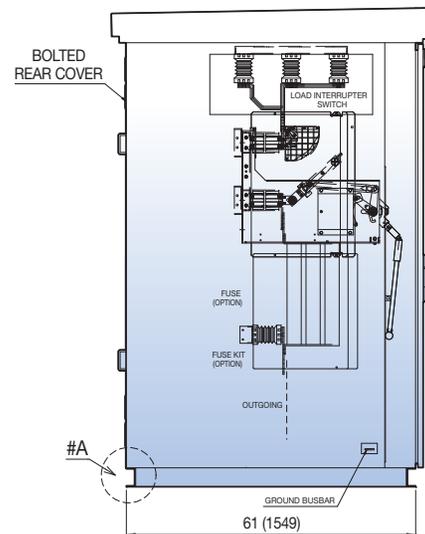
#### Model

UME-05-LI-L-FN3-1  
UME-15-LI-L-FN3-1

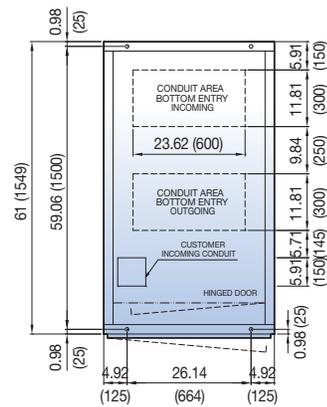
FRONT VIEW



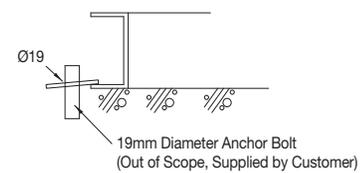
SECTION VIEW



BASE PLAN



#A EQUIPMENT ANCHORING



## Feeder type

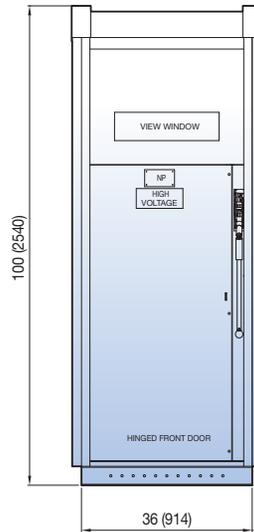
[Unit: in(mm)]

### NEMA 3R (Right Operation)

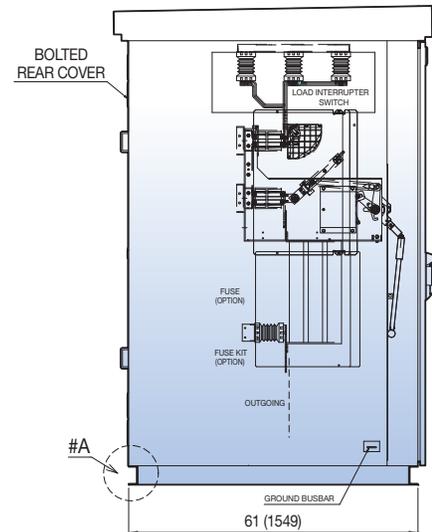
#### Model

UME-05-LI-R-FN3-1  
UME-15-LI-R-FN3-1

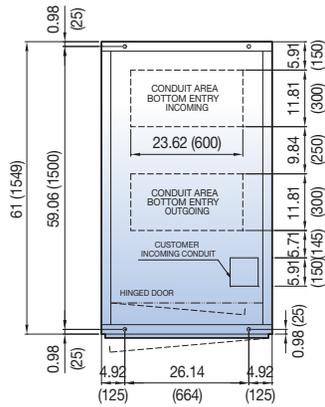
FRONT VIEW



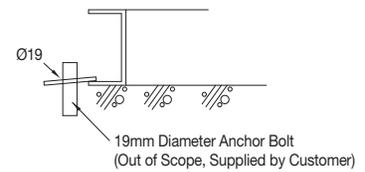
SECTION VIEW



BASE PLAN



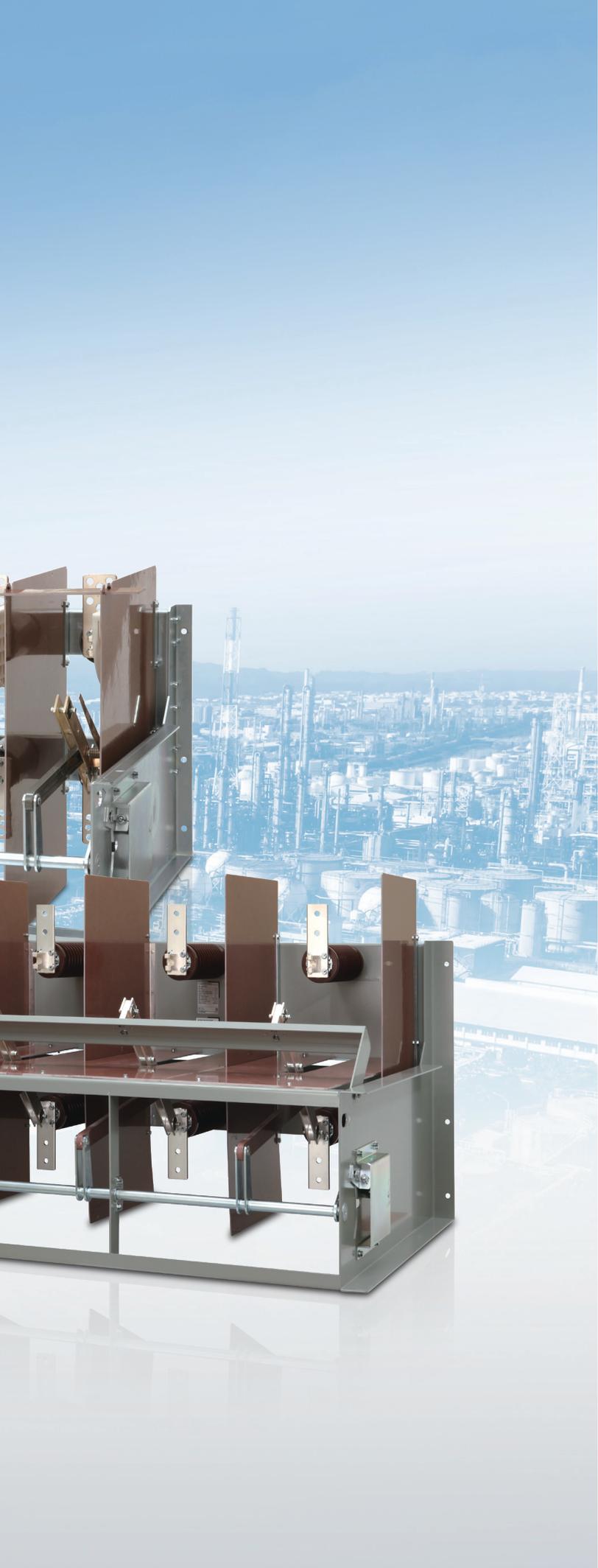
#A EQUIPMENT ANCHORING



LS ELECTRIC's Load Interrupter Switch is a three-pole load breaking switch for general applications. The LS Load Interrupter Switch provides higher symmetrical and asymmetrical interrupting ratings than those of other OEMs, with standard voltage ranges from 4.76 kV to 38 kV, making it a robust solution for medium voltage applications.

LS ELECTRIC's Load Interrupter Switch includes a heavy-duty steel frame with stand-off insulators and unique arc extinguishing system. Optional accessories and features include operating handles, a motor operator, auxiliary switches, padlock and kirk keylock.





**Susol** *Super Solution*

# Load Interrupter Switch

## Contents

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### Load Interrupter Switch

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# Ratings and description

## ULI-05/15 US

Load interrupter switch type		ULI-05				ULI-15			
Maximum rated voltage	(kV)	4.76				15			
Withstand voltage	Dielectric (1min)	19				36			
	Lightening impulse (1.2×50μs)	60				95			
Rated normal current	(A)	600		1200		600		1200	
Rated frequency	(Hz)	60		60		60		60	
Fault-making symmetrical	(kA)	25	40	25	40	25	40	25	40
Fault-making asymmetrical	(kA)	40	64	40	64	40	64	40	64
Rated peak current	(kA)	65	104	65	104	65	104	65	104
Rated short-time withstand current	(kA)	25	40	25	40	25	40	25	40
	(3sec)	●	●	●	●	●	●	●	●
Installation type		Fixed Upright type: Left (L) or Right (R) Operation, Fixed Inverted type: Left (S) or Right (T) Operation							
Mechanical endurance	Operations	500 times							
Operating temperature		-40°C ~ 40°C							
Standard		IEEE C37.20.4, ANSI C37.58, CSA C22.2 No. 193:M83							
UL Certificate		R/C(Recognized Component), UL/CSA							

## ULI-27/29

Load interrupter switch type		ULI-27				ULI-29			
Maximum rated voltage	(kV)	27				29			
Withstand voltage	Dielectric (1min)	60				60			
	Lightening impulse (1.2×50μs)	125				125			
Rated normal current	(A)	600		1200		600		1200	
Rated frequency	(Hz)	60		60		60		60	
Fault-making symmetrical	(kA)	25	31.5	25	31.5	25	31.5	25	31.5
Fault-making asymmetrical	(kA)	40	50.4	40	50.4	40	50.4	40	50.4
Rated peak current	(kA)	65	104	65	104	65	104	65	104
Rated short-time withstand current	(kA)	25	40	25	40	25	40	25	40
	(3sec)	●	●	●	●	●	●	●	●
Installation type		Fixed type(Upright Type: Left(L)/Right(R) Operation)							
Mechanical endurance	Operations	500 times							
Operating temperature		-40°C ~ 40°C							
Standard		IEEE C37.20.4, ANSI C37.58							
UL Certificate		R/C(Recognized Component)							

**ULI-38** 

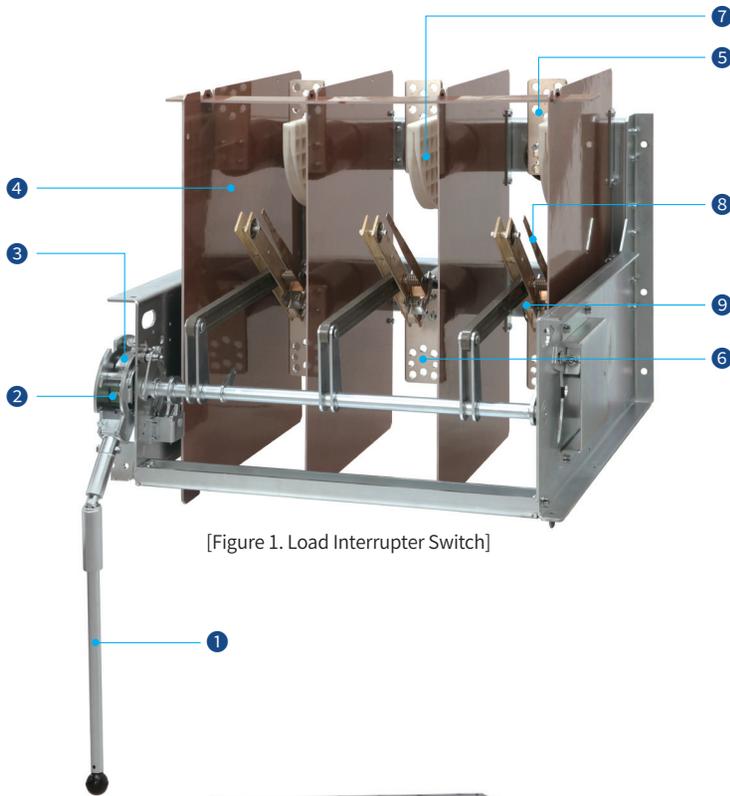
Load interrupter switch type		ULI-38			
Maximum rated voltage	(kV)	38			
Withstand voltage	Dielectric (1min)	(kV) 80			
	Lightening impulse (1.2×50μs)	(kV) 150			
Rated normal current	(A)	600		800	
Rated frequency	(Hz)	60	60	60	60
Fault-making symmetrical	(kA)	25	31.5	25	31.5
Fault-making asymmetrical	(kA)	40	50.4	40	50.4
Rated peak current	(kA)	65	104	65	104
Rated short-time withstand current	(kA)	25	40	25	40
	(3sec)	●	●	●	●
Installation type		Fixed Upright type: Left (L) or Right (R) Operation			
Mechanical endurance	Operations	500 times			
Operating temperature		-40°C ~ 40°C			
Standard		IEEE C37.20.4, ANSI C37.58			
UL Certificate		R/C(Recognized Component)			

**UGS-05/15/27/38** 

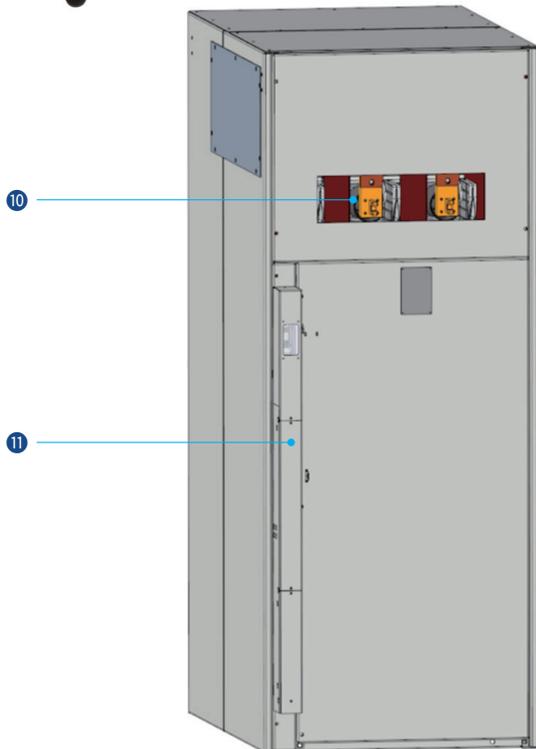
VT grounding switch type		UGS-05	UGS-15	UGS-27	UGS-38
Maximum rated voltage	(kV)	4.76	15	27	38
Withstand voltage	Dielectric (1min)	(kV) 19	36	60	80
	Lightening impulse (1.2×50μs)	(kV) 60	95	125	150
Rated normal current	(A)	-	-	-	-
Rated frequency	(Hz)	60	60	60	60
Fault-making symmetrical	(kA)	-	-	-	-
Fault-making asymmetrical	(kA)	-	-	-	-
Rated peak current	(kA)	104	104	104	104
Rated short-time withstand current	(kA)	40	40	40	40
	(2sec)	●	●	●	●
Installation type		Fixed Upright type: Left (L) or Right (R) Operation			
Mechanical endurance	Operations	750 times	500 times		
Operating temperature		-40°C ~ 40°C			
Standard		IEEE C37.20.4, ANSI C37.58, CSA C22.2 No. 193:M83			
UL Certificate		R/C(Recognized Component), UL/CSA			

# External structure

## Load Interrupter Switch



[Figure 1. Load Interrupter Switch]



[Figure 2. Load Interrupter Switch with power operation KIT]

### Parts

- ① Operating handle
- ② "CLOSED/OPEN" indicator
- ③ Handle drive mechanism
- ④ Insulation barrier
- ⑤ Line terminal
- ⑥ Load terminal
- ⑦ Arc chamber
- ⑧ Interrupting blade
- ⑨ Main blade
- ⑩ Inspection window
- ⑪ Power operation KIT

## Load Interrupter Switch Description

Model	Rated voltage (kV)	Handle configuration	Fault making current (Sym, kA)	Phase distance	Rated current (A)	Accessories	
ULI LOAD INTERRUPTER SWITCH	05	4.76	L Upright Type (Left Operation)	25 25	C 10in(254mm)	06 600	G Blade Grounding in open position
	15	15	R Upright Type (Right Operation)	40 40		12 1200	
			S Inverted Type (Left Operation)				
			T Inverted Type (Right Operation)				
	27	27	L Upright Type (Left Operation)	25 25	D 12in(304.8mm)	06 600	G Blade Grounding in open position
	29	29	R Upright Type (Right Operation)	32 31.5		12 1200	
	38	38	L Upright Type (Left Operation)	25 25	E 16in(406.4mm)	06 600	G Blade Grounding in open position
			R Upright Type (Right Operation)	32 31.5		08 800	

## Selection table of Load Interrupter Switch

Max. Voltage	Fault Making Current [kA]		Rated peak current [kA]	Rated Short-time withstand current [kA]	Current [A] p = 10"	Type of Load interrupter switch (Common applied to L,R,S and T type)	Weight [lb]	Outline dimension H×W×D [in]
	Symmetrical	Asymmetrical						
4.76	25	40	65	25	600	ULI-05□25C06	220.5	27×33×29
					1200	ULI-05□25C12	220.5	27×33×29
	40	64	104	40	600	ULI-05□40C06	220.5	27×33×29
					1200	ULI-05□40C12	220.5	27×33×29
15	25	40	65	25	600	ULI-15□25C06	220.5	27×33×29
					1200	ULI-15□25C12	220.5	27×33×29
	40	64	104	40	600	ULI-15□40C06	220.5	27×33×29
					1200	ULI-15□40C12	220.5	27×33×29

Max. Voltage	Fault Making Current [kA]		Rated peak current [kA]	Rated Short-time withstand current [kA]	Current [A] p = 12"	Type of Load interrupter switch (Common applied to L,R,S and T type)	Weight [lb]	Outline dimension H×W×D [in]
	Symmetrical	Asymmetrical						
27	25	40	65	25	600	ULI-27□25D06	319.7	30.8×43.5×34.7
					1200	ULI-27□25D12		30.8×43.5×34.7
	31.5	50.4	104	40	600	ULI-27□32D06	319.7	30.8×43.5×34.7
					1200	ULI-27□32D12		30.8×43.5×34.7
29	25	40	65	25	600	ULI-29□25D06	319.7	30.8×43.5×34.7
					1200	ULI-29□25D12		30.8×43.5×34.7
	31.5	50.4	104	40	600	ULI-29□32D06	319.7	30.8×43.5×34.7
					1200	ULI-29□32D12		30.8×43.5×34.7

Max. Voltage	Fault Making Current [kA]		Rated peak current [kA]	Rated Short-time withstand current [kA]	Current [A] p = 16"	Type of Load interrupter switch (Common applied to L,R,S and T type)	Weight [lb]	Outline dimension H×W×D [in]
	Symmetrical	Asymmetrical						
38	25	40	65	25	600	ULI-38□25E06	385.8	33.6×55.4×40.3
	31.5	50.4	104	40	600	ULI-38□32E06		33.6×55.4×40.3
38	25	40	65	25	800	ULI-38□25E08	385.8	33.6×55.4×40.3
	31.5	50.4	104	40	800	ULI-38□32E08		33.6×55.4×40.3

# Selection guide of Load Interrupter Switch

## VT Grounding Switch description

UGS	15	L	40	D				
Model	Rated voltage (kV)		Short-time withstand current(kA)		Phase distance			
UGS VT GROUNDING SWITCH	05	4.76	L	Upright Type (Left Operation)	40	40	D	12in(304.8mm)
	15	15	R	Upright Type (Right Operation)				
	27	27	L	Upright Type (Left Operation)	40	40	E	16in(406.4mm)
	38	38	R	Upright Type (Right Operation)				

## VT Grounding Switch selection table

Max. Voltage [kV]	Rated peak current [kA]	Rated short-time withstand current [kA/2s]	Phase distance	VT grounding switch model (Select: L or R type)	Weight [lb]	External dimensions (H×W×D) [in]
4.76	104	40	12in	UGS-05□40D	242.5	27×43.5×29
15	104	40	12in	UGS-15□40D	242.5	27×43.5×29
27	104	40	16in	UGS-27□40E	363.8	34×55.5×40.3
38	104	40	16in	UGS-38□40E	385.8	34×55.5×40.3

## Load Interrupter Switch

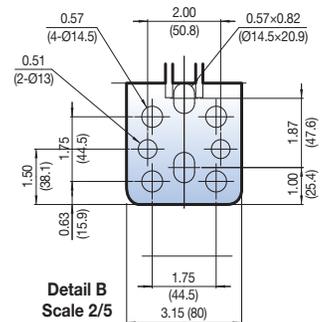
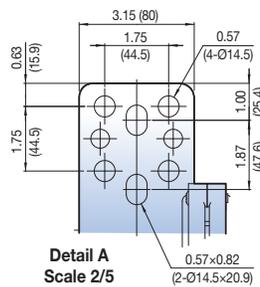
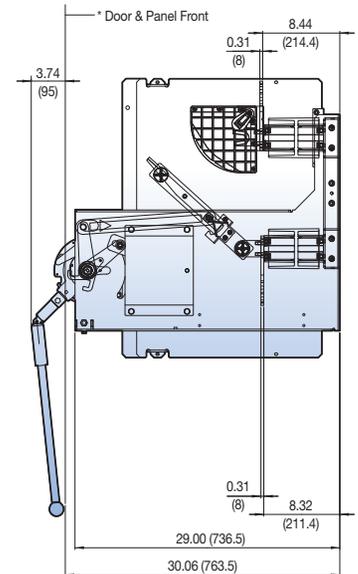
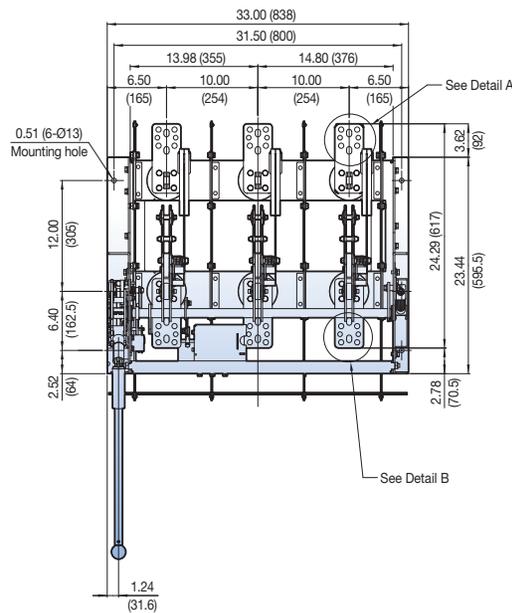
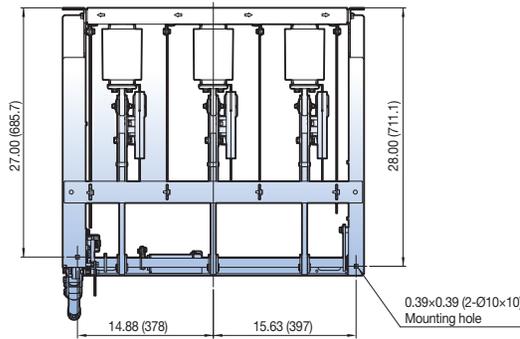
## 4.76/15kV, 25/40kA, 600/1200A

[Unit: in(mm)]

### Upright type (Left Operation)

#### Model

- ULI-05L25C06
- ULI-05L25C12
- ULI-05L40C06
- ULI-05L40C12
- ULI-15L25C06
- ULI-15L25C12
- ULI-15L40C06
- ULI-15L40C12



# Dimensions

## Load Interrupter Switch

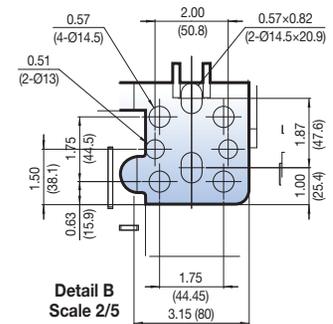
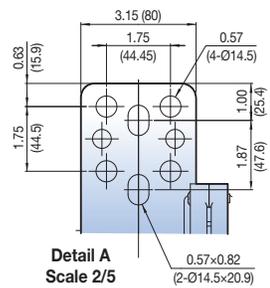
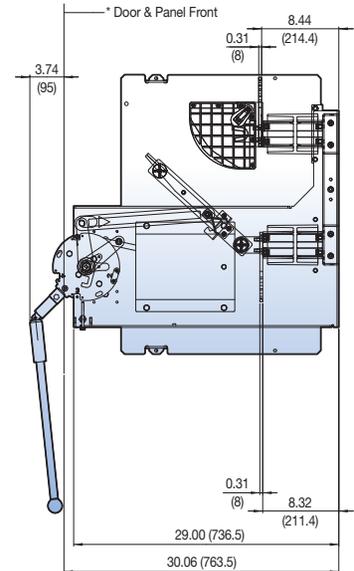
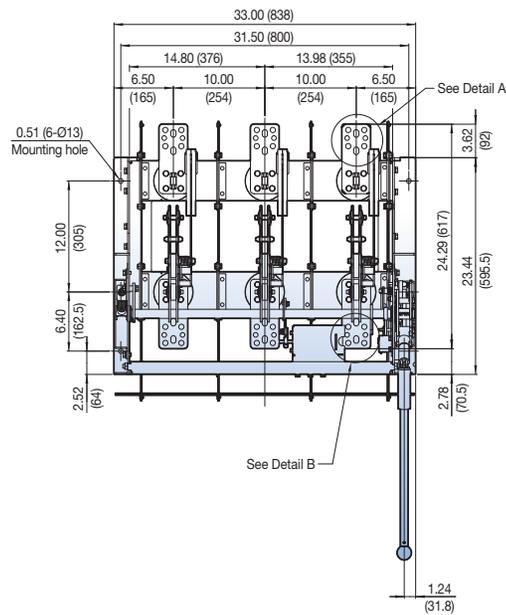
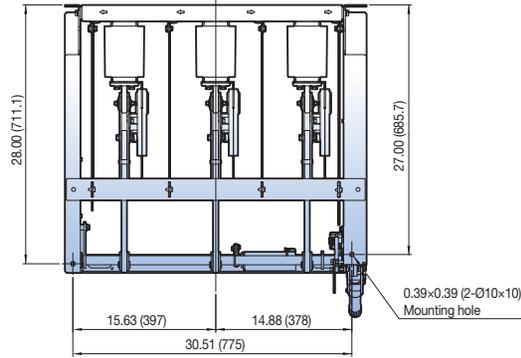
4.76/15kV, 25/40kA, 600/1200A

[Unit: in(mm)]

### Upright type (Right Operation)

#### Model

- ULI-05R25C06
- ULI-05R25C12
- ULI-05R40C06
- ULI-05R40C12
- ULI-15R25C06
- ULI-15R25C12
- ULI-15R40C06
- ULI-15R40C12



# Load Interrupter Switch

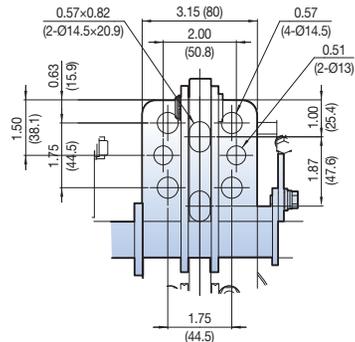
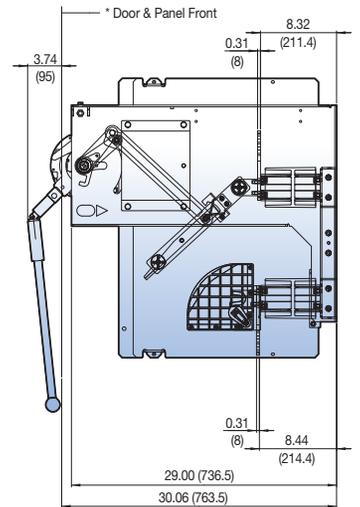
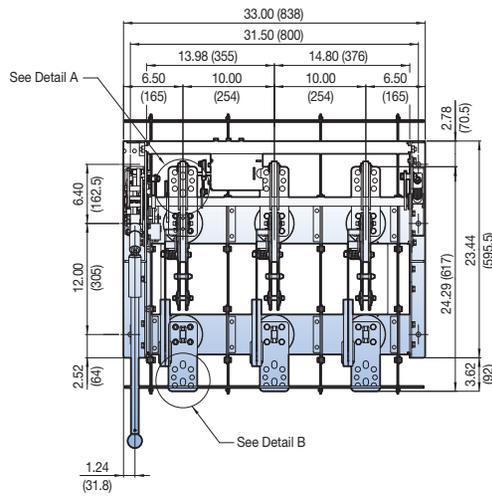
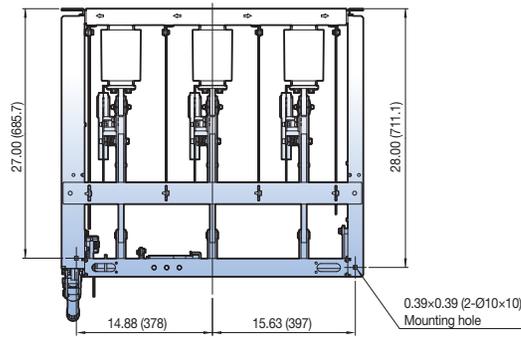
## 4.76/15kV, 25/40kA, 600/1200A

[Unit: in(mm)]

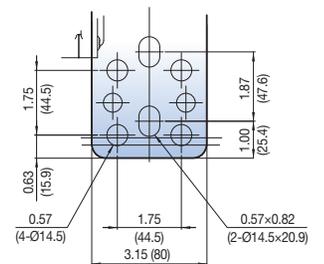
### Inverted type (Left Operation)

#### Model

- ULI-05S25C06
- ULI-05S25C12
- ULI-05S40C06
- ULI-05S40C12
- ULI-15S25C06
- ULI-15S25C12
- ULI-15S40C06
- ULI-15S40C12



Detail A  
Scale 2/5



Detail B  
Scale 2/5

# Dimensions

## Load Interrupter Switch

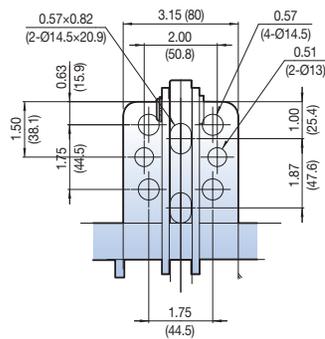
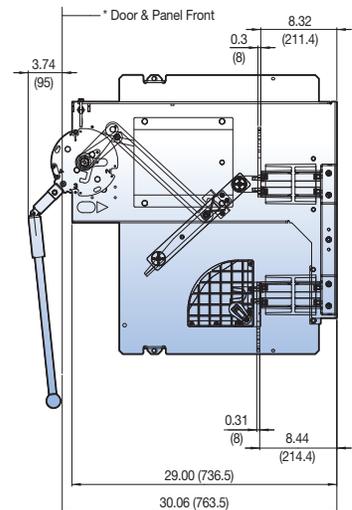
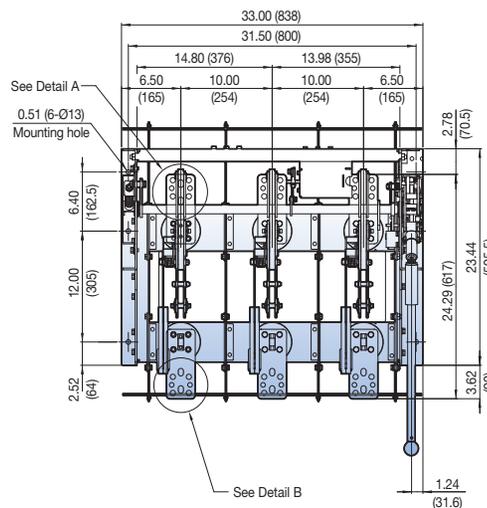
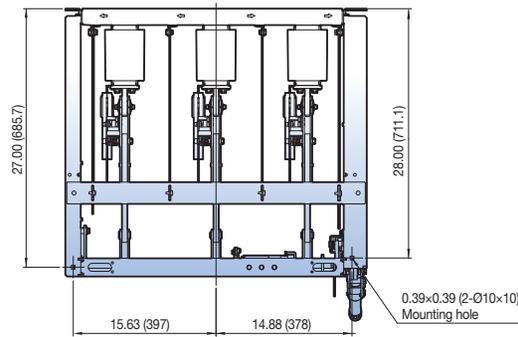
4.76/15kV, 25/40kA, 600/1200A

[Unit: in(mm)]

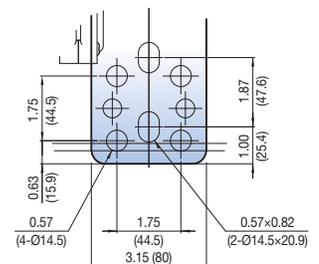
### Inverted type (Right Operation)

#### Model

ULI-05T25C06  
 ULI-05T25C12  
 ULI-05T40C06  
 ULI-05T40C12  
 ULI-15T25C06  
 ULI-15T25C12  
 ULI-15T40C06  
 ULI-15T40C12



Detail A  
Scale 2/5



Detail B  
Scale 2/5

# Load Interrupter Switch

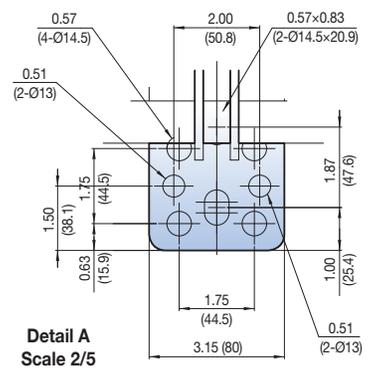
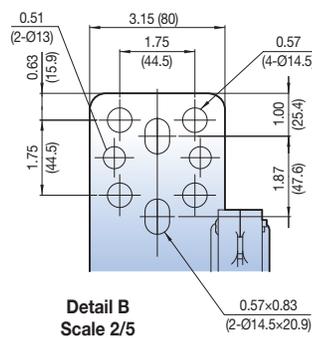
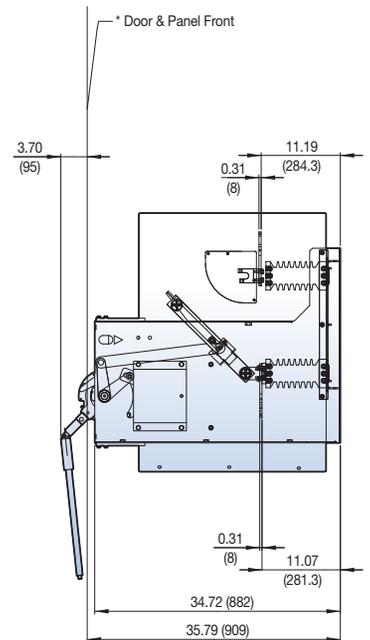
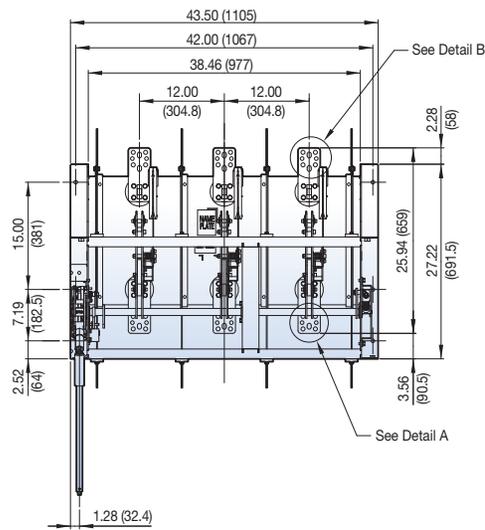
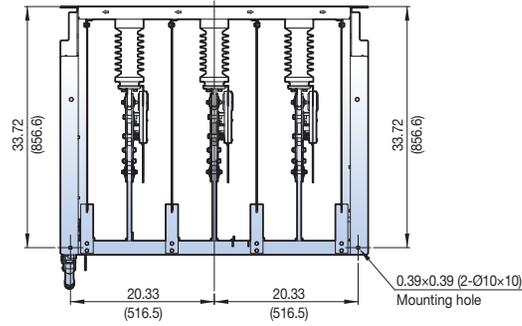
# 27/29kV, 25/31.5kA, 600/1200A

[Unit: in(mm)]

## Upright type (Left Operation)

### Model

- ULI-27L25D06
- ULI-27L25D12
- ULI-27L32D06
- ULI-27L32D12
- ULI-29L25D06
- ULI-29L25D12
- ULI-29L32D06
- ULI-29L32D12



# Dimensions

## Load Interrupter Switch

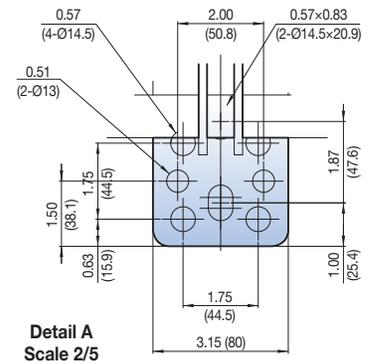
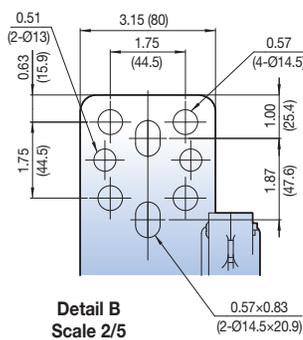
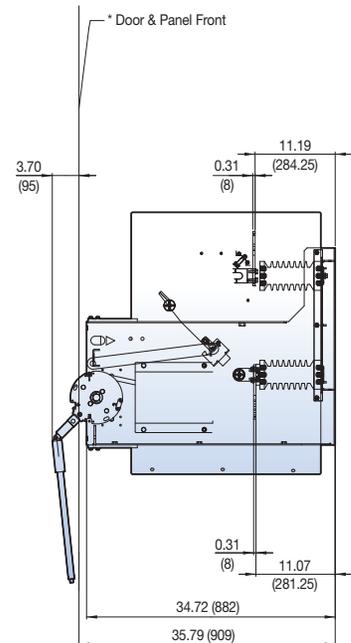
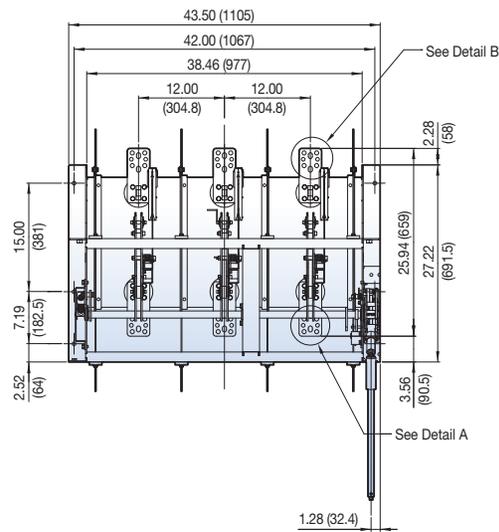
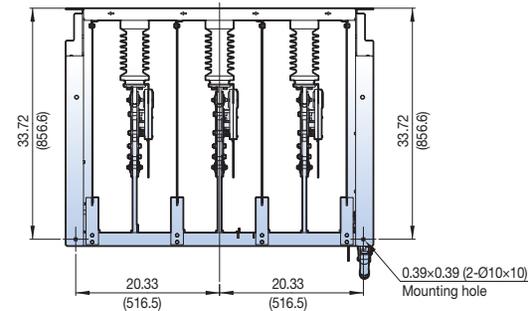
27/29kV, 25/31.5kA, 600/1200A

[Unit: in(mm)]

### Upright type (Right Operation)

#### Model

ULI-27R25D06  
 ULI-27R25D12  
 ULI-27R32D06  
 ULI-27R32D12  
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 ULI-29R25D12  
 ULI-29R32D06  
 ULI-29R32D12



# Load Interrupter Switch

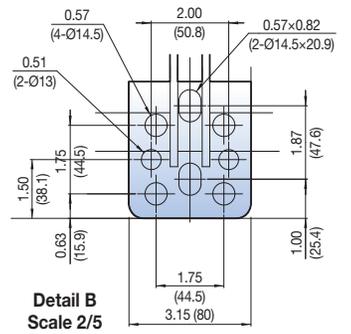
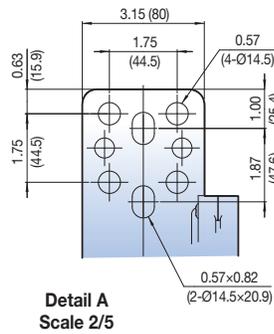
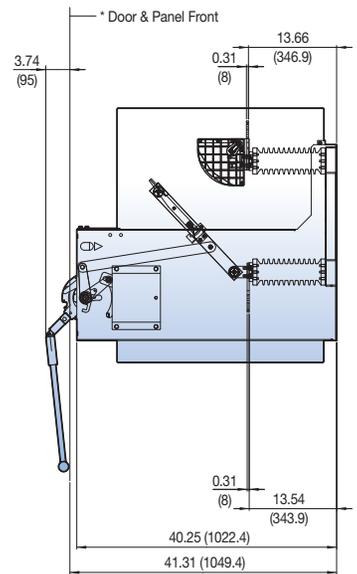
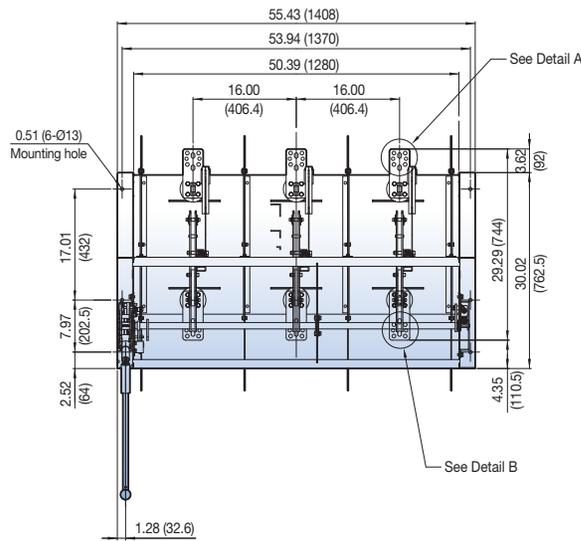
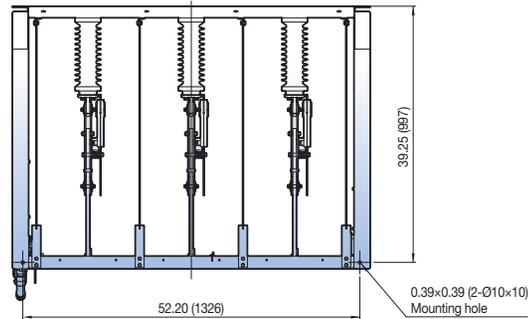
# 38kV, 25/31.5kA, 600/800A

[Unit: in(mm)]

## Upright type (Left Operation)

### Model

- ULI-38L25E06
- ULI-38L32E06
- ULI-38L25E08
- ULI-38L32E08



# Dimensions

## Load Interrupter Switch

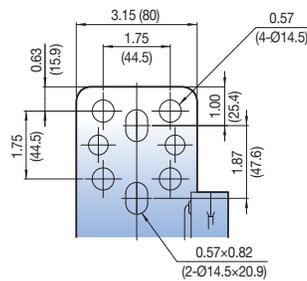
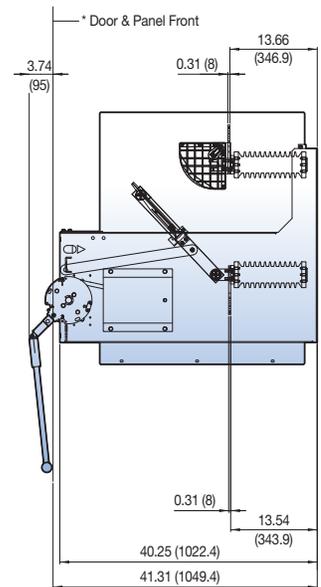
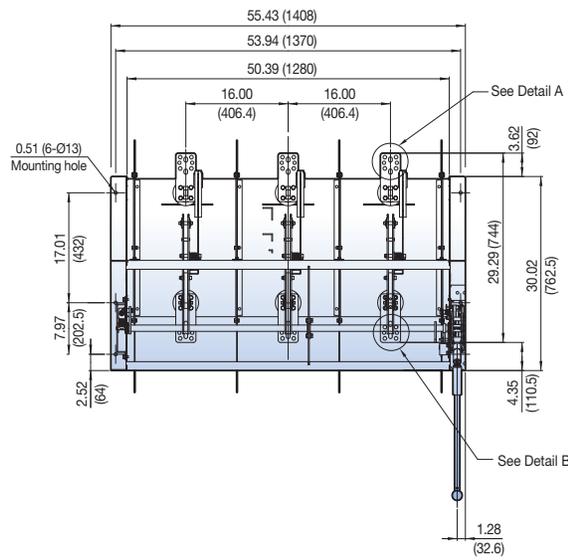
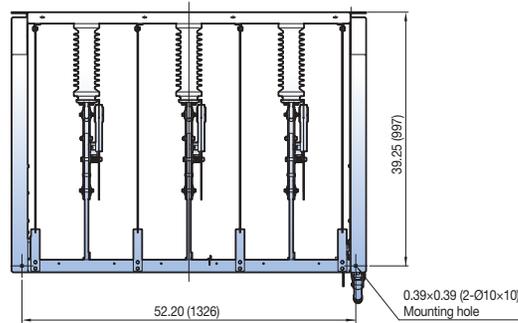
### 38kV, 25/31.5kA, 600/800A

[Unit: in(mm)]

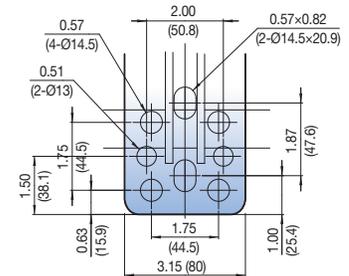
#### Upright type (Right Operation)

##### Model

- ULI-38R25E06
- ULI-38R32E06
- ULI-38R25E08
- ULI-38R32E08



**Detail A**  
Scale 2/5



**Detail B**  
Scale 2/5

# VT Grounding Switch

## 4.76/15kV, 40kA

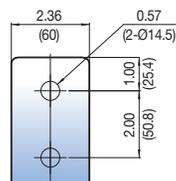
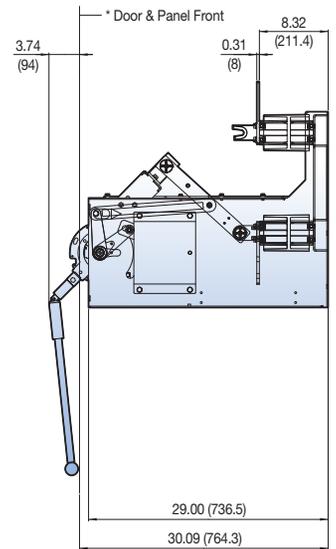
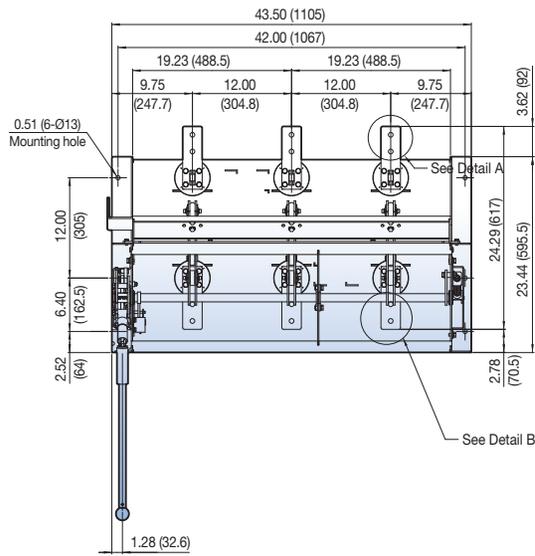
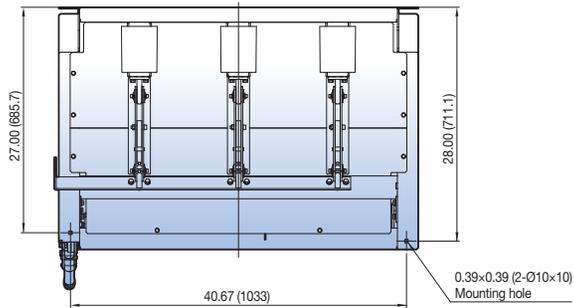
[Unit: in(mm)]

### Upright type (Left Operation)

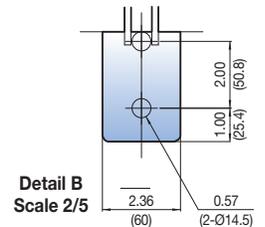
**Model**

UGS-05L40D

UGS-15L40D



**Detail A**  
Scale 2/5



**Detail B**  
Scale 2/5

# Dimensions

## VT Grounding Switch

4.76/15kV, 40kA

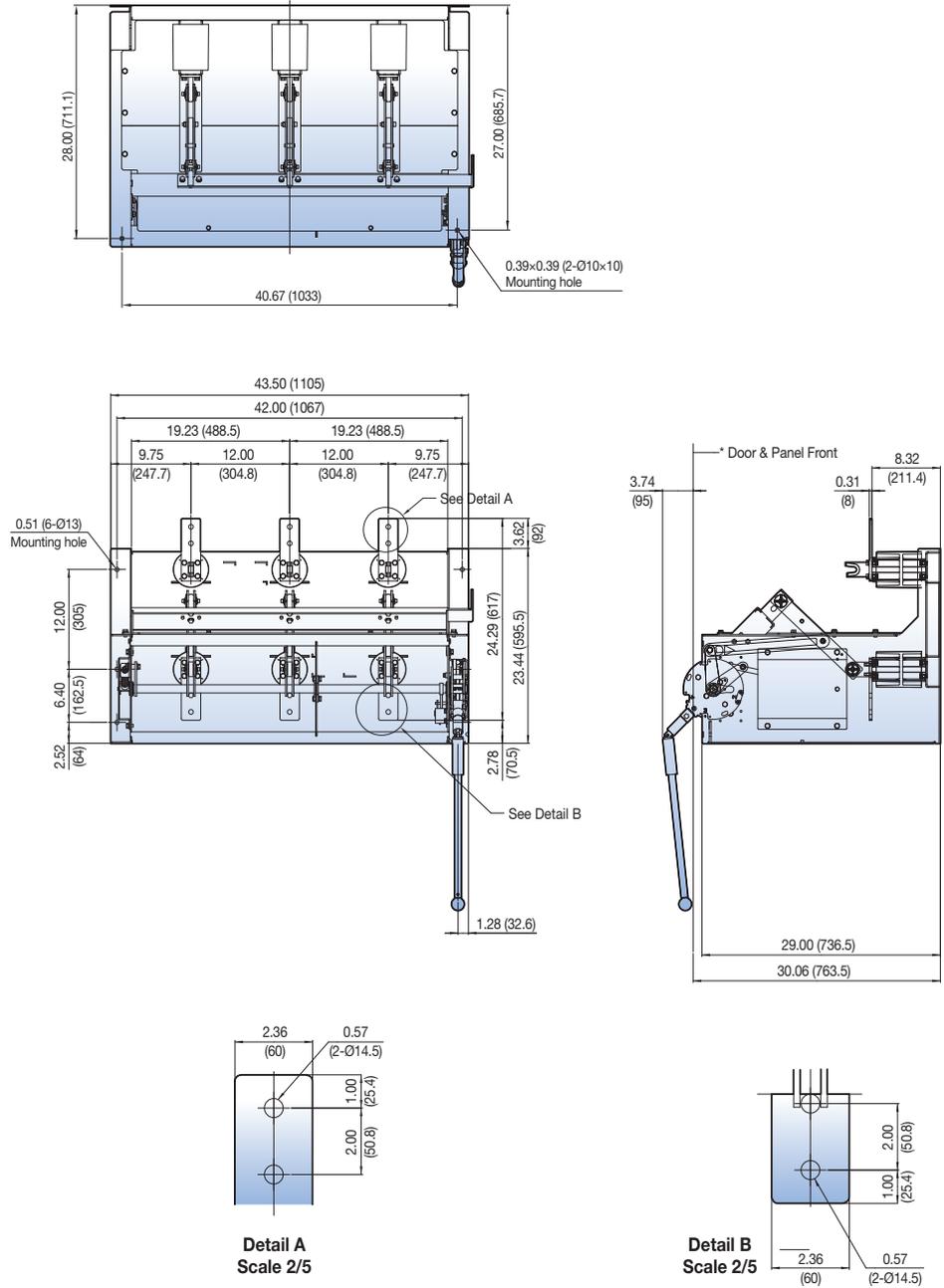
[Unit: in(mm)]

**Upright type**  
(Right Operation)

Model

UGS-05R40D

UGS-15R40D



# VT Grounding Switch

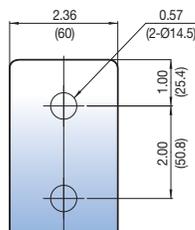
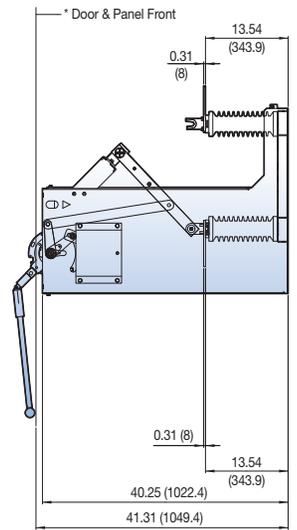
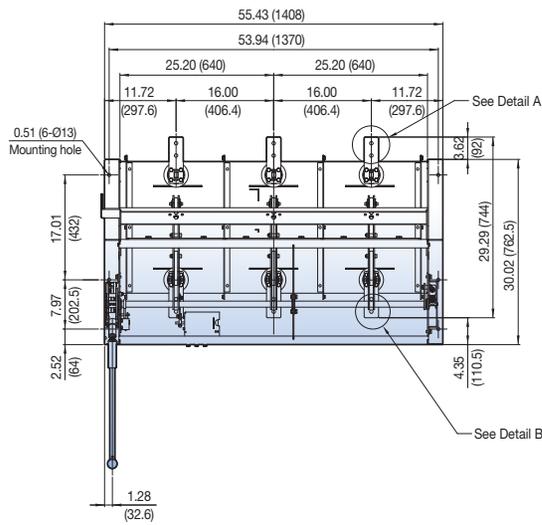
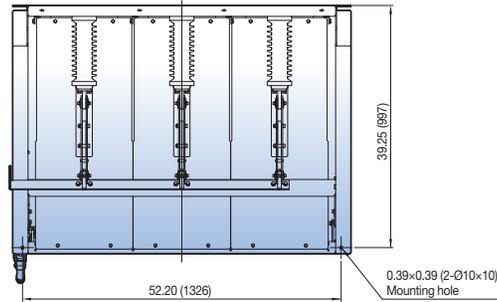
# 27kV, 40kA

[Unit: in(mm)]

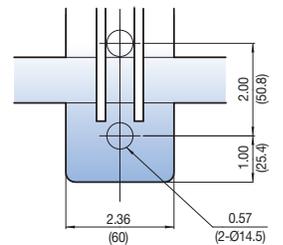
**Upright type**  
(Left Operation)

Model

UGS-27L40E



Detail A  
Scale 1/2



Detail B  
Scale 1/2



# VT Grounding Switch

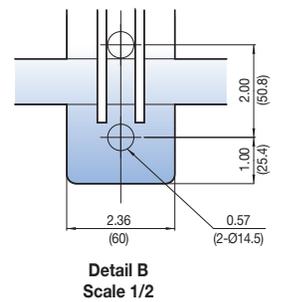
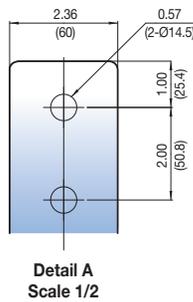
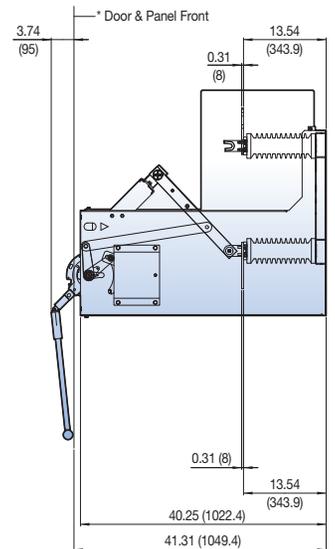
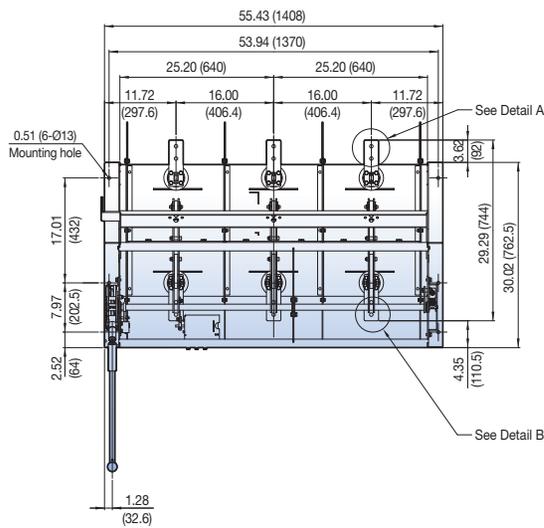
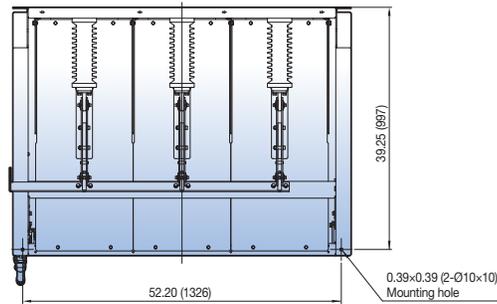
# 38kV, 40kA

[Unit: in(mm)]

**Upright type**  
(Left Operation)

Model

UGS-38L40E



# Dimensions

## VT Grounding Switch

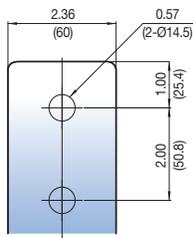
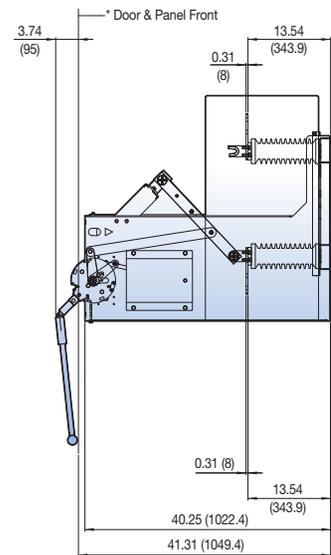
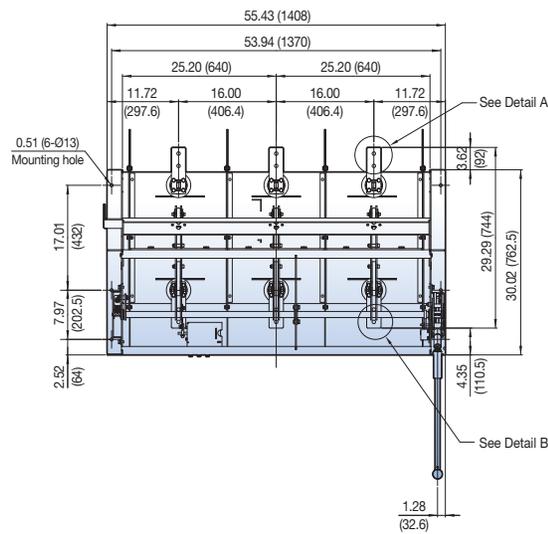
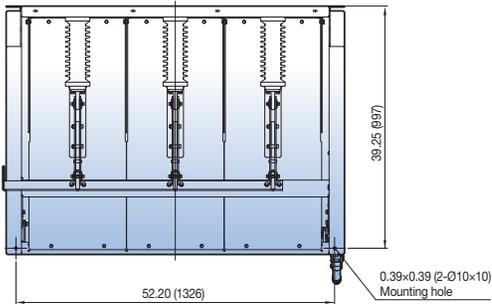
38kV, 40kA

[Unit: in(mm)]

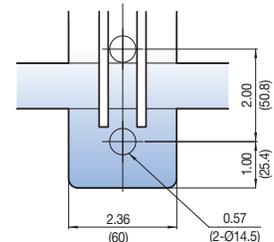
**Upright type**  
(Right Operation)

Model

UGS-38R40E



Detail A  
Scale 1/2

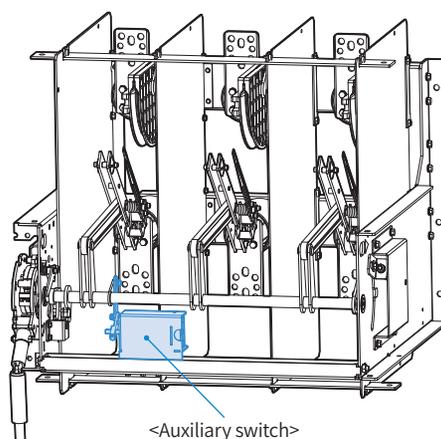


Detail B  
Scale 1/2

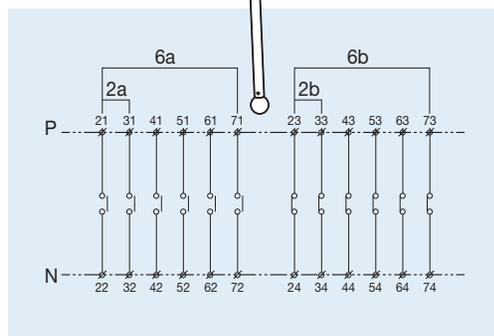
## Auxiliary Switch

- The load interrupter switch can be equipped with a rotary type switch that allows remote monitoring of the “CLOSED” or “OPEN” status.
- Two types of auxiliary switches are available: 2a2b and 6a6b.
- The aux switch codes below are for customers purchasing the LI switch without the aux switch or upgrading/downgrading the aux switch.
- Use the item codes in the table below when purchasing the auxiliary switch.

Description	Type	Item Code	Notes
Aux 2a2b with lead wire	Upright type	62503182009	
	Inverted type	62503182011	
Aux 6a6b with lead wire	Upright type	62503182008	
	Inverted type	62503182010	
Aux 2a2b (Aux switch only)	Upright type	62503182013	User jack included
	Inverted type	62503182015	
Aux 6a6b (Aux switch only)	Upright type	62503182012	User jack included
	Inverted type	62503182014	
User jack	Connector (Terminal kit without wire)	77023182007	User jack only



<Auxiliary switch>



<Wire diagram>

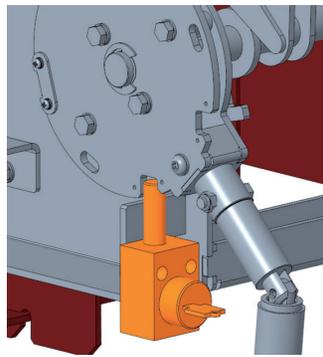


<User jack>

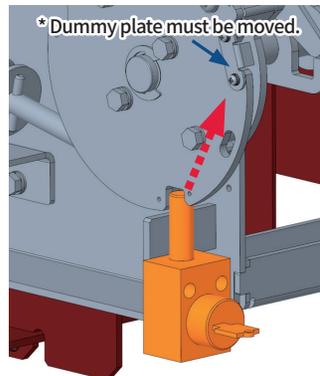
## Key Lock(Kirk key)

- The key lock accessory prevents unwanted operation of the device by mechanically locking it until the keylock is unlocked. (The key is not included)
- Once the key lock is engaged, the device cannot be opened or closed without the key.
- A maximum of two key locks can be applied.
- They key lock (Kirk key) cannot be used with the Power Operated KIT.

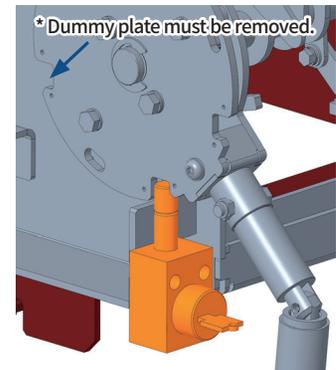
Kirk key part number
KFL010010T



[Figure 3. Key lock in open position]

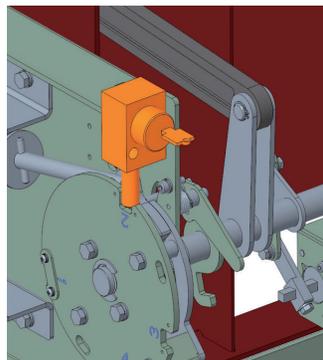


[Figure 4. Key lock in close position]

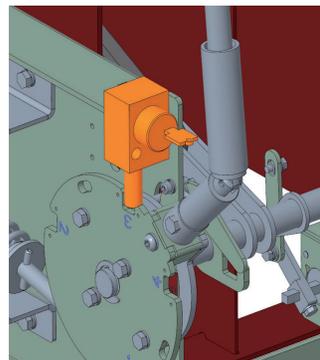


[Figure 5. Key lock in both positions]

- The key lock can be used in either a single position (OPEN or CLOSE) or in both positions (OPEN and CLOSE).
- By default, the key lock is installed for use in the OPEN position. It can be used in the CLOSE position by moving the dummy plate.
- To enable key lock functionality in both the OPEN and CLOSE positions, remove the dummy plate.
- or more details, please refer to the user manual.



2<sup>nd</sup> key lock used in "OPEN" position

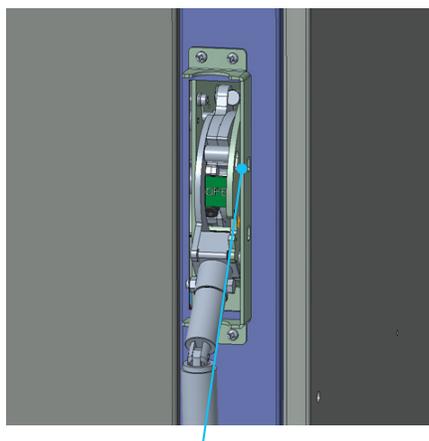


2<sup>nd</sup> key lock used in "CLOSE" position

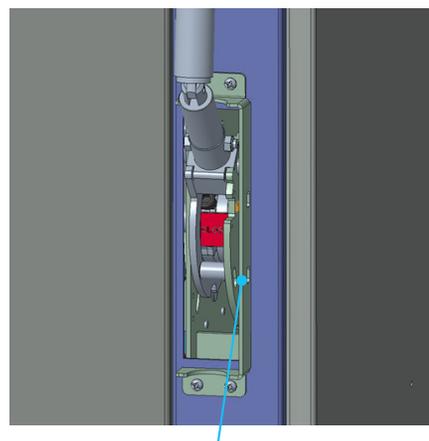
- The 2<sup>nd</sup> key lock is provided for use in both positions (OPEN and CLOSE).
- The dummy plate for the 2<sup>nd</sup> key locks is not provided with.

## Padlock

- The padlock accessory prevents unwanted operation and tampering, while increasing security.
- The key lock is not included (hole size: 10mm × 14mm).
- The additional bracket for padlock is included with the LI Switch product and must be installed on the SWGR to enable the padlock application.



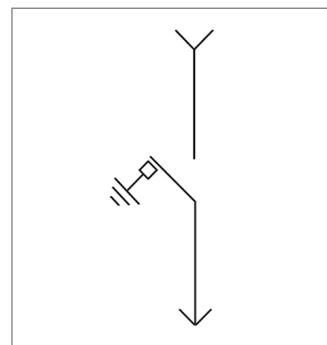
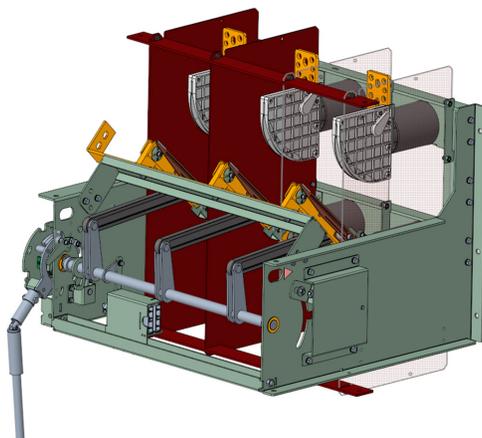
[Figure 6. Padlock in open position]



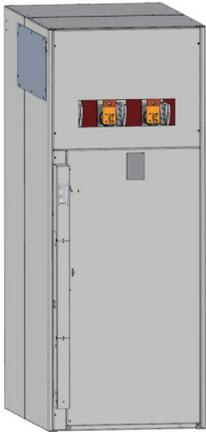
[Figure 7. Padlock in close position]

## Grounding option in open position

- An additional feature for the LIS includes grounding option for automatic grounding. When the switch is in the open position, the switch's main blades connect with the grounding to ground.
- This feature is designed to provide a static ground and is not intended to carry fault currents.
- **This feature is not compatible with duplex switch configuration.**



# Accessories



[Figure 8. Load Interrupter Switch with Power Operated Kit]

## Power Operated Kit

- The Power Operated KIT is a convenient accessory that converts the manual-type load interrupter switch to a motorized type. The Power Operated KIT is installed in front of the switchgear, enabling the switch to be opened and closed by an electric motor.
- The Power Operated KIT has four types of control voltages, which includes position S/W (2a2b).
- LS ELECTRIC's manual-type load interrupter switchgear can be upgraded to a motorized type by assembling the Power Operation Kit with the switchgear.
- Power Operated KIT cannot be used with key Lock(Kirk key).

## Ratings

Control voltage	(V)	DC125	DC250	AC120	AC240
Voltage range	(V)	100~140	200~280	104~127	208~254
Steady current	(A)	≤2.5	≤1.5	≤2.5	≤1.5
Inrush current	(A)	≤12.5	≤7.5	≤12.5	≤7.5
Operating time	(s)	≤10			

## Position Switch diagram

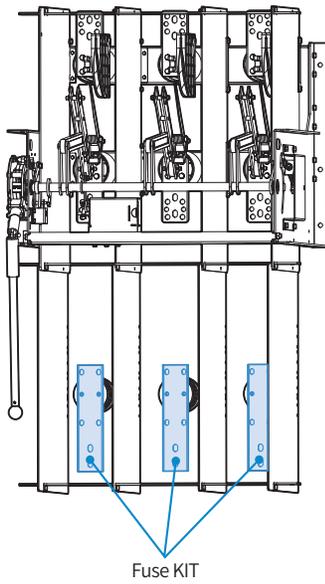
Power Operator Position	Close Position Switch <2a>	Open Position Switch <2a>
LIS Close		
On Operation		
LIS Open		

## Item codes

Item code	Description
72313182005	TOTAL ASS'Y,POWER,OPERATED,DC125,PO,LIS
72313182006 *	TOTAL ASS'Y,POWER,OPERATED,DC250,PO,LIS
72313182007	TOTAL ASS'Y,POWER,OPERATED,AC120,PO,LIS
72313182008	TOTAL ASS'Y,POWER,OPERATED,AC240,PO,LIS

\* The DC250V motorized kit is excluded from UL certification list.

## Fuse KIT(Fuse Terminal Kit)



- The kit includes a copper terminal with pre-drilled holes for attaching a fuse clip (not included), and an insulator for assembly to the SWGR.
- The Fuse Kit comes with three sets of terminal and insulator assembly parts.

4.76 / 15kV

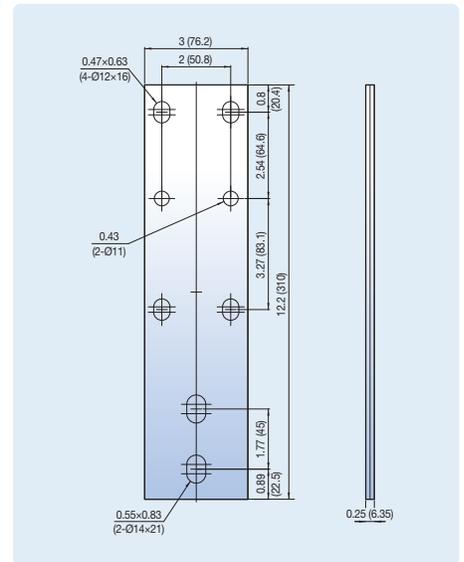


Ordering code

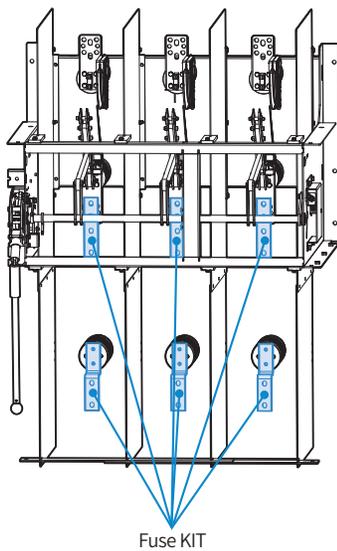
67923182004

- Applicable fuse list \*
  - Mersen 9F60 series
  - Mersen CS-3 series
  - Mersen Amp-Trap Bolt-In series

\*Check the fuse terminal diagram on the right side of this page.



[Unit: in(mm)]



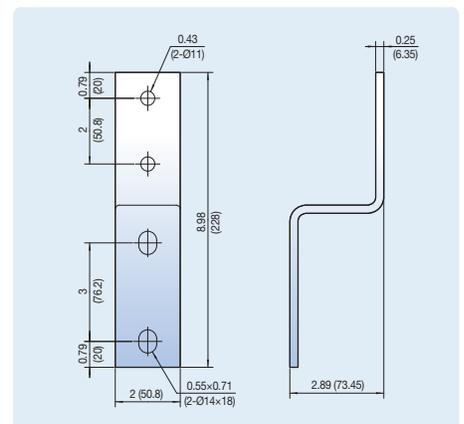
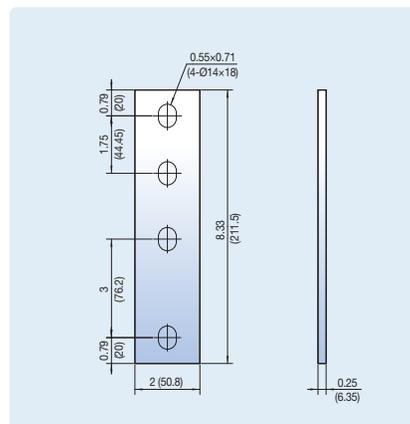
27 / 29kV



Ordering code

67923182010

- Applicable fuse list
  - Mersen 9F60 series



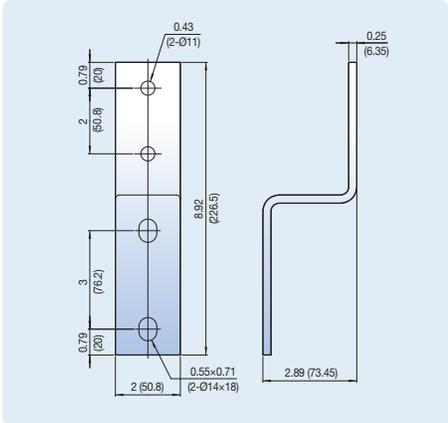
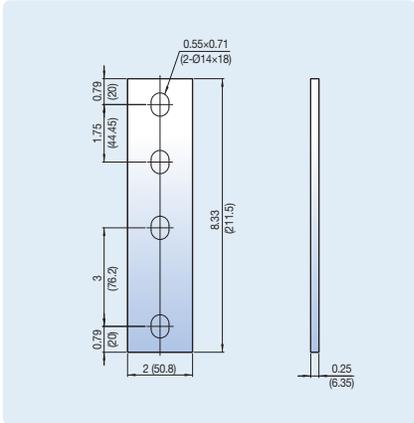
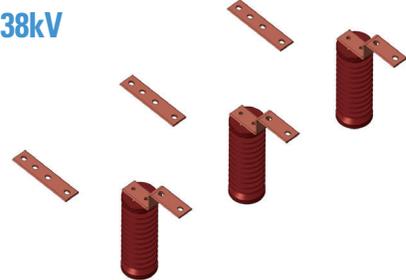
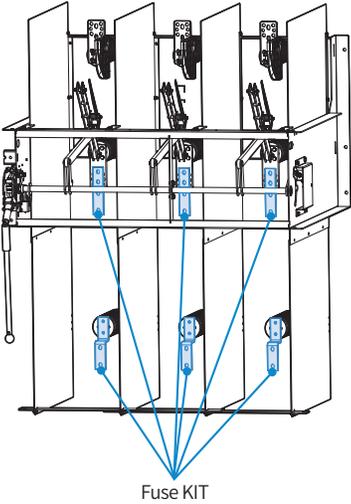
[Unit: in(mm)]

## Fuse KIT(Fuse Terminal Kit)

38kV

Ordering code
67923182007

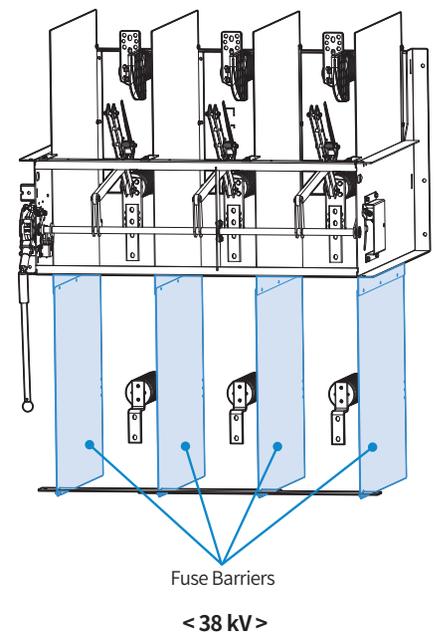
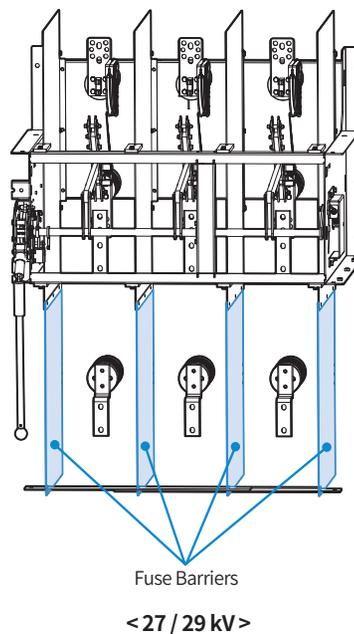
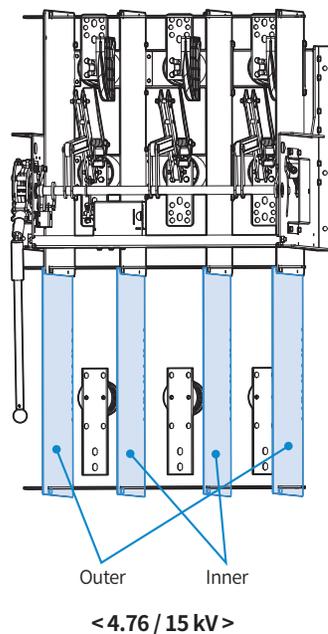
- Applicable fuse list
- Mersen 9F60 series



## Phase to Phase and Phase to Ground Barrier

- This is a full-sized phase-to-phase and phase-to-ground barrier designed for installation between fuses, as well as between the fuses and the grounded enclosure. It comes with four sets of barriers and assembly parts.
- The components connect to the load interrupter switch barrier during installation.
- Assembly bolts are not included.

LIS rating	Ordering code
4.76 / 15 kV	67223182004
27 / 29 kV	67223182013
38 kV	67223182008

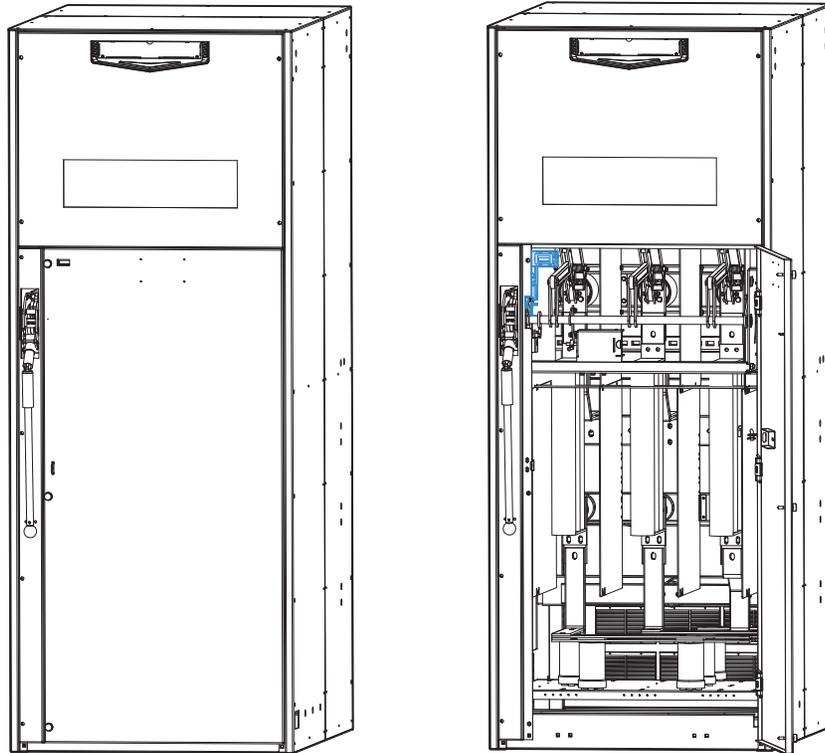


## Mechanical Counter (Non-resettable)

Our LI switch is equipped with a mechanical counter designed to effortlessly track and manage the cycle lifespan. The mechanical counter provides the following features:

- **Precise Recording:** With robust mechanical design, each operating cycle is accurately logged. A count is registered for every C-O (Close-Open) operation, supporting precise data collection.
- **Ease of Use:** Features intuitive numerical display, allowing users to easily check current operation counts and enabling simple installation. Through a viewing window on the switchgear door, users can check the operation counts from outside the panel.

Type	Item code	Description
Left operation	51873182001	COUNTER ASS'Y, NRS-5, LH, LIS
Right operation	51873182002	COUNTER ASS'Y, NRS-5, RH, LIS



## Code List – Load Interrupter Switch

Operation Type	Max. Voltage	Fault Making Current		Phase Distance	Rate Current	Option*	Item code	Description	
		Symmetrical	Assymetrical			G			
Upright Type	L (Left Operation)	4.76kV	25kA	40kA	C.(10")	600A		70070021VE	ULI-05L25C06 EXPS
							●	70070101VE	ULI-05L25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70070022VE	ULI-05L25C12 EXPS
							●	70070102VE	ULI-05L25C12-G EXPS
			40kA	64kA	C.(10")	600A		70070019VE	ULI-05L40C06 EXPS
							●	70070099VE	ULI-05L40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70070020VE	ULI-05L40C12 EXPS	
						●	70070100VE	ULI-05L40C12-G EXPS	
		15kV	25kA	40kA	C.(10")	600A		70080021VE	ULI-15L25C06 EXPS
							●	70080101VE	ULI-15L25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70080022VE	ULI-15L25C12 EXPS
							●	70080102VE	ULI-15L25C12-G EXPS
			40kA	64kA	C.(10")	600A		70080019VE	ULI-15L40C06 EXPS
							●	70080099VE	ULI-15L40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70080020VE	ULI-15L40C12 EXPS	
						●	70080100VE	ULI-15L40C12-G EXPS	
		27kV	25kA	40kA	D.(12")	600A		80050000VE	ULI-27L25D06 EXPS
							●	80050008VE	ULI-27L25D06-G EXPS
			25kA	40kA	D.(12")	1200A		80050001VE	ULI-27L25D12 EXPS
							●	80050009VE	ULI-27L25D12-G EXPS
			31.5kA	50.4kA	D.(12")	600A		80050016VE	ULI-27L32D06 EXPS
							●	80050020VE	ULI-27L32D06-G EXPS
		31.5kA	50.4kA	D.(12")	1200A		80050017VE	ULI-27L32D12 EXPS	
						●	80050021VE	ULI-27L32D12-G EXPS	
		29kV	25kA	40kA	D.(12")	600A		80070000VE	ULI-29L25D06-EXPS
							●	80070008VE	ULI-29L25D06-G EXPS
			25kA	40kA	D.(12")	1200A		80070001VE	ULI-29L25D12-EXPS
							●	80070009VE	ULI-29L25D12-G EXPS
			31.5kA	50.4kA	D.(12")	600A		80070016VE	ULI-29L32D06-EXPS
							●	80070020VE	ULI-29L32D06-G EXPS
		31.5kA	50.4kA	D.(12")	1200A		80070017VE	ULI-29L32D12-EXPS	
						●	80070021VE	ULI-29L32D12-G EXPS	
		38kV	25kA	40kA	E.(16")	600A		80020003VE	ULI-38L25E06 EXPS
							●	80020007VE	ULI-38L25E06-G EXPS
			25kA	40kA	E.(16")	800A		80020012VE	ULI-38L25E08 EXPS
							●	80020016VE	ULI-38L25E08-G EXPS
			31.5kA	50.4kA	E.(16")	600A		80020004VE	ULI-38L32E06 EXPS
							●	80020008VE	ULI-38L32E06-G EXPS
		31.5kA	50.4kA	E.(16")	800A		80020013VE	ULI-38L32E08 EXPS	
						●	80020017VE	ULI-38L32E08-G EXPS	

\* G: Grounding option in open position

# Ordering Codes

## Code List – Load Interrupter Switch

Operation Type	Max. Voltage	Fault Making Current		Phase Distance	Rate Current	Option*	Item code	Description	
		Symmetrical	Assymetrical			G			
Upright Type	R (Right Operation)	4.76kV	25kA	40kA	C.(10")	600A		70070025VE	ULI-05R25C06 EXPS
							●	70070105VE	ULI-05R25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70070026VE	ULI-05R25C12 EXPS
							●	70070106VE	ULI-05R25C12-G EXPS
			40kA	64kA	C.(10")	600A		70070023VE	ULI-05R40C06 EXPS
							●	70070103VE	ULI-05R40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70070024VE	ULI-05R40C12 EXPS	
						●	70070104VE	ULI-05R40C12-G EXPS	
		15kV	25kA	40kA	C.(10")	600A		70080029VE	ULI-15S25C06 EXPS
							●	70080109VE	ULI-15S25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70080030VE	ULI-15S25C12 EXPS
							●	70080110VE	ULI-15S25C12-G EXPS
			40kA	64kA	C.(10")	600A		70080027VE	ULI-15S40C06 EXPS
							●	70080107VE	ULI-15S40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70080028VE	ULI-15S40C12 EXPS	
						●	70080108VE	ULI-15S40C12-G EXPS	
		27kV	25kA	40kA	D.(12")	600A		80050004VE	ULI-27R25D06 EXPS
							●	80050012VE	ULI-27R25D06-G EXPS
			25kA	40kA	D.(12")	1200A		80050005VE	ULI-27R25D12 EXPS
							●	80050013VE	ULI-27R25D12-G EXPS
			31.5kA	50.4kA	D.(12")	600A		80050018VE	ULI-27R32D06 EXPS
							●	80050022VE	ULI-27R32D06-G EXPS
		31.5kA	50.4kA	D.(12")	1200A		80050019VE	ULI-27R32D12 EXPS	
						●	80050023VE	ULI-27R32D12-G EXPS	
		29kV	25kA	40kA	D.(12")	600A		80070004VE	ULI-29R25D06-EXPS
							●	80070012VE	ULI-29R25D06-G EXPS
			25kA	40kA	D.(12")	1200A		80070005VE	ULI-29R25D12-EXPS
							●	80070013VE	ULI-29R25D12-G EXPS
			31.5kA	50.4kA	D.(12")	600A		80070018VE	ULI-29R32D06-EXPS
							●	80070022VE	ULI-29R32D06-G EXPS
		31.5kA	50.4kA	D.(12")	1200A		80070019VE	ULI-29R32D12-EXPS	
						●	80070023VE	ULI-29R32D12-G EXPS	
		38kV	25kA	40kA	E.(16")	600A		80020005VE	ULI-38R25E06 EXPS
							●	80020009VE	ULI-38R25E06-G EXPS
			25kA	40kA	E.(16")	800A		80020014VE	ULI-38R25E08 EXPS
							●	80020018VE	ULI-38R25E08-G EXPS
31.5kA	50.4kA		E.(16")	600A		80020006VE	ULI-38R32E06 EXPS		
					●	80020010VE	ULI-38R32E06-G EXPS		
31.5kA	50.4kA	E.(16")	800A		80020015VE	ULI-38R32E08 EXPS			
				●	80020019VE	ULI-38R32E08-G EXPS			

\* G: Grounding option in open position

Operation Type		Max. Voltage	Fault Making Current		Phase Distance	Rate Current	Option	Item code	Description
			Symmetrical	Assymetrical			G		
Inverted Type	S (Left Operation)	4.76kV	25kA	40kA	C.(10")	600A		70070029VE	ULI-05S25C06 EXPS
							●	70070109VE	ULI-05S25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70070030VE	ULI-05S25C12 EXPS
							●	70070110VE	ULI-05S25C12-G EXPS
			40kA	64kA	C.(10")	600A		70070027VE	ULI-05S40C06 EXPS
							●	70070107VE	ULI-05S40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70070028VE	ULI-05S40C12 EXPS	
						●	70070108VE	ULI-05S40C12-G EXPS	
		15kV	25kA	40kA	C.(10")	600A		70080029VE	ULI-15S25C06 EXPS
							●	70080109VE	ULI-15S25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70080030VE	ULI-15S25C12 EXPS
							●	70080110VE	ULI-15S25C12-G EXPS
	40kA		64kA	C.(10")	600A		70080027VE	ULI-15S40C06 EXPS	
						●	70080107VE	ULI-15S40C06-G EXPS	
	40kA	64kA	C.(10")	1200A		70080028VE	ULI-15S40C12 EXPS		
					●	70080108VE	ULI-15S40C12-G EXPS		
	T (Right Operation)	4.76kV	25kA	40kA	C.(10")	600A		70070033VE	ULI-05T25C06 EXPS
							●	70070113VE	ULI-05T25C06-G EXPS
			25kA	40kA	C.(10")	1200A		70070034VE	ULI-05T25C12 EXPS
							●	70070114VE	ULI-05T25C12-G EXPS
			40kA	64kA	C.(10")	600A		70070031VE	ULI-05T40C06 EXPS
							●	70070111VE	ULI-05T40C06-G EXPS
		40kA	64kA	C.(10")	1200A		70070032VE	ULI-05T40C12 EXPS	
						●	70070112VE	ULI-05T40C12-G EXPS	
15kV		25kA	40kA	C.(10")	600A		70080033VE	ULI-15T25C06 EXPS	
						●	70080113VE	ULI-15T25C06-G EXPS	
		25kA	40kA	C.(10")	1200A		70080034VE	ULI-15T25C12 EXPS	
						●	70080114VE	ULI-15T25C12-G EXPS	
	40kA	64kA	C.(10")	600A		70080031VE	ULI-15T40C06 EXPS		
					●	70080111VE	ULI-15T40C06-G EXPS		
40kA	64kA	C.(10")	1200A		70080032VE	ULI-15T40C12 EXPS			
				●	70080112VE	ULI-15T40C12-G EXPS			

# Ordering Codes

## Code List – VT Grounding Switch

Handle configuration		Max. Voltage	Rated peak current	Rated short-time withstand current	Phase distance	Item code	Description
Upright Type	L (Left Operation)	4.76kV	104kA	40kA/2sec	D.(12")	80030001VE	UGS-05L40D EXPS
		15kV	104kA	40kA/2sec	D.(12")	80040001VE	UGS-15L40D EXPS
		27kV	104kA	40kA/2sec	E.(16")	80080001VE	UGS-27L40E EXPS
		38kV	104kA	40kA/2sec	E.(16")	80090003VE	UGS-38L40E EXPS
	R (Right Operation)	4.76kV	104kA	40kA/2sec	D.(12")	80030002VE	UGS-05R40D EXPS
		15kV	104kA	40kA/2sec	D.(12")	80040002VE	UGS-15R40D EXPS
		27kV	104kA	40kA/2sec	E.(16")	80080002VE	UGS-27R40E EXPS
		38kV	104kA	40kA/2sec	E.(16")	80090002VE	UGS-38R40E EXPS

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