



Beyond X™

Susol
UL Smart MCCB
UL Smart Molded Case Circuit Breakers



LS ELECTRIC

Susol

UL Smart Molded Case Circuit Breakers

Susol UL Smart MCCB is developed by combining over 40 years of LS Electric's power equipment technology with modern features for connectivity and data analysis. The product's relay and metering functions have been updated for improved diagnostic and maintenance capabilities.

These days, energy digitalization is taking place in various fields. By applying Susol UL Smart MCCB to in-demand areas such as renewable energy, commercial distribution, and low voltage EV charging infrastructure, businesses and facilities can safely protect the line.



Susol Super Solution

UL Smart MCCB

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Rating



Basic type		UTS150			UTS250			UTS400			
Frame size	[AF]	150			250			400			
No. of poles	[P]	3			3			3			
Rated current, In	[A]	40, 100, 150			250			250, 400			
Interrupting capacity (kA rms) AC(50/60Hz) UL, CSA	Type	Ni	Hi	Li	Ni	Hi	Li	Ni	Hi	Li	
	240 Vac	65	100	150	65	100	150	65	100	150	
	480 Vac	35	65	100	35	65	100	35	65	100	
UL, CSA	600 Vac	18	35	50	18	35	50	18	35	50	
Trip units	ETSi	available			available			available			
ETSi: Standard	ETMi	available			available			available			
ETMi: Multi-function	ETHi	available			available			available			
ETHi: High performance	ETLi	available			available			available			
ETLi: Ultimate performance		available			available			available			
Trip relay		-			-			-			
Size	W	4.13 (105)			4.13 (105)			5.51 (140)			
	H	6.50 (165)			7.48 (190)			11.42 (290)			
	D	3.44 (87.5)			3.44 (87.5)			4.33 (110)			
Inch(mm)											
Standard		UL			UL			UL			
Unit mounted		available			available			available			
Mechanical lugs		available			available			available			
Busbar connectors		available			available			available			
Control wire terminal kit		available			available			available			
Terminal shields		available			available			available			
Interphase barriers		available			available			available			
Shunt trip		available			available			available			
Undervoltage trip		available			available			available			
Auxiliary switch		available			available			available			
Alarm switch		available			available			available			
Fault alarm switch		available			available			available			
Flange cable handle		available			available			available			
Flange variable-depth mechanism		available			available			available			
Directly-mounted rotary operating handle		available			available			available			
NEMA-Door-mounted operating mechanisms		available			available			available			
IEC-Door-mounted operating mechanisms		available			available			available			
Mechanical interlocks		available			available			available			
Handle padlock attachment		available			available			available			
Motor operator		available			available			available			
Residual current device		available			available			available			



UTS600			UTS800			UTS1200		
600			800			1200		
3			3			3		
600			400, 600, 800			800, 1000, 1200		
Ni	Hi	Li	Ni	Hi	Li	Ni	Hi	Li
65	100	150	50	100	150	50	100	150
35	65	100	35	65	100	35	65	100
18	35	50	18	35	50	18	35	50
available			-			-		
available			-			-		
available			-			-		
available			-			-		
-			available			available		
5.51 (140)			8.27 (210)			8.27 (210)		
13.39 (340)			12.88 (327.2)			16.26 (413)		
4.33 (110)			6 (152.5)			6 (152.5)		
UL			UL			UL		
available			available			available		
available			available			available		
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available			-			-		
available			-			-		

Ordering information

UTS

Base format

250

AF

150

250

400

600

Li

Breaking capacity(kA)

Ni	Normal (Standard) 80% Rated
Hi	High 80% Rated
Li	Ultimate 80% Rated
NTi	Normal (Standard) 100% Rated
HTi	High 100% Rated
LTi	Ultimate 100% Rated

ETLi

Trip Units

ETSi	Standard
ETMi	Multi-Function
ETHi	High Performance
ETLi	Ultimate Performance

250A

Rated current(A)

40A
100A
150A
250A
400A
600A

3P

No. of poles(P)

3P

LL

Terminals

LL	Lugs line \ Load side
L	Lugs line side
LO	Lugs load side
-	Bolt-on

UL

Suffix

UL UL type

UTS

Base format

800

AF

800

1200

Li

Breaking capacity(kA)

Ni	Normal (Standard) 80% Rated
Hi	High 80% Rated
Li	Ultimate 80% Rated
NTi	Normal (Standard) 100% Rated
HTi	High 100% Rated
LTi	Ultimate 100% Rated

NHO

Trip relay

Refer to page 15

400A

Rated current(A)

400A
600A
800A
1000A
1200A

3P

No. of poles(P)

3P

LL

Terminals

LL	Lugs line \ Load side
L	Lugs line side
LO	Lugs load side
-	Bolt-on

UL

Suffix

UL UL type

Trip unit exterior



Trip unit type

The Smart MCCB electronic trip unit is available in 4 variations. Standard (ETSi) for basic current metering, Multi-function (ETMi) for metering with additional communication functions, High Performance (ETHi) for added communication and voltage measurement functions, and Ultimate (ETLi) which adds mobile BLE communications.

ETSi (Standard)



ETMi (Multi-Function)



ETHi (High Performance)



ETLi (Ultimate Performance)



- **ETSi**

Standard/LSIG relay, current measurement

- **ETHi**

High Performance/LSIG relay, current/voltage/power measurement, communication function

- **ETMi**

Multi-Function/LSIG relay, current measurement, communication function

- **ETLi**

Ultimate Performance/LSIG relay, current/voltage/power measurement, communication function, mobile communication

Smart trip units (ETSi, ETMi, ETHi, ETLi)

Trip unit rated current

AF	Rated current
150AF	40A, 100A, 150A
250AF	250A
400AF	250A, 400A
600AF	600A
800AF	400A, 600A, 800A
1200AF	800A, 1000A, 1200A

Trip unit features

ETU		ETSi	ETMi	ETHi	ETLi
Relay (setting)					
		<ul style="list-style-type: none"> Long time Short time Instantaneous Ground fault 			
Button		available	available	available	available
LCD		available	available	available	available
Status LED		available	available	available	available
Test port		available	available	available	available
Measurement	Current	available	available	available	available
	Power	-	-	available	available
Communication	RS485	-	available	available	available
	BLE	-	-	-	available

Relay specification table

Protection	Setting range								Notes		
Long time protection	Current setting I_r (A)	Rated current		Min($0.4 \times I_n$)			Max($1.0 \times I_n$)		fine adjustments in 1A step		
		40A		16A			40A				
		100A		40A			100A				
		150A		60A			150A				
		250A		100A			250A				
		400A		160A			400A				
	600A		240A			600A					
	Time delay t_r (s) Accuracy $\pm 20\%$	Setting		0.5	1	2	4	8	16		
		Operation time	$1.5 \times I_r$	11	22	45	90	180	360		
			$6 \times I_r$	0.5	1	2	4	8	16		
			$7.2 \times I_r$	0.35	0.7	1.4	2.8	5.5	11		
Short time protection	Current setting I_{sd} (A) Accuracy $\pm 10\%$	$1.5 \times I_r \sim 10 \times I_r$ (18 steps)								fine adjustments in $0.5 \times I_r$ steps	
		Time delay t_{sd} (s) Accuracy $\pm 20\%$	Setting	I^2t_{Off}	0	0.1	0.2	0.3	0.4		
	I^2t_{On}		-	0.1	0.2	0.3	0.4				
			I^2t_{Off}	Operation time	Non-tripping	0.02	0.08	0.14	0.24	0.35	
Maximum break				0.08	0.14	0.24	0.35	0.50			
Instantaneous protection	Current setting I_i (A) Accuracy $\pm 15\%$	Setting	Rated current	Range					fine adjustments in $0.5 \times I_n$ steps		
			40A ~ 150A	$1.5 \times I_n \sim 15 \times I_n$ (28 steps)							
			250A ~ 400A	$1.5 \times I_n \sim 12 \times I_n$ (22 steps)							
			600A	$1.5 \times I_n \sim 11 \times I_n$ (20 steps)							
Non-tripping time: 10ms, Maximum break time: 60ms											
Ground leakage protection	Current setting I_g (A) Accuracy $\pm 10\%$	Setting	Rated current	Range					fine adjustments in $0.05 \times I_n$ steps		
			40A	$0.45 \times I_n \sim 1.0 \times I_n$ (12 steps)							
			100A	$0.35 \times I_n \sim 1.0 \times I_n$ (14 steps)							
			150A	$0.25 \times I_n \sim 1.0 \times I_n$ (16 steps)							
			I^2t_{Off}	Operation time	Non-tripping	0.02	0.08	0.14	0.24	0.35	
				Maximum break	0.08	0.14	0.24	0.35	0.50		
				Time delay t_g (s) Accuracy $\pm 25\%$	Setting	I^2t_{Off}	0	0.1	0.2	0.3	0.4
						I^2t_{On}	-	0.1	0.2	0.3	0.4

Smart trip units (ETSi, ETMi, ETHi, ETLi)

Measurement

Type		ETU Type				Display		
		ETSi	ETMi	ETHi	ETLi	ETU	HMI (3.5")	HMI (7.0")
Current	Each phase and neutral (Ia, Ib, Ic, In)	available	available	available	available	available	available	available
	Highest current of each phase and neutral (Imax of Ia, Ib, Ic, In)	available	available	available	available	available	-	-
	Ground fault (I _g)	available	available	available	available	available	-	-
	Highest Ground fault current (Imax of I _g)	available	available	available	available	available	-	-
	Average of phases: I _{avg} =(Ia+Ib+Ic)/3	available	available	available	available	-	-	-
	Unbalance *	available	available	available	available	-	-	-
Voltage	Phase voltage(Va, Vb, Vc)/ Line voltage(Vab, Vbc, Vca)	-	-	available	available	available	available	available
	Average voltage: V _{avg} =(Va(Vab)+Vb(Vbc)+Vc(Vca))/3	-	-	available	available	-	-	-
	Unbalance **	-	-	available	available	-	-	-
Frequency	Hz	-	-	available	available	-	available	-
Power	Active, Reactive, Apparent (total, each phase)	-	-	available	available	available	available	available
Power factor	Power Factor (total, each phase)	-	-	available	available	-	available	available
Energy	Active, Reactive, Apparent	-	-	available	available	available	available	available
Demand (Previous, Max)	Current (Ia, Ib, Ic)	-	available	available	available	-	available	-
	Power (Active, Reactive, Apparent)	-	-	available	available	-	available	available
Power Quality	THDV: Total Harmonic Distortion V	-	-	available	available	-	available	-
	THDI: Total Harmonic Distortion I	-	available	available	available	-	available	-

* Unbalance: (I_{ub}(%)) = ((Maximum) - |Minimum|)/Maximum) *100(%)

** Unbalance: (V_{ub}(%)) = (|Maximum deviation of the Line Voltage from its average value|/Average value of line voltage)*100(%)

Measurement accuracy

- Reference standards: IEC 61557-12
- Current: Three phase (0.2 ~ 0.4I_n : ± 1.5%, 0.4 ~ 1.2I_n : ± 1.0%), single phase (0.2 ~ 1.2I_n : ± 2.0%)
- Voltage: ±0.5%
- Power and Energy: Class 2

Type		Error range	Error
Power / Energy	PF 1.0	0.2~0.4I _n	±2.5%
		0.4~1.2I _n	±2.0%
	PF 10 PF 0.5(Lag) PF 0.8(Lead)	0.4~0.8I _n	±2.5%
		0.8~1.2I _n	±2.0%

ZSI function

1. ZSI in is not applicable for breaker below 250AF
2. ZSI cable length must be less than 3m

Diagnosis and maintenance

The UL Smart MCCB's ETU maintains an event log of device operation and settings changes that can be accessed via local HMI or over remote communications.

Record

1) Fault event

- In the event of relay operation, up to 50 records including the type and time of occurrence can be recorded
- If additional events occur, the oldest event in the log is overwritten (Roll-Over)
- Accident waveform recording: Record up to 2 events (current and voltage waveforms, 8 cycles)

2) Max. Demand and Max. Power value

- Records and saves the occurrence value and occurrence time

3) Device operation

- Operation/breaker on (input) time (hour)
- Number of mechanical/electrical/trip count
- Contact wear rate (%): wear rate according to the number of electric opening and closing of the main body
- Load profile (load usage rate): Usage time according to the used load (hour)
measured in 4 levels (0~49%In, 50~79%In, 80~89%In, >90%In)

Device management

Device information can be obtained remotely from communication enabled ETU's.

- Communication related items (communication address, speed, etc.)

Type			ETU Type				Display	
			ETSi	ETMi	ETHi	ETLi	ETU	HMI (3.5")
Event record	System	Status change, Setting change, System control, etc.(Up to 50) - Event type and time	-	available	available	available	-	available
	Fault	Long time/short time/instantaneous/ground fault(Up to 50) - Fault type, value and time	-	available	available	available	-	available
Maximum value record	Demand	Ia, Ib, Ic	-	available	available	available	-	available
		Active, Reactive, Apparent	-	-	available	available	-	available
	Power	Active, Reactive, Apparent	-	-	available	available	available	-
Device operation	Operating time (hour)		-	available	available	available	-	available
	On time (hour)		-	available	available	available	-	available
	Mechanical count (number of times)		-	available	available	available	-	available
	Electrical count (number of times)		-	available	available	available	-	available
	Trip count (number of times)		-	available	available	available	-	available
	Contact wear rate (%)		-	-	available	available	-	available
	Load profile		-	available	available	available	-	available

Smart trip units (ETSi, ETMi, ETHi, ETLi)

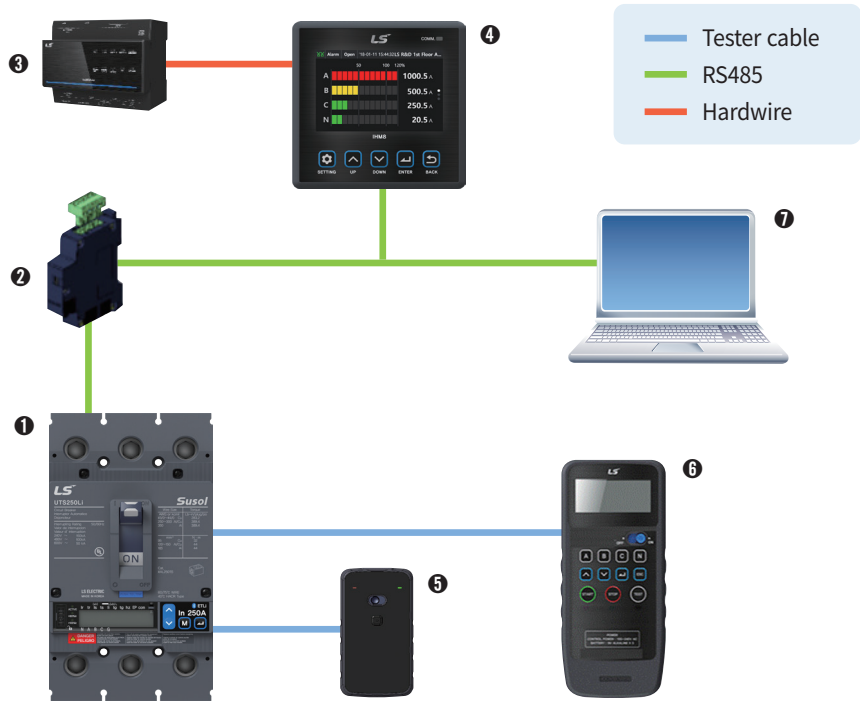
Types of events

	Items	Settings	Description
System event	Status change	Operating status inside a device	Operating the unlock key
			Current direction (forward/backward)
			Device restart
			Local/Remote
		Device DI status	Trip status (Trip/None trip)
			CB status (On/Off)
			ZSI DI
		Device DO status	Trip pulse output
			ZSI DO
		Device malfunction (self-diagnostics)	Memory failure
	RTC failure		
	Mechanical count alarm		
	Electrical count alarm		
	Contact life alarm		
	Device overheat		
	Others	MTD Status	
	Change settings	System configuration	Factory configuration
			System configuration
		Relay configuration	Long time
			Short time
			Instantaneous
			Ground fault
	N-phase protection		
	Use of ZSI		
	System control	Data Clear	Fault reset
			System event buffer clear
			Fault event buffer clear
Energy reset			
Max demand reset			
Max power reset			
Max Internal temperature reset			
Load profile clear			
Operation time[hour] reset			
On time[hour] reset			
Max. W reset by key			
Max. Var reset by key			
Max. VA reset by key			
Wh reset by key			
Varh reset by key			
VAh reset by key			
Test trip by key			
Device DO and CB control (Operation)		CB ON	
		CB OFF	
	CB RESET		

Fault event	Long time	Relay occurrence/return
	Short time	
	Instantaneous	
	Ground fault	

Composition of Smart MCCB

The UL Smart MCCB communications environment incorporates a multitude of features and capabilities, allowing integration into any system. With the T-Connection module, the breaker can send and receive data via RS485 to and from a higher-level operating software or an LS Display module/HMI. Accessing from the test port at the front of the breaker, data can be retrieved and viewed using the portable battery and trip module or portable OCR tester.



Number	Description	Notes
①	Smart MCCB	MCCB product
②	ITCM	T-Connection module
③	IPM	DC power module
④	IHM8	Display module
⑤	IPBM	Portable battery and trip module
⑥	Tester	OCR Tester
⑦	Communication	Higher-level operating software

Smart trip units (ETSi, ETMi, ETHi, ETLi)

Communication

Remote communication (RS485)

- 1) Communication protocol: Modbus RTU
- 2) Communication speed: 9,600, 19,200 and 38,400 bps
- 3) Communication distance: Max. 5m (between devices), can be connected to up to 16 devices
- 4) DC 24V power supplied from outside
- 5) Slave addresses: 1 ~ 247
- 6) Transmitted information: Device status, measurement values, setting information, record data, etc.

※ Communication available only when there is an external power supply.

Tester Port communication

- 1) DC 12V power supplied from outside
- 2) Connected devices: OCR Tester, IPBM: Input the relay test current signal.

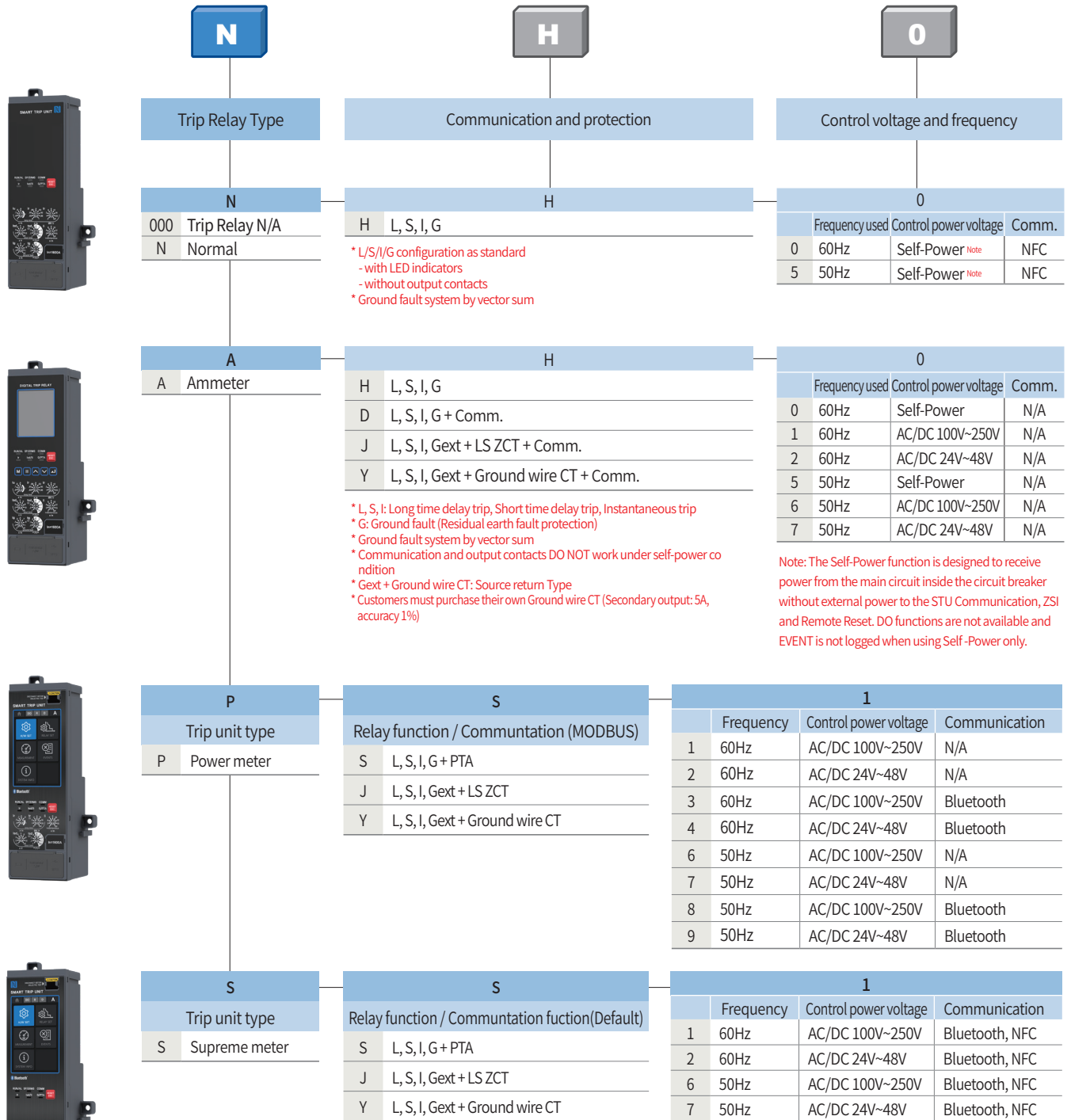
BLE communication

- 1) Communication range: 1m (in an open space)
- 2) Transmitted information: Device status, measurement values, setting information, record data, etc.

※ Communication available only when there is an external power supply.

* When the device is re-energized, the device time will be reset to 01:01:01, January 1, 2018.

Trip relay

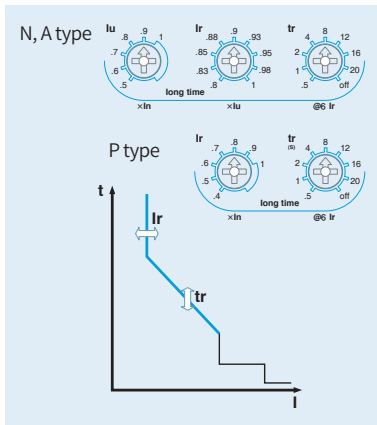


Note: The Self-Power function is designed to receive power from the main circuit inside the circuit breaker without external power to the STU Communication, ZSI and Remote Reset. DO functions are not available and EVENT is not logged when using Self-Power only.

- * Self-power is basic function (Automatic power supply to the trip unit without additional control power)
- * L, S, I: Long time delay trip, Short time delay trip, Instantaneous trip
- * G: Ground fault (Residual earth fault protection)
- * Gext + Ground wire CT: Source return type
- * PTA: Pre-trip alarm function
- * Customers must purchase their own ground wire CT (Secondary output: 5A, accuracy 1%)
- * The STU acceptable voltage range is 100 to 250V.

Operation characteristics

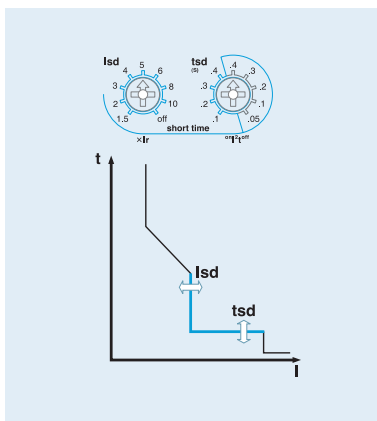
Long time delay (L)



The overload protection function has a time delayed characteristic with inverse ratio to fault current.

- Standard current setting knob: I_r *The S type STU is set on HMI (no knob).
 - Setting range in P type: $(0.4-0.5-0.6-0.7-0.8-0.9-1.0) \times I_n$
 - Setting range in N type and A type: $(0.4 \sim 1.0) \times I_n$
 - I_u : $(0.5-0.6-0.7-0.8-0.9-1.0) \times I_n$
 - I_r : $(0.8-0.83-0.85-0.88-0.9-0.93-0.95-0.98-1.0) \times I_u$
- Time delay setting knob: t_r *The S type STU is set on HMI (no knob).
 - Standard operating time is based on the time of $6 \times I_r$
 - Setting range: 0.5-1-2-4-8-12-16-20-Off sec
- Relay pick-up current
 - When current over $(1.11) \times I_r$ flows in, relay is picked up.
- Relay operates based on largest load current in R/S/T/N phase.

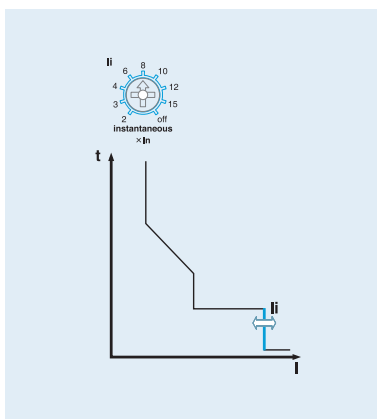
Short time delay (S)



The fault current (over current) protection function has a definite time characteristic and time delay with inverse ratio to fault current.

- Standard current setting knob: I_{sd} *The S type STU is set on HMI (no knob).
 - Setting range: $(1.5-2-3-4-5-6-8-10-Off) \times I_r$
- Time delay setting knob: t_{sd} *The S type STU is set on HMI (no knob exist).
 - Standard operating time is based on the time of $10 \times I_r$.
 - Inverse time (I^2t On): 0.1-0.2-0.3-0.4 sec
 - Definite time (I^2t Off): 0.05-0.1-0.2-0.3-0.4 sec
- Relay operates based on largest load current in R/S/T/N phase.
- When ZSI function is set, the protection operation will take place instantaneously with input absent by downstream devices. It is advised to disable ZSI function on the last downstream device.

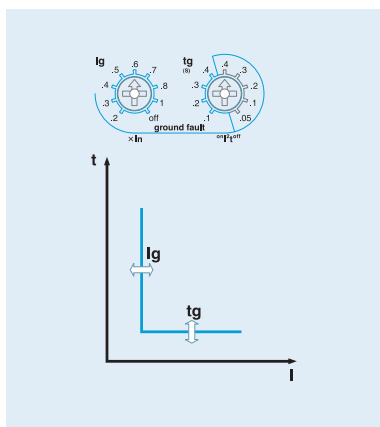
Instantaneous (I)



The function for breaking fault current above the setting value within the shortest time protects the circuit from short circuit.

- Standard current setting knob: I_i *The S type STU is set on HMI (no knob).
 - N/A/P type setting range: $(2-3-4-6-8-10-12-15-Off) \times I_n$
 - S type setting range: $(2-16) \times I_n$
- Relay operates based on largest load current in R/S/T/N phase.
- Total breaking time is below 50ms.

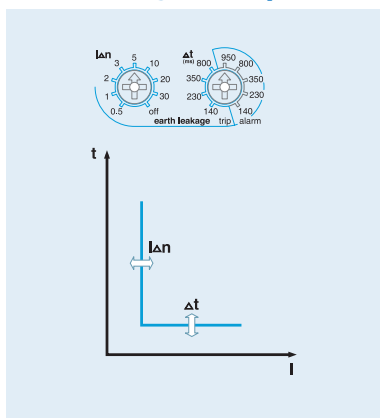
Ground Fault (G)



The function for breaking ground fault current above setting value after time delay protects the circuit from ground fault.

- Standard setting current knob: I_g *The P/S type is set on HMI (no knob).
- Setting range: (0.2-0.3-0.4-0.5-0.6-0.7-0.8-1.0-Off) $\times I_n$
- Time delay setting knob: t_g *The P/S type is set on HMI (no knob).
N/A type setting range
- Inverse time (I^2t On): 0.1-0.2-0.3-0.4 sec
- Definite time (I^2t Off): 0.05-0.1-0.2-0.3-0.4 sec
- P/S type setting range: 0.05 ~ 3.0 sec
- The fault current is the value detected by Vector sum of the current input as R, S, T phase (3P) or R, S, T, N (4P).
- When ZSI function is set, the protection operation will take place instantaneously with input absent by downstream devices. It is advised to disable ZSI function on the last downstream device.

Earth Leakage (G) - Option

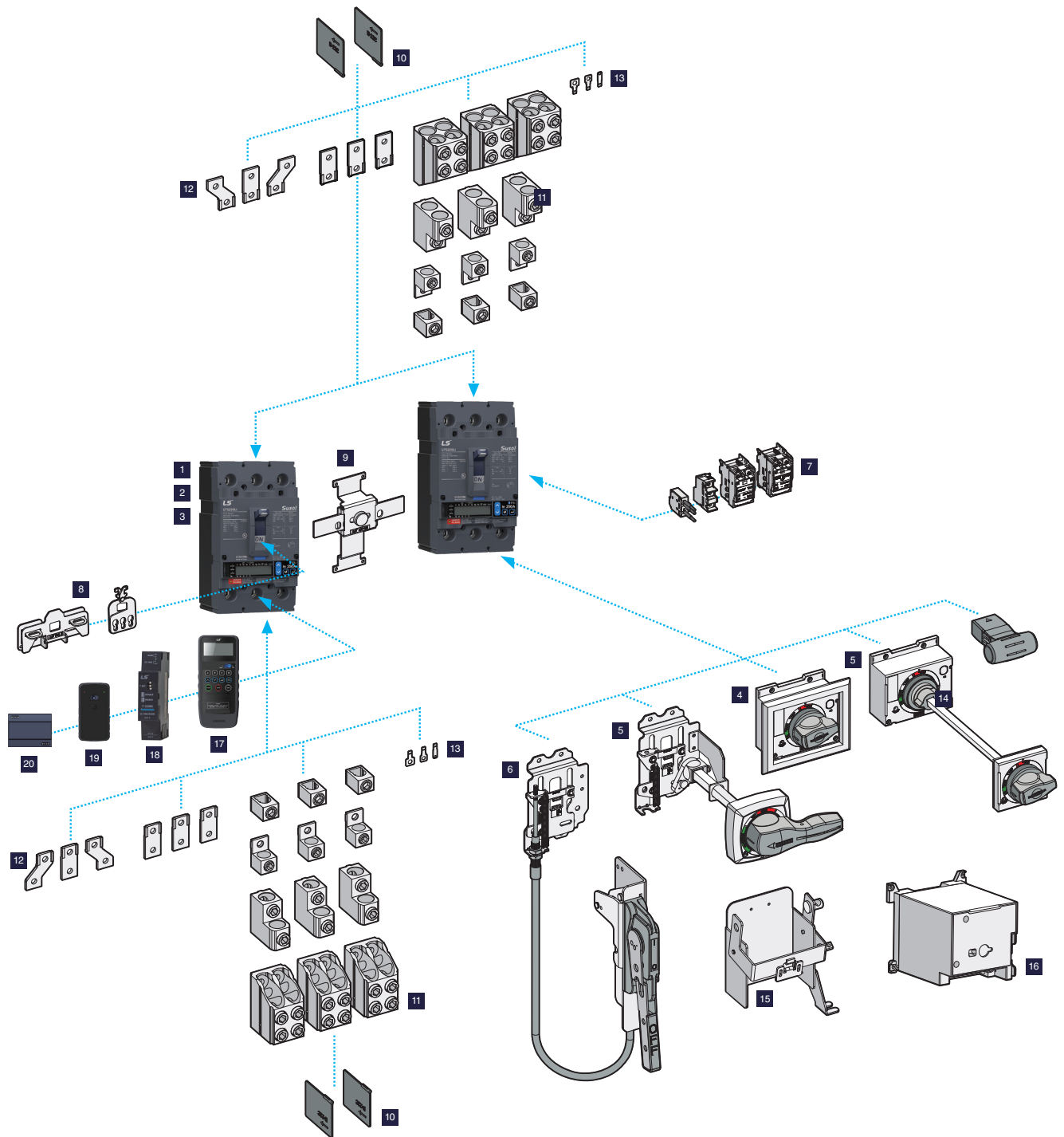


The function for breaking earth leakage current above setting value after time delay protects the circuit from earth leakage. (A, P, S type)

- Standard setting current knob: $I\Delta n$ *The P/S type is set on HMI (no knob).
- A type setting range: 0.5-1-2-3-5-10-20-30-Off (A)
- P/S type setting range: 0.1 ~ 30 (A)
- Time delay setting knob: Δt *The P/S type is set on HMI (no knob).
A type setting range
- Trip time: 140-230-350-800 ms
- Alarm time: 140-230-350-800-950 ms
P/S type setting range (Same as Trip/Alarm)
- Long time: 0.1 ~ 3.0 sec
- Short time: (0.1 ~ 3.0 sec)@30A
- Settings within its alarm range will prevent its breaker from tripping but activating its alarm.
- This function is enabled and can be used only with standard ZCT provided by LS or private external CT(secondary output 5A) selected by customers.
- When ZSI function is set, the protection operation will take place instantaneously with input absent by downstream devices. It is advised to disable ZSI function on the last downstream device.












Measurement function





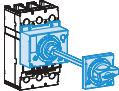
Type	Unit	Measurement element	Detailed element	Unit	Measurement range
S type P type	A type Current	Line current	Ia, Ib, Ic	A	0.02In~1.2In
		Normal current	I1		
		Reverse current	I2		
	Voltage	Line voltage	Vab, Vbc, Vca	V	1200V
		Phase voltage	Va, Vb, Vc	V	600V
		Normal voltage	V1	V	3V~690V
		Reverse voltage	V2		
	Angle	Line-to-line Line-to-current	$\angle VabIa, \angle VabIb, \angle VabIc,$ $\angle VabVbc, \angle VabVca$	°	0~360°
		Phase-to-phase	$\angle VaVb, \angle VaVc$		
		Phase-to-current	$\angle VaIa, \angle VbIb, \angle VcIc$		
	Power	Active power	Pa(ab), Pb(bc), Pc(ca), P	kW	0kW~99999kW
		Reactive power	Qa(ab), Qb(bc), Qc(ca), Q	kVar	0kVar~99999kVar
		Apparent power	Sa(ab), Sb(bc), Sc(ca), S	kVA	0kVA~99999kVA
	Energy	Active energy	WHa(ab), WHb(bc), WHc(ca), WH	kWh, MWh	0kWh~999,999MWh
		Reactive energy	VARHa(ab), VARHb(bc), VARHc(ca), VARH	kVarh, Mvarh	0kVarh~999,999MVarh
		Reverse active energy	rWHa(ab), rWHb(bc), rWHc(ca), rWH	kWh, MWh	0kWh~999,999MWh
	Freq.	Frequency (F)	Frequency	Hz	10~200Hz
	Power factor	Power factor (PF)	PFa(ab), PFb(bc), PFc(ca), PF	-	+ : Lead - : Lag
	Unbalance	Unbalance rate	Iunalance, Vunbalance	%	0.0~100.0
	Demand	Active power demand	Peak demand	kW	0kW~99999kW
		Current demand	Peak demand	A	0.02In~1.2In
	Harmonics	Voltage harmonics	1 st ~63 th harmonics of Va(ab), Vb(bc), Vc(ca)	V	4~690V
		Current harmonics	1 st ~63 th harmonics of Ia, Ib, Ic	A	95%(3, 5, 7) / 65%(etc)
		THD, TDD	-	%	0.0 ~ 100.0
		K-Factor	-	-	1.0 ~



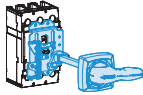

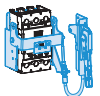
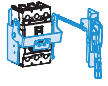
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|---|---------------------------|--|
| 1 Molded Case Circuit Breaker | 8 Locking Device (Handle) | 15 Operating Mechanism (VDM/COM) |
| 2 Motor Circuit Protector | 9 Mechanical Interlock | 16 Motor Operator (MOP) |
| 3 Molded Case Switch | 10 Interphase Barriers | 17 IPOT (Intelligent Potable OCR Tester) |
| 4 Direct Rotary Handle | 11 Mechanical Lugs | 18 T-connection module |
| 5 Extended Handle | 12 Busbar Connectors | 19 Portable Battery and Trip Module |
| 6 Flange Cable Handle | 13 Control Wire Terminal | 20 DC Power Module |
| 7 Internal Accessories (AL, AX, UVT, SHT) | 14 Auxiliary Handle | |

Accessory order codes

NO	Item	Type	AF	CODE	Description	Notes	
1	Lug Mount		UTS150i	70821172025	LUG ASS'Y,AL150TS 3P,UTS150i		
2			UTS250i	70821172027	LUG ASS'Y,AL250TS 3P,UTS250i		
3			UTS400i	70821173006	LUG ASS'Y,AL400TS 3P,UTS400,SET(2sets of 3)		
4			UTS600i	70821173008	LUG ASS'Y,AL600TS 3P,UTS600,SET(2sets of 3)		
5			UTS800i	70821176303	LUG ASS'Y,AL800TS 3P,UTS800		
6			UTS1200i	70821176304	LUG ASS'Y,AL1200TS 3P,UTS1200		
7	Bolt On Mount		UTS150i	83261172411	SPARE PART ASS'Y,3P BOLT ON,TP2a3,UTS150i		
8			UTS250i	83261172413	SPARE PART ASS'Y,3P BOLT ON,TP2b3,UTS250i		
9	Busbar Connectors		UTS150i	83261172322	SPARE PART ASS'Y,BUSBAR 3P,SP2a3a,UTS150		
10			UTS250i	83261172324	SPARE PART ASS'Y,BUSBAR 3P,SP2b3a,UTS250		
11			UTS400/600i	83261173322	SPARE PART ASS'Y,BUSBAR 3P,SP33a,UTS400/600		
12			UTS800/1200i	83261176801	83261176801	SPARE PART ASS'Y,BUSBAR 3P,SP53a,TS1600/UTS800-1200	
13				83261176803	83261176803	SPARE PART ASS'Y,BUSBAR VERTICAL 3P,SP53v,TS1600/UTS800-1200	VERTICAL
14				83261176805	83261176805	SPARE PART ASS'Y,BUSBAR EXTENSION 3P,SP53e,TS1600/UTS800-1200	EXTENSION
15	83261176808	83261176808		SPARE PART ASS'Y,BUSBAR 3P COM5/VDM5,UTS800/1200	COM5/VDM5		
16	CWT	Control Wire Terminals		UTS150i	62671172004	TERMINAL ASS'Y,CWT,UTS150	
17				UTS250i	62671172005	TERMINAL ASS'Y,CWT,UTS250	
18				UTS400i	62671173001	TERMINAL ASS'Y,CWT,UTS400	
19				UTS600i	62671173002	TERMINAL ASS'Y,CWT,UTS600	
20	PL (Lock in "OFF" position)	Padlock		UTS150/250i	56771172301	LOCK ASS'Y,PL2,UTS250	
21				UTS400i	56771173301	LOCK ASS'Y,PL3,UTS400	
22				UTS600i	56771176301	LOCK ASS'Y,PL5,UTS1200	
23	PHL (Lock in "ON" "OFF" or "ON")	Plate Handle Lock		UTS150/250i	56771172303	LOCK ASS'Y,PHL2,UTS250	
24				UTS400i	56771173303	LOCK ASS'Y,PHL3,UTS400	
25				UTS600i	56771176303	LOCK ASS'Y,PHL5,UTS1200	
26	MIT (For 3-Pole breaker)	Mechanical Interlock		UTS150/250i	56121172301	INTERLOCK ASS'Y,MIT23,UTS250	
27				UTS400i	56121173301	INTERLOCK ASS'Y,MIT33,UTS400	
28				UTS600i	56121176301	INTERLOCK ASS'Y,MIT53,UTS1200	
29	Barrier Insulation		UTS150/250i	83261172026	SPARE PART ASS'Y,BARRIER INSULATION 3P,B23,UTS150-UTS250		
30			UTS400/600i	83261173407	SPARE PART ASS'Y,BARRIER INSULATION 3P,B33,UTS400-UTS600		
31	AX	Auxiliary Switch		UTS150~600i	83011171301	A,AX,UTS150~UTS600	
32				UTS800/1200i	83011176301	A,AX,UTS1200	
33	AL	Alarm Switch		UTS150~600i	83011171302	A,AL,UTS150~UTS600	
34				UTS800/1200i	83011176303	A,AL,UTS1200	
35	SHT	Shunt Trip		UTS150~600i	83211171331	T,SHT,T,DC12V,UTS150~UTS600	
36				83211171332	83211171332	T,SHT,T,AC/DC24V,UTS150~UTS600	
37				83211171333	83211171333	T,SHT,T,AC/DC48V,UTS150~UTS600	
38				83211171334	83211171334	T,SHT,T,AC/DC110~130V,UTS150~UTS600	
39				83211171335	83211171335	T,SHT,T,AC220~240V/DC250V,UTS150~UTS600	
40				83211171336	83211171336	T,SHT,T,AC380~500V,UTS150~UTS600	
41				83211171341	83211171341	T,SHT,T,DC12V,UTS150~UTS600-LW	Lead Wire Type
42				83211171342	83211171342	T,SHT,T,AC/DC24V,UTS150~UTS600-LW	Lead Wire Type
43				83211171343	83211171343	T,SHT,T,AC/DC48V,UTS150~UTS600-LW	Lead Wire Type
44				83211171344	83211171344	T,SHT,T,AC/DC110~130V,UTS150~UTS600-LW	Lead Wire Type
45				83211171345	83211171345	T,SHT,T,AC220~240V/DC250V,UTS150~UTS600-LW	Lead Wire Type
46	83211171346	83211171346	T,SHT,T,AC380~500V,UTS150~UTS600-LW	Lead Wire Type			
47	UVT	Undervoltage Trip	UTS150~600i	83211171351	83211171351	T,UVT,T,AC/DC24V,UTS150~UTS600	
48				83211171352	83211171352	T,UVT,T,AC/DC48V,UTS150~UTS600	
49				83211171353	83211171353	T,UVT,T,AC/DC110~130V,UTS150~UTS600	
50				83211171354	83211171354	T,UVT,T,AC220~240V/DC250V,UTS150~UTS600	

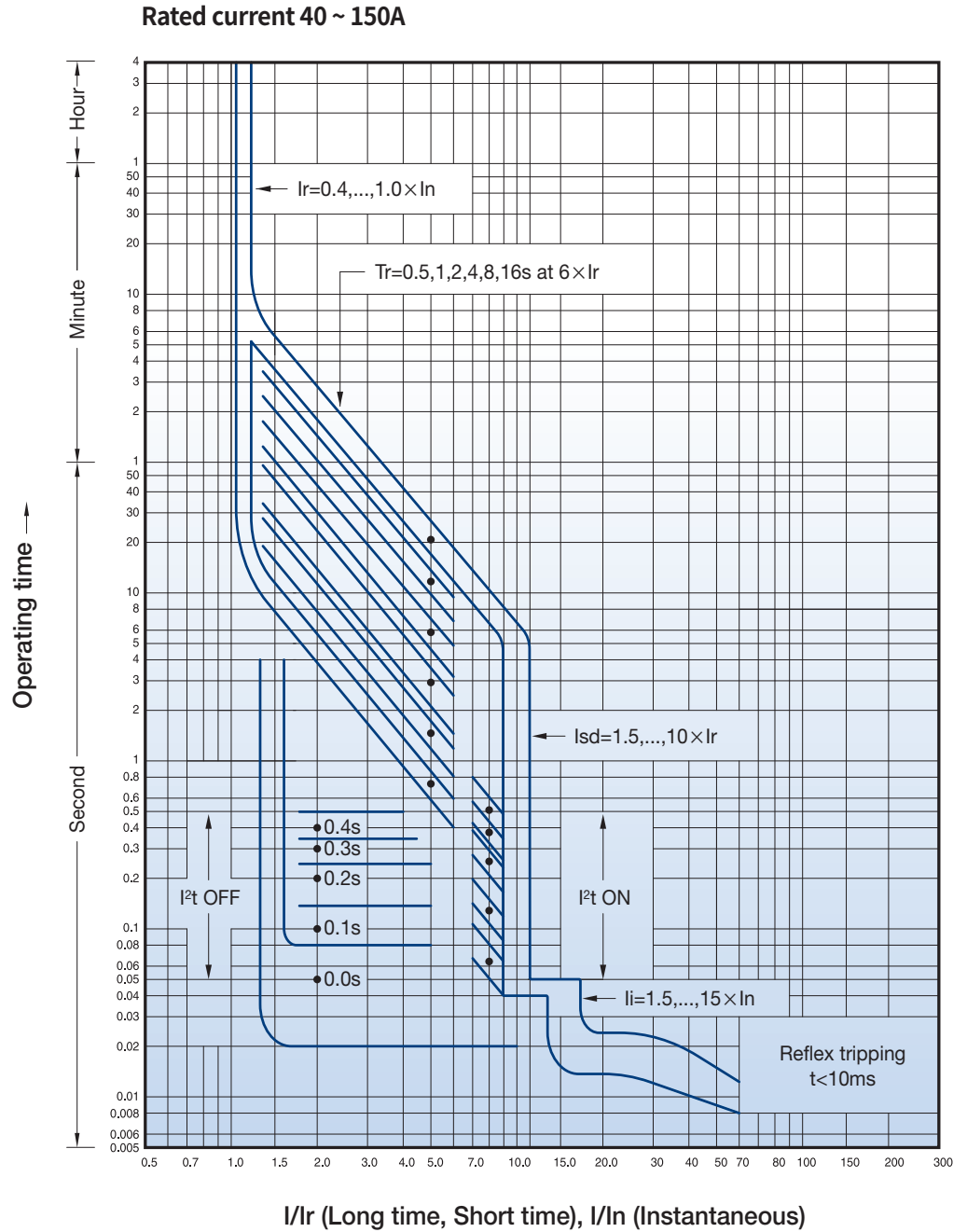
NO	Item	Type	AF	CODE	Description	Notes
51	UVT	Undervoltage Trip 	UTS150~600i	83211171355	T,UVT,T,AC380~440V,UTS150~UTS600	
52				83211171356	T,UVT,T,AC440~480V,UTS150~UTS600	
53				83211171361	T,UVT,T,AC/DC24V,UTS150~UTS600-LW	Lead Wire Type
54				83211171362	T,UVT,T,AC/DC48V,UTS150~UTS600-LW	Lead Wire Type
55				83211171363	T,UVT,T,AC/DC110~130V,UTS150~UTS600-LW	Lead Wire Type
56				83211171364	T,UVT,T,AC220~240V/DC250V,UTS150~UTS600-LW	Lead Wire Type
57				83211171365	T,UVT,T,AC380~440V,UTS150~UTS600-LW	Lead Wire Type
58				83211171366	T,UVT,T,AC440~480V,UTS150~UTS600-LW	Lead Wire Type
59				MOP	Motor Operator (Unable to communicate with MCCB) 	UTS150/250i
60	83471172202	MOTOR OPERATOR,MOP2U,AC110V/DC110V	Standard type(Not lockable)			
61	83471172203	MOTOR OPERATOR,MOP2U,AC230V/DC220V	Standard type(Not lockable)			
62	83471172204	MOTOR OPERATOR,MOP2U-L,DC24V	Lockable type			
63	83471172205	MOTOR OPERATOR,MOP2U-L,AC110V/DC110V	Lockable type			
64	83471172206	MOTOR OPERATOR,MOP2U-L,AC230V/DC220V	Lockable type			
65	UTS400/600i	83471173201	MOTOR OPERATOR,MOP3U,DC24V			Standard type(Not lockable)
66		83471173202	MOTOR OPERATOR,MOP3U,AC110V/DC110V			Standard type(Not lockable)
67		83471173203	MOTOR OPERATOR,MOP3U,AC230V/DC220V			Standard type(Not lockable)
68		83471173204	MOTOR OPERATOR,MOP3U-L,DC24V			Lockable type
69		83471173205	MOTOR OPERATOR,MOP3U-L,AC110V/DC110V			Lockable type
70	83471173206	MOTOR OPERATOR,MOP3U-L,AC230V/DC220V	Lockable type			
71	Rotary Operating Handles	Direct Mount 	UTS150/250i	83111172311	HANDLE(ACCE),DH2-S,UTS250	NEMA Type 1
72				83111172323	HANDLE(ACCE),DH2-L,UTS250	NEMA Type 1
73				83111172324	HANDLE(ACCE),DH2-R,UTS250	NEMA Type 1
74				83111172511	HANDLE(ACCE),DH2 (Q)-S,UTS250	NEMA Type 1
75				83111172519	HANDLE(ACCE),DH2 (Q)-L,UTS250	NEMA Type 1
76				83111172520	HANDLE(ACCE),DH2 (Q)-R,UTS250	NEMA Type 1
77			UTS400/600i	83111173311	HANDLE(ACCE),DH3-S,UTS400	NEMA Type 1
78				83111173323	HANDLE(ACCE),DH3-L,UTS400	NEMA Type 1
79				83111173324	HANDLE(ACCE),DH3-R,UTS400	NEMA Type 1
80				83111173511	HANDLE(ACCE),DH3 (Q)-S,UTS400	NEMA Type 1
81				83111173519	HANDLE(ACCE),DH3 (Q)-L,UTS400	NEMA Type 1
82				83111173520	HANDLE(ACCE),DH3 (Q)-R,UTS400	NEMA Type 1
83		UTS800/1200i	83111176311	HANDLE(ACCE),DH5-S 3P,UTS1200	NEMA Type 1	
84		Direct Mount (with Key lock) 	UTS150/250i	83111172312	HANDLE(ACCE),DHK2-S,UTS250	NEMA Type 1
85				83111172325	HANDLE(ACCE),DHK2-L,UTS250	NEMA Type 1
86				83111172326	HANDLE(ACCE),DHK2-R,UTS250	NEMA Type 1
87			UTS400/600i	83111173312	HANDLE(ACCE),DHK3-S,UTS400	NEMA Type 1
88				83111173325	HANDLE(ACCE),DHK3-L,UTS400	NEMA Type 1
89				83111173326	HANDLE(ACCE),DHK3-R,UTS400	NEMA Type 1
90		UTS800/1200i	83111176312	HANDLE(ACCE),DHK5-S 3P,UTS1200	NEMA Type 1	
91		Extended (Door Mount) 	UTS150/250i	83111172309	HANDLE(ACCE),REH2-S-12,UTS250	NEMA Type 1
92				83111172310	HANDLE(ACCE),REH2-S-16/24(WITHOUT SHAFT),UTS250	NEMA Type 1
93			UTS400/600i	83111173309	HANDLE(ACCE),REH3-S-12,UTS400	NEMA Type 1
94				83111173310	HANDLE(ACCE),REH3-S-16/24(WITHOUT SHAFT),UTS400	NEMA Type 1
95	UTS800/1200i		83111176307	HANDLE(ACCE),REH5-L-12,UTS1200	NEMA Type 1	
96			83111176308	HANDLE(ACCE),REH5-R-12,UTS1200	NEMA Type 1	
97			83111176309	HANDLE(ACCE),REH5-S-12,UTS1200	NEMA Type 1	
98			83111176310	HANDLE(ACCE),REH5-S-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 1	
99			83111176339	HANDLE(ACCE),REH5-L-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 1	
100			83111176340	HANDLE(ACCE),REH5-R-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 1	

Accessory order codes

NO	Item	Type	AF	CODE	Description	Notes	
101	Rotary Operating Handles	NEMA Door Mount	UTS150/250i	83111172301	HANDLE(ACCE),EHU2-12,UTS250	NEMA Type 1, 12	
102				83111172302	HANDLE(ACCE),EHV2-12,UTS250	NEMA Type 3, 3R, 4	
103				83111172303	HANDLE(ACCE),EHX2-12,UTS250	NEMA Type 3, 4, 4X	
104				83111172304	HANDLE(ACCE),EHU2-16/24(WITHOUT SHAFT),UTS250	NEMA Type 1, 12	
105				83111172305	HANDLE(ACCE),EHV2-16/24(WITHOUT SHAFT),UTS250	NEMA Type 3, 3R, 4	
106				83111172306	HANDLE(ACCE),EHX2-16/24(WITHOUT SHAFT),UTS250	NEMA Type 3, 4, 4X	
107			UTS400/600i		83111173301	HANDLE(ACCE),EHU3-12,UTS400	NEMA Type 1, 12
108					83111173302	HANDLE(ACCE),EHV3-12,UTS400	NEMA Type 3, 3R, 4
109					83111173303	HANDLE(ACCE),EHX3-12,UTS400	NEMA Type 3, 4, 4X
110					83111173304	HANDLE(ACCE),EHU3-16/24(WITHOUT SHAFT),UTS400	NEMA Type 1, 12
111					83111173305	HANDLE(ACCE),EHV3-16/24(WITHOUT SHAFT),UTS400	NEMA Type 3, 3R, 4
112					83111173306	HANDLE(ACCE),EHX3-16/24(WITHOUT SHAFT),UTS400	NEMA Type 3, 4, 4X
113			UTS800/1200i		83111176301	HANDLE(ACCE),EHU5-12,UTS1200	NEMA Type 1, 12
114					83111176302	HANDLE(ACCE),EHV5-12,UTS1200	NEMA Type 3, 3R, 4
115					83111176303	HANDLE(ACCE),EHX5-12,UTS1200	NEMA Type 3, 4, 4X
116					83111176304	HANDLE(ACCE),EHU5-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 1, 12
117					83111176305	HANDLE(ACCE),EHV5-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 3, 3R, 4
118					83111176306	HANDLE(ACCE),EHX5-16/24(WITHOUT SHAFT),UTS1200	NEMA Type 3, 4, 4X
119	Flange Handle with Sliding Operating Mechanism	Handle(with sliding mechanism and without cable) 	UTS150/250i	83111172307	HANDLE(ACCE),FHU2-36~72,UTS250	NEMA Type 1, 12, 3, 3R, 4	
120				83111172308	HANDLE(ACCE),FHX2-36~72,UTS250	NEMA Type 4, 4X	
121			UTS400/600i	83111173307	HANDLE(ACCE),FHU3-36~72,UTS400	NEMA Type 1, 12, 3, 3R, 4	
122				83111173308	HANDLE(ACCE),FHX3-36~72,UTS400	NEMA Type 4, 4X	
123	Flange Handle with Cable Operation Mechanism	Long Type Handle (with operating mechanism) 	UTS150/250i	83111172314	HANDLE(ACCE),COM2/FHU-S,UTS250	NEMA Type 1, 12, 3, 3R, 4	
124				83111172318	HANDLE(ACCE),COM2/FHX-S,UTS250	NEMA Type 4, 4X	
125			UTS400/600i	83111173314	HANDLE(ACCE),COM3/FHU-L,UTS400	NEMA Type 1, 12, 3, 3R, 4	
126				83111173318	HANDLE(ACCE),COM3/FHX-L,UTS400	NEMA Type 4, 4X	
127			UTS800/1200i	83111176314	HANDLE(ACCE),COM5/FHU-L,UTS1200	NEMA Type 1, 12, 3, 3R, 4	
128				83111176316	HANDLE(ACCE),COM5/FHX-L,UTS1200	NEMA Type 4, 4X	
129	Flange Handle with Variable Depth Mechanism	Long Type Handle (with operating mechanism) 	UTS150/250i	83111172313	HANDLE(ACCE),VDM2/FHU-S,UTS250	NEMA Type 1, 12, 3, 3R, 4	
130				83111172317	HANDLE(ACCE),VDM2/FHX-S,UTS250	NEMA Type 4, 4X	
131			UTS400/600i	83111173313	HANDLE(ACCE),VDM3/FHU-L,UTS400	NEMA Type 1, 12, 3, 3R, 4	
132				83111173317	HANDLE(ACCE),VDM3/FHX-L,UTS400	NEMA Type 4, 4X	
133			UTS800/1200i	83111176313	HANDLE(ACCE),VDM5/FHU-L,UTS1200	NEMA Type 1, 12, 3, 3R, 4	
134				83111176315	HANDLE(ACCE),VDM5/FHX-L,UTS1200	NEMA Type 4, 4X	
135	Cabel (for handle)	FH and COM Type	UTS150/250i	76611172801	CABLE ASS'Y,FH1/2-36in,UTE100-UTS250/TD125U-TS250U	36 inch	
136				76611172802	CABLE ASS'Y,FH1/2-48in,UTE100-UTS250/TD125U-TS250U	48 inch	
137				76611172803	CABLE ASS'Y,FH1/2-60in,UTE100-UTS250/TD125U-TS250U	60 inch	
138				76611172804	CABLE ASS'Y,FH1/2-72in,UTE100-UTS250/TD125U-TS250U	72 inch	
139			UTS400/600i	76611174801	CABLE ASS'Y,FH3/4-36in,UTS400-UTS600/TS400U-TS800U	36 inch	
140				76611174802	CABLE ASS'Y,FH3/4-48in,UTS400-UTS600/TS400U-TS800U	48 inch	
141				76611174803	CABLE ASS'Y,FH3/4-60in,UTS400-UTS600/TS400U-TS800U	60 inch	
142				76611174804	CABLE ASS'Y,FH3/4-72in,UTS400-UTS600/TS400U-TS800U	72 inch	
143			76611174809	CABLE ASS'Y,FH3/4-128in,UTS400-UTS600/TS400U-TS800U	128 inch		
144			UTS800/1200i	76611176301	CABLE ASS'Y,FH5-60in,UTS800/1200	60 inch	
145	76611176302	CABLE ASS'Y,FH5-84in,UTS800/1200		84 inch			
146	76611176303	CABLE ASS'Y,FH5-128in,UTS800/1200		128 inch			

Electronic trip unit, ETSi, ETMi, ETHi, ETLi

UTS150Ni/Hi/Li

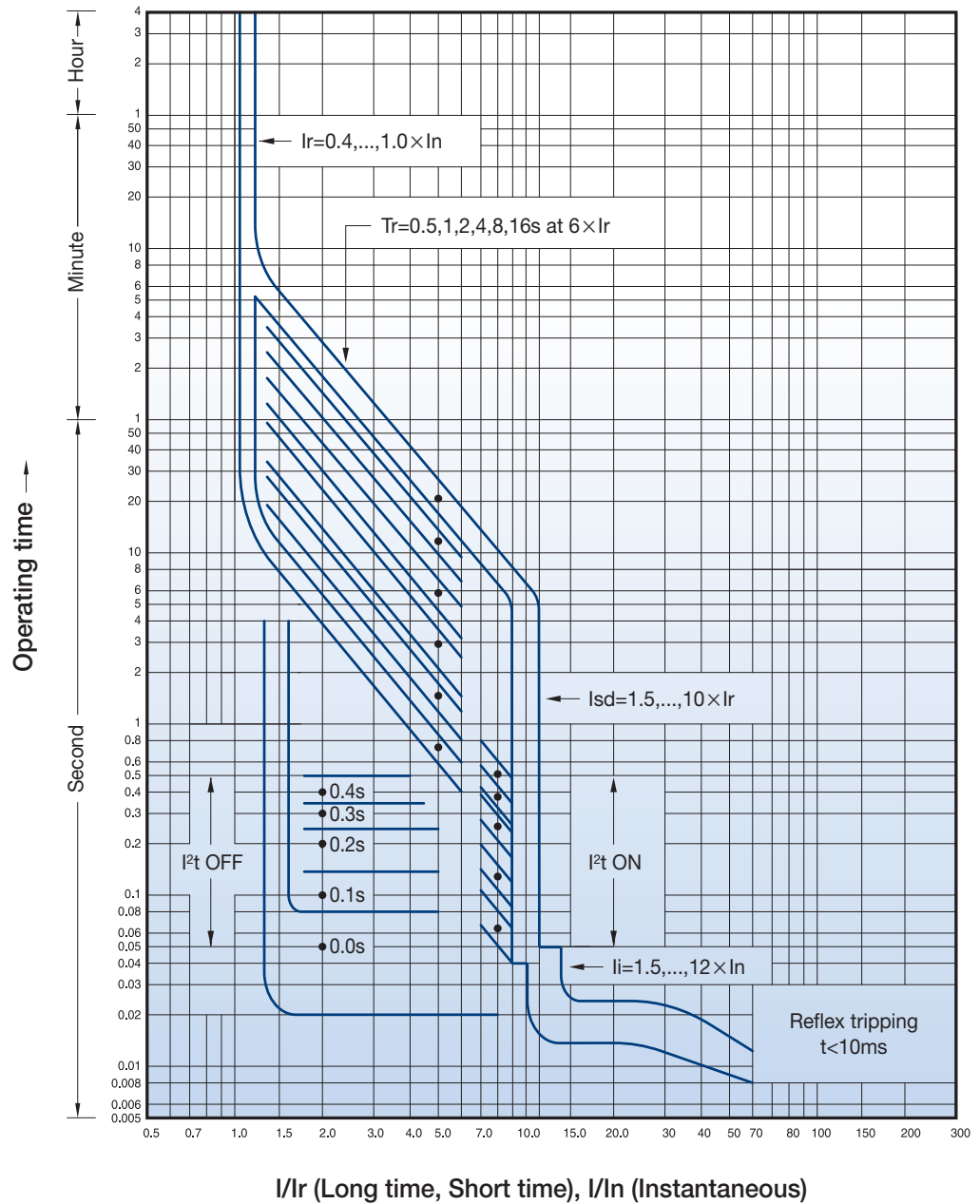


Characteristic curves

Electronic trip unit, ETSi, ETMi, ETHi, ETLi

UTS250Ni/Hi/Li
UTS400Ni/Hi/Li

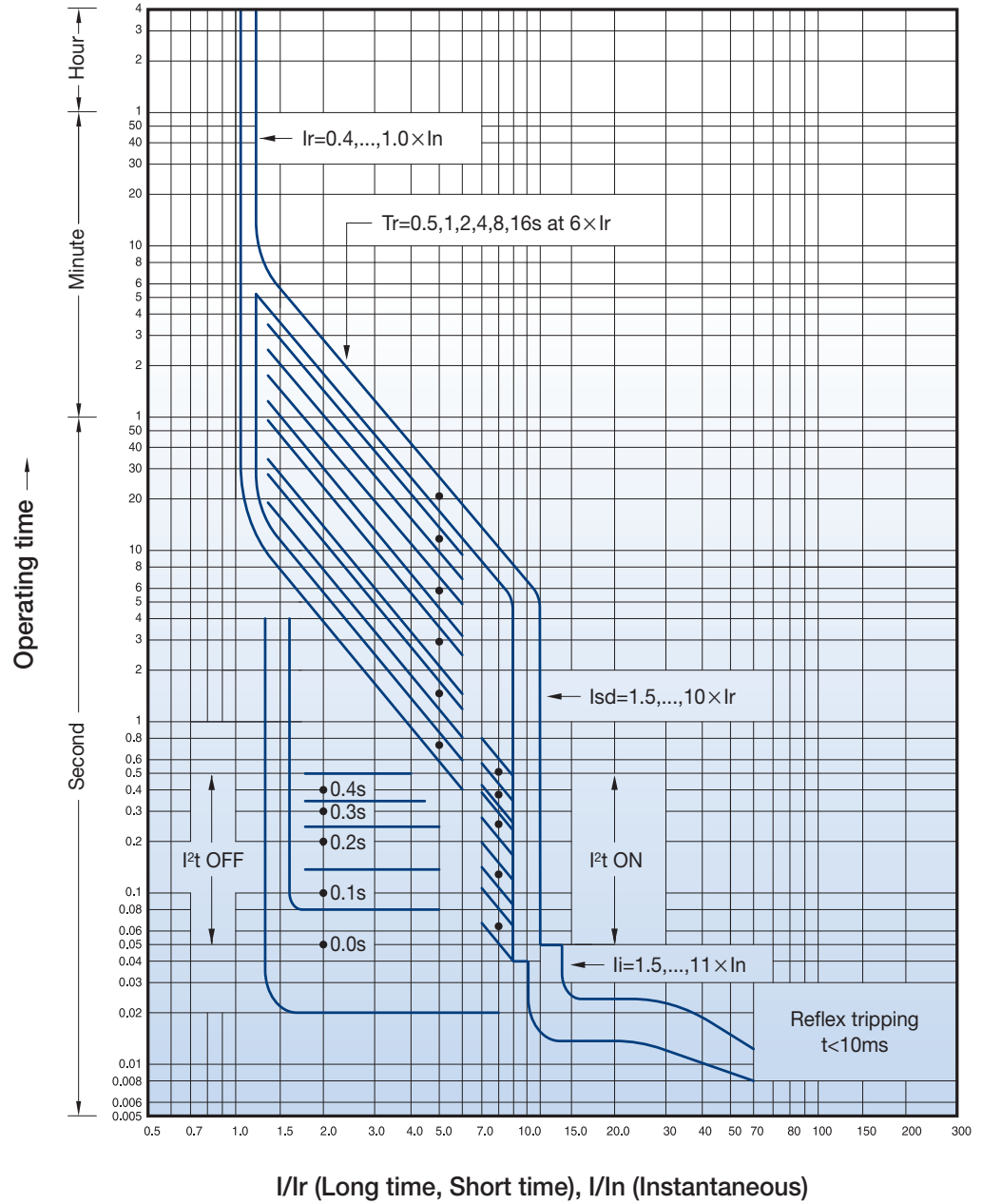
Rated current 250~400A



Electronic trip unit, ETSi, ETMi, ETHi, ETLi

UTS600Ni/Hi/Li

Rated current 600A



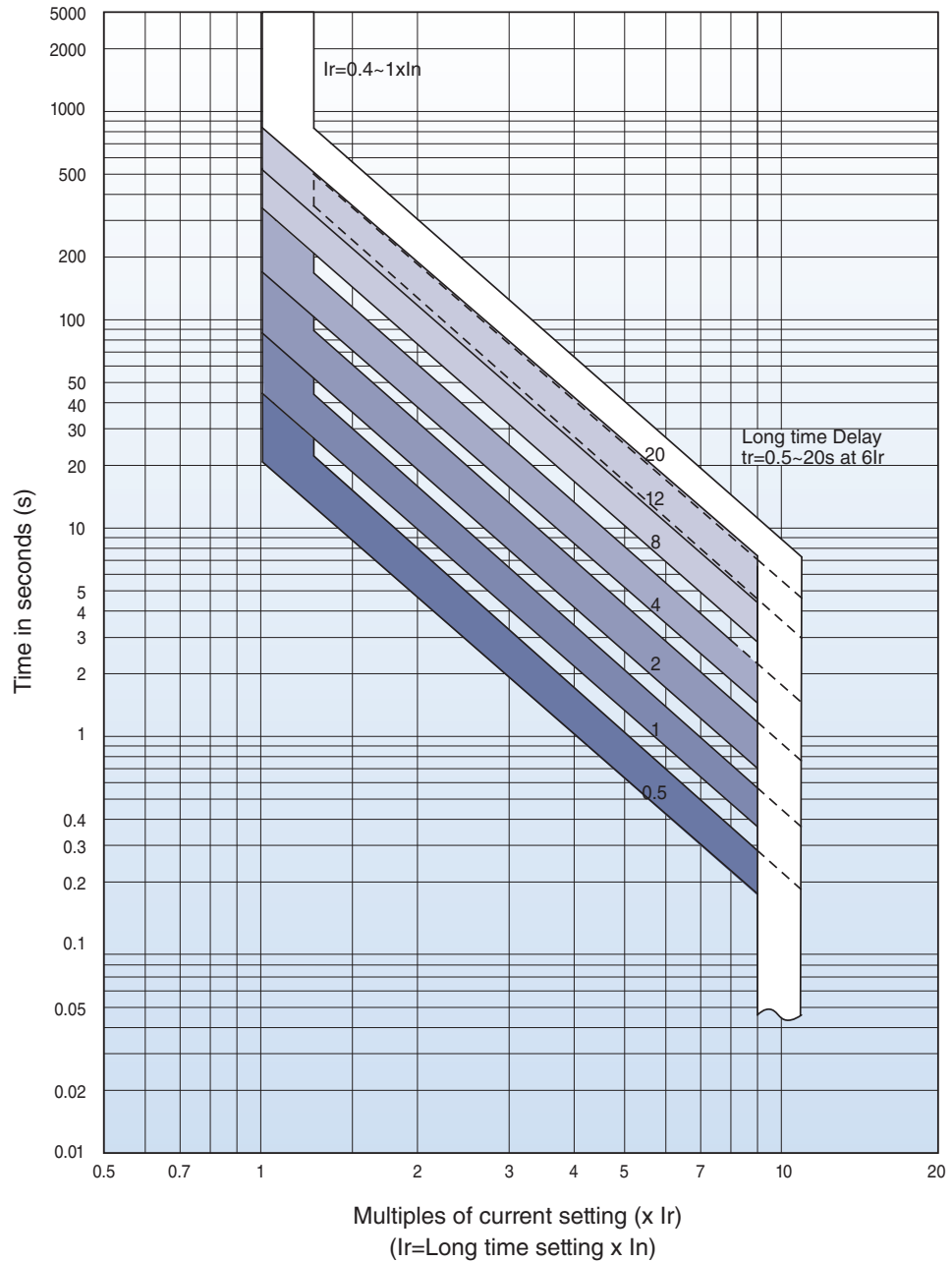
Characteristic curves

Electronic trip unit, ETSi, ETMi, ETHi, ETLi

Long time delay (400~1200A)

Long time pickup $0.4 \sim 1 \times I_r$
and delay $0.5 \sim 20s$

UTS800Ni/Hi/Li
UTS1200Ni/Hi/Li

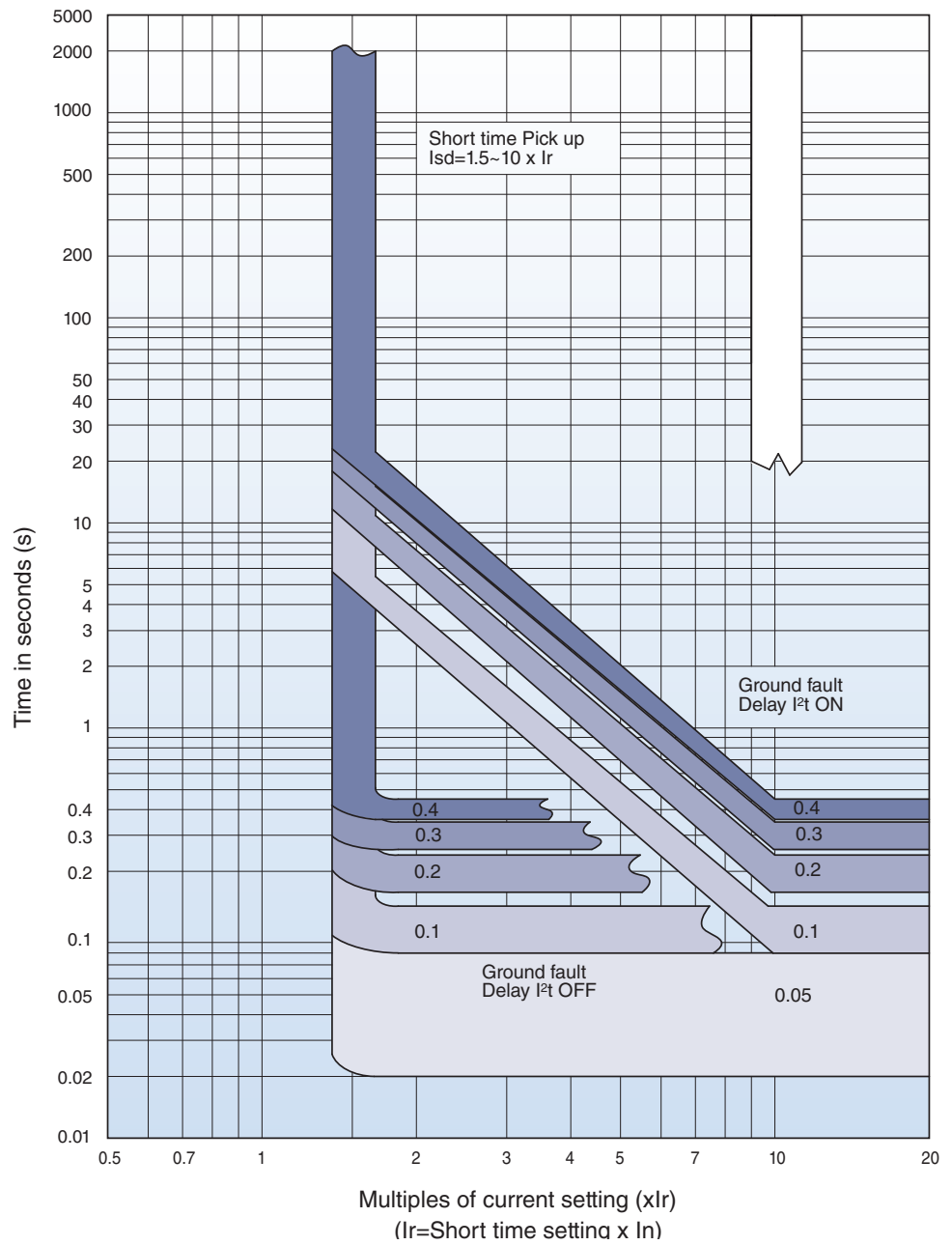


Electronic trip unit, ETSi, ETMi, ETHi, ETLi

Short time delay (400~1200A)

Short time pickup $1.5 \sim 10 \times I_r$
and delay $0.1 \sim 0.4s$

UTS800Ni/Hi/Li
UTS1200Ni/Hi/Li



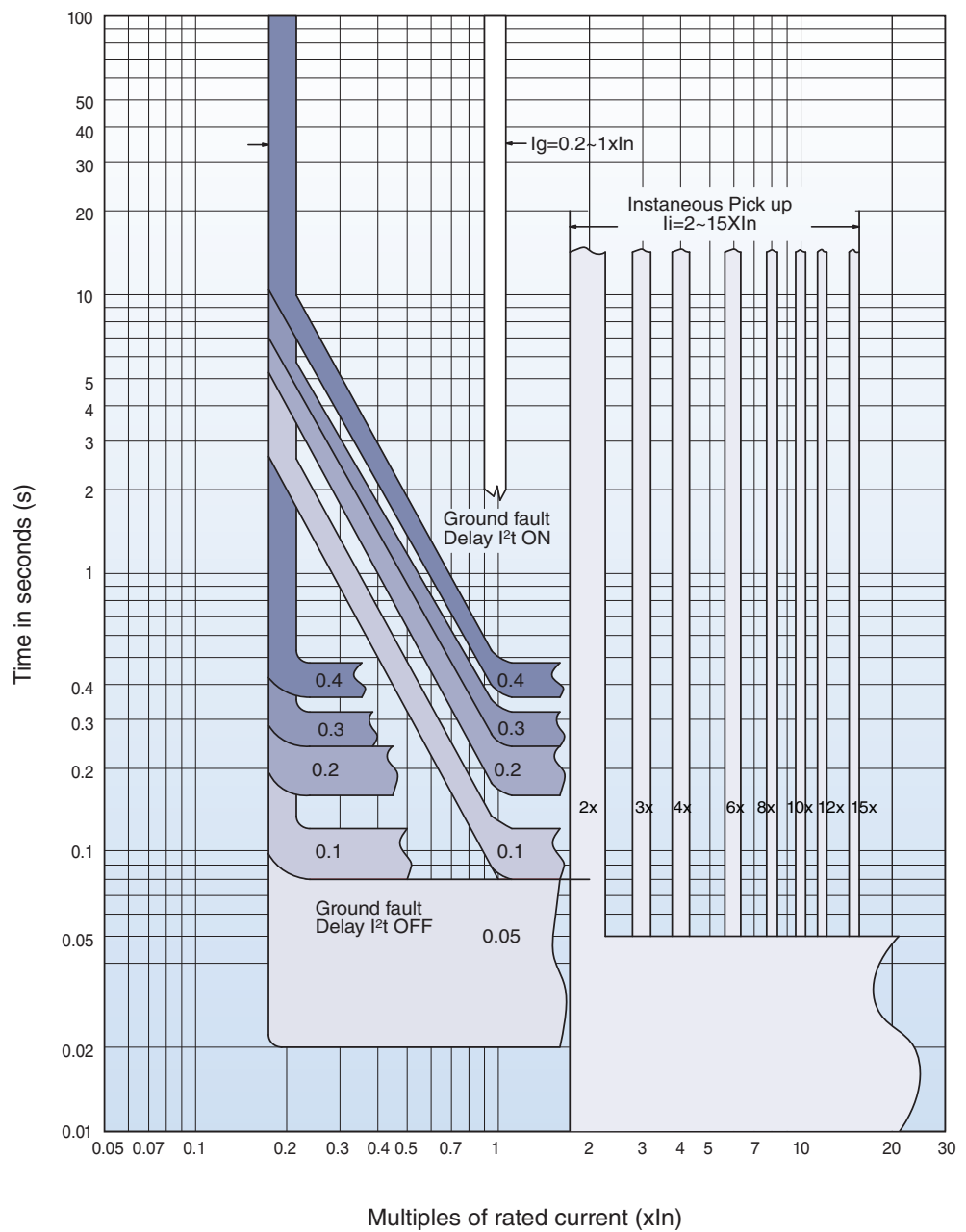
Characteristic curves

Electronic trip unit, ETSi, ETMi, ETHi, ETLi

Instantaneous and ground fault (400~1200A)

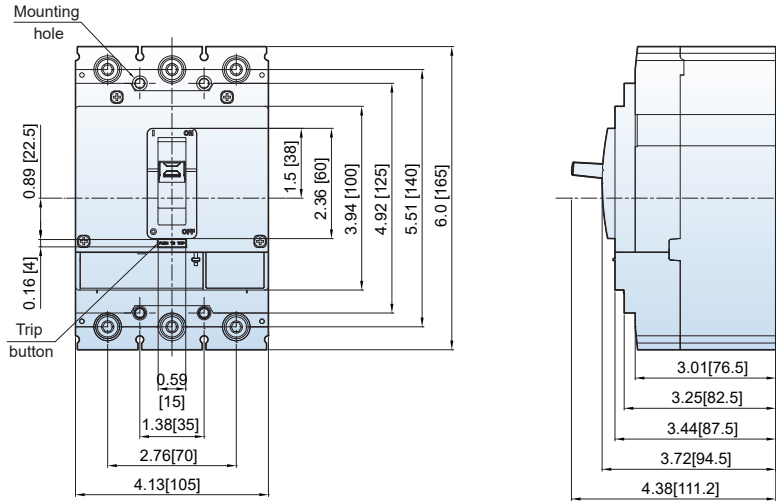
Instantaneous pickup $2\sim 15 \times I_n$
and Ground fault pickup $0.2\sim 1 \times I_n$
and delay $0.1\sim 0.4s$

UTS800Ni/Hi/Li
UTS1200Ni/Hi/Li

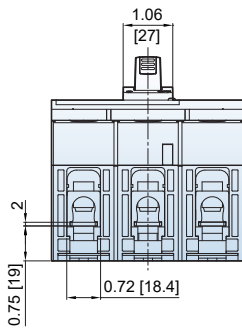


UTS150 3P Circuit Breaker [Lug type / Bolt-on type]

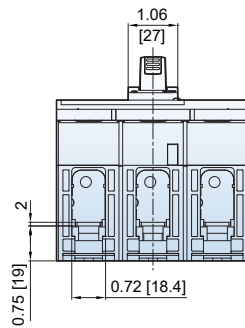
Dimensions: inch[mm]



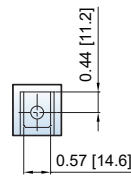
Lug type



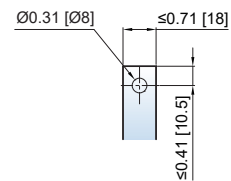
Bolt-on type



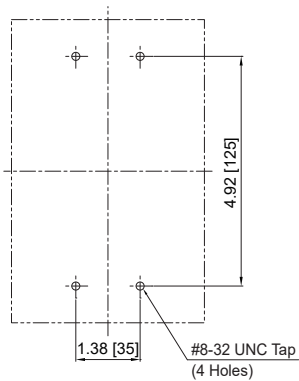
Terminal section



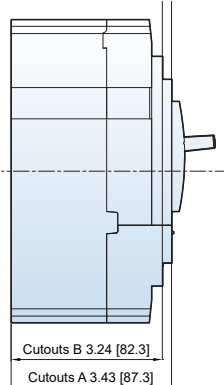
Conductor



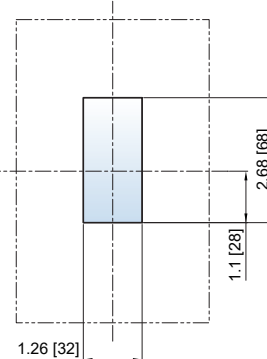
Panel drilling



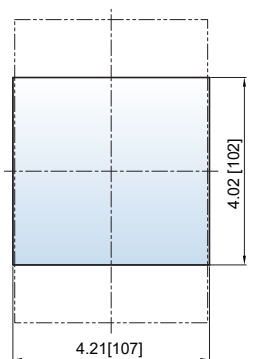
Door cutouts



Cutouts A



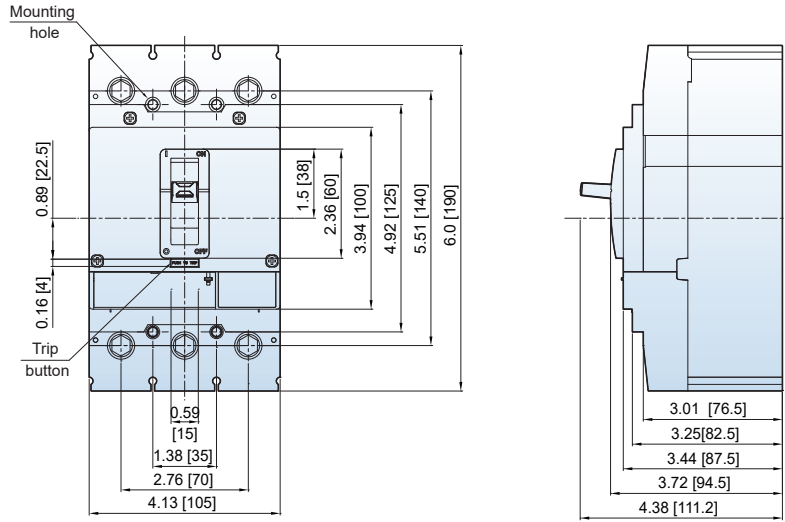
Cutouts B



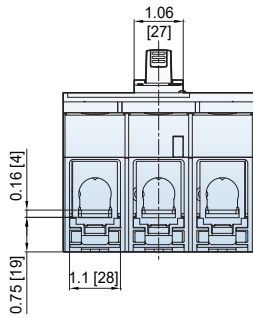
Dimensions

UTS250 3P Circuit Breaker [Lug type / Bolt-on type]

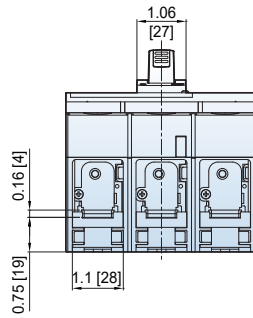
Dimensions: inch[mm]



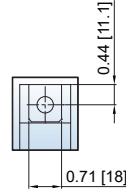
Lug type



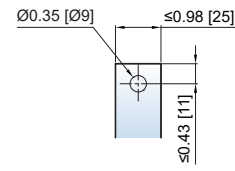
Bolt-on type



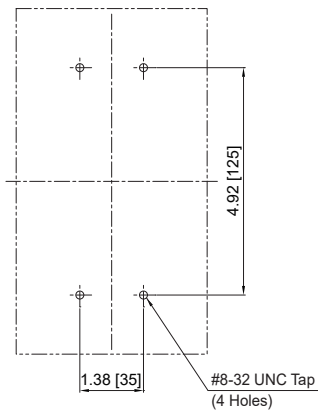
Terminal section



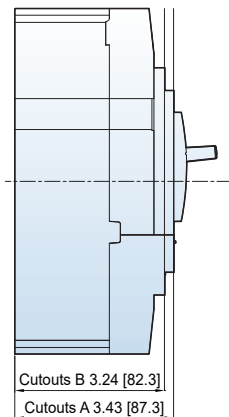
Conductor



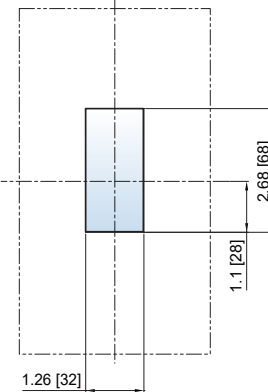
Panel drilling



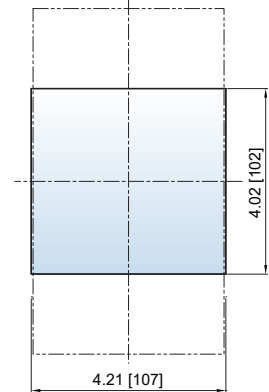
Door cutouts



Cutouts A

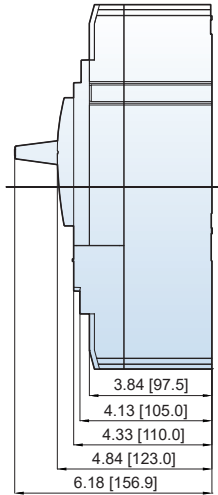
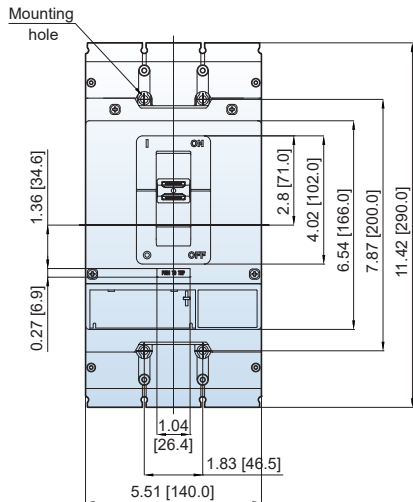


Cutouts B

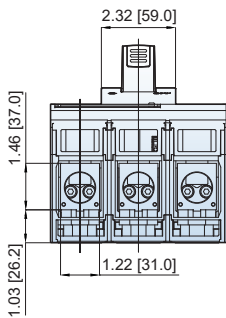


UTS400 3P Circuit Breaker [Lug type / Bolt-on type]

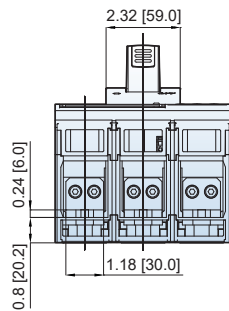
Dimensions: inch[mm]



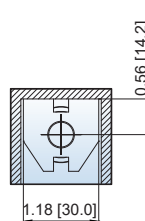
Lug type



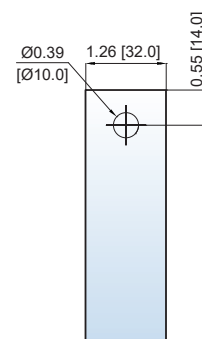
Bolt-on type



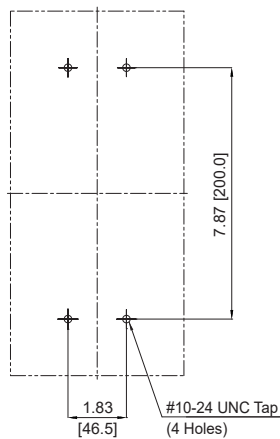
Terminal section



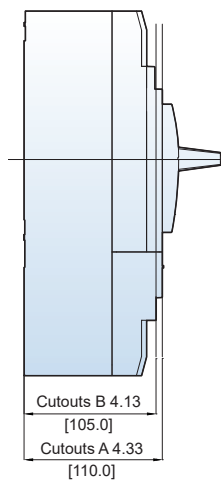
Conductor



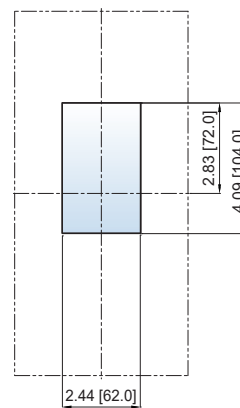
Panel drilling



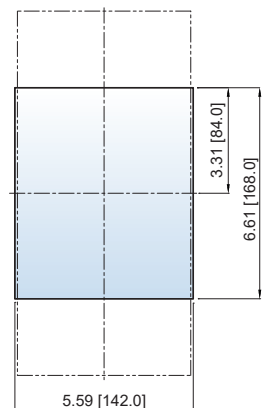
Door cutouts



Cutouts A



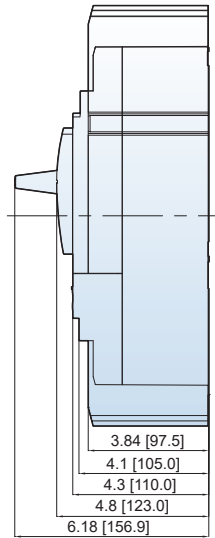
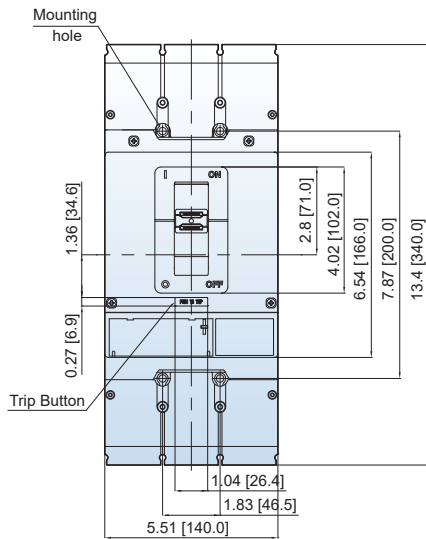
Cutouts B



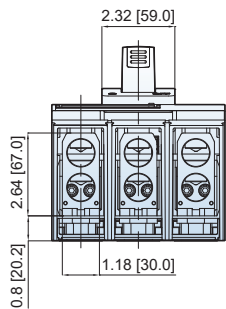
Dimensions

UTS600 3P Circuit Breaker [Lug type / Bolt-on type]

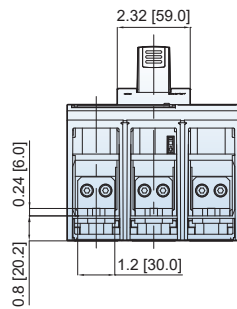
Dimensions: inch[mm]



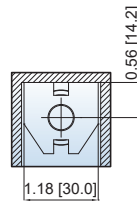
Lug type



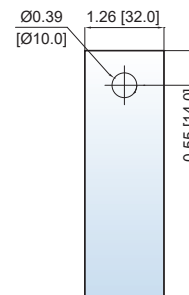
Bolt-on type



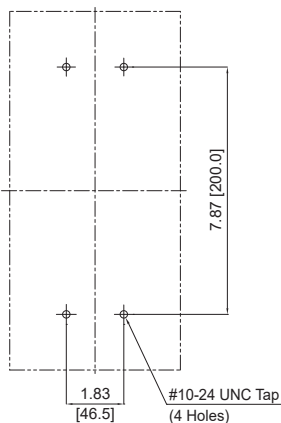
Terminal section



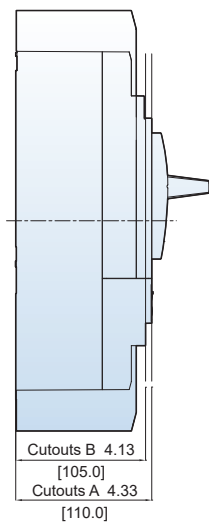
Conductor



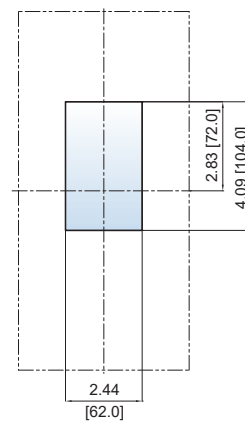
Panel drilling



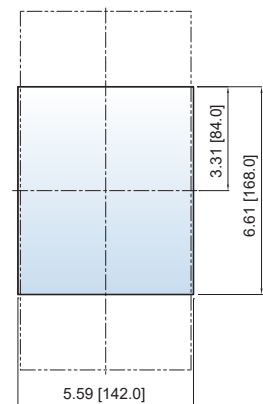
Door cutouts



Cutouts A

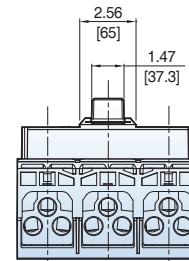
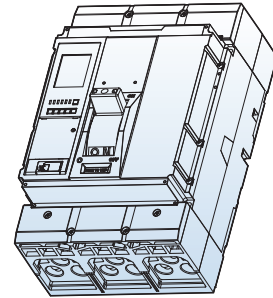
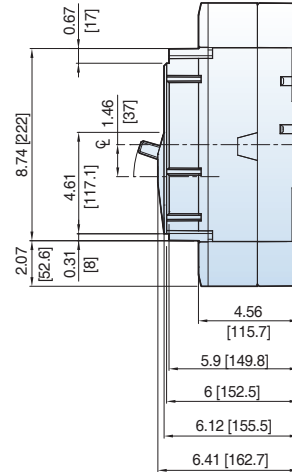
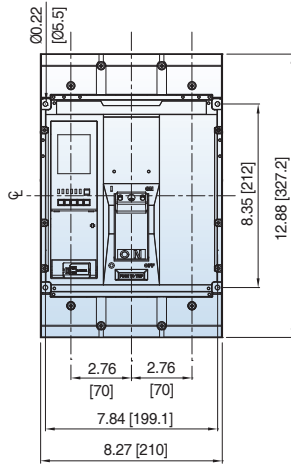


Cutouts B

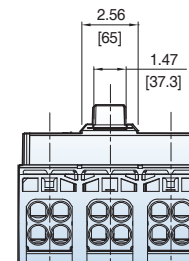
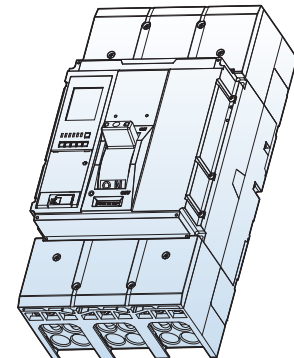
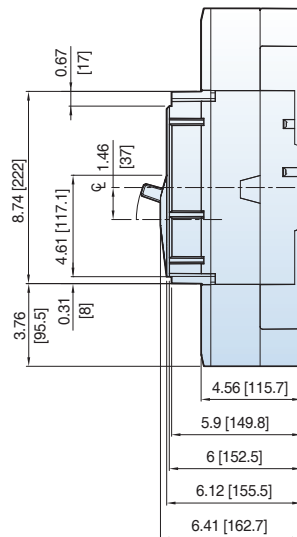
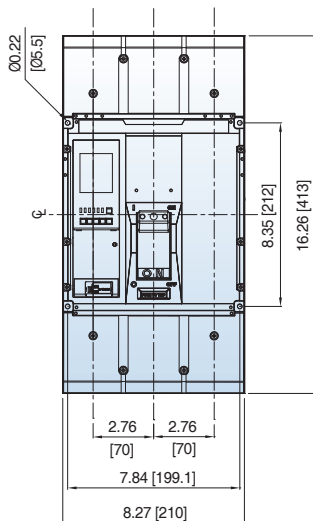


UTS800 3P Circuit Breaker [Lug type]

Dimensions: inch[mm]



UTS1200 3P Circuit Breaker [Lug type]



Global Business

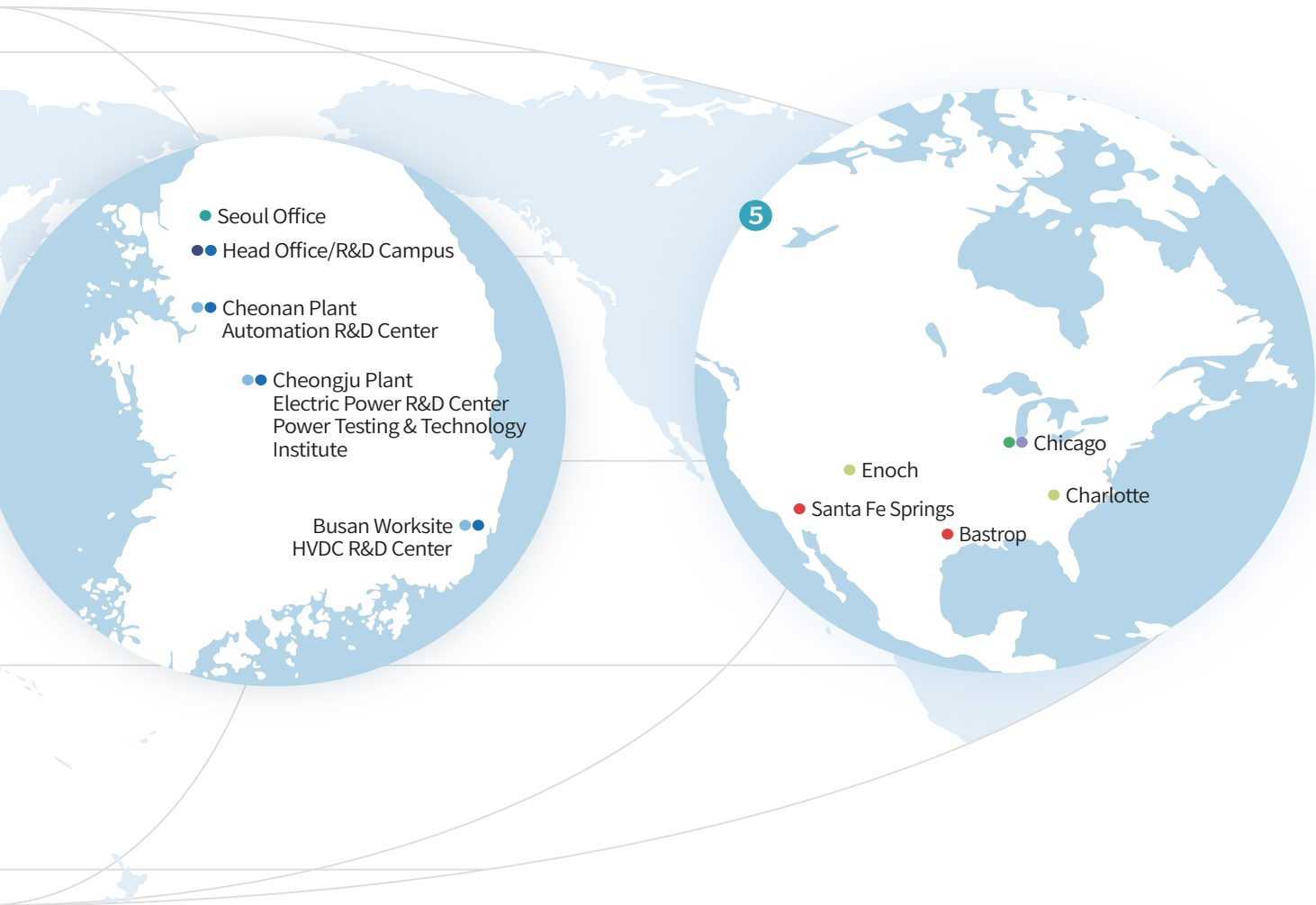


LS ELECTRIC set a mid- to long-term vision for each overseas market to broaden its global business presence. In addition to pursuing the evolution of our existing businesses, we are discovering new business opportunities and strengthening the basis of business operations to take a tailor-made approach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

 Manufacturing industrial electronic equipment Dalseo-gu, Daegu, Korea	 Selling BAS/IBS and GBS systems Anyang-si, Gyeonggi-do, Korea	 Providing total IT services Yongsan-gu, Seoul, Korea	 Manufacturing industrial communication equipment Anyang-si, Gyeonggi-do, Korea
Anyang	● Overseas Sales Subsidiaries	Hoofddorp (Netherlands), Dubai (UAE), Tokyo (Japan), Chicago (US), Istanbul (Turkey), Jakarta (Indonesia), Madrid (Spain)	
Yongsan	● Overseas Branches	Shanghai (China), Beijing (China), Guangzhou (China), Qingdao (China), Nanjing (China), Chengdu (China), Shenyang (China), Tokyo (Japan), Hanoi (Vietnam), Ho Chi Minh (Vietnam), Moscow (Russia), Bangkok (Thailand), Santa Fe Springs (US), Singapore (Singapore), Bengaluru (India), Brescia (Italy), Bastrop Campus (US)	
Cheongju, Cheonan, Busan	● Overseas R&D Center	Wuxi (China)	
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)			



LS ELECTRIC America Inc. Chicago Head Office

625 Heathrow Dr, Lincolnshire, IL 60069, USA
Tel: 1-224-352-2265 E-Mail: sales.us@lselectricamerica.com

Headquarter

127 LS-ro (Hogye-dong) Dongan-gu, Anyang-si, Gyeonggi-Do, 14119, Korea

Seoul Office

LS Yongsan Tower, 92, Hangang-daero, Yongsan-gu, Seoul, 04386, Korea
TEL: 82-2-2034-4916, 4684, 4429

China

LS ELECTRIC (Dalian) Co., Ltd.
+86-411-8730-7560
china.dalian@lselectric.com.cn

LS ELECTRIC (Wuxi) Co., Ltd.
+86-510-8534-6666
china.wuxi@lselectric.com.cn

LS ELECTRIC (Lishui) Co., Ltd.
+86-133-6207-7980
china.lishui@lselectric.com.cn

Shanghai Office
+86-21-5237-9977
china@lselectric.com.cn

Beijing Office
+86-10-5095-1631
china@lselectric.com.cn

Guangzhou Office
+86-20-3818-2883
china@lselectric.com.cn

Qingdao Office
+86-532-8501-2065
china@lselectric.com.cn

Chengdu Office
+86-28-8670-3201
china@lselectric.com.cn

Nanjing Office
+86-25-8467-0005
china@lselectric.com.cn

India

India Office
+91-80-6142-9108
Info_india@ls-electric.com

Indonesia

PT. LS ELECTRIC INDONESIA
+62-21-2933-7614
indonesia@ls-electric.com

PT SYMPHOS ELECTRIC
+62-81-1900-1474
marketing@symphos-weltraf.com

Italy

Italy office
+39-030-8081-833
italia@ls-electric.com

Japan

LS ELECTRIC Japan Co., Ltd.
+81-3-6268-8241
japan@ls-electric.com

Tokyo Office
+81-3-6268-8241
tokyo@ls-electric.com

Netherlands

LS ELECTRIC Europe B.V.
+31-20-654-1424
europartner@ls-electric.com

Russia

Moscow Office
+7-499-682-6130
info@lselectric-ru.com

Singapore

Singapore Office
+65-6958-8162
singapore@ls-electric.com

Spain

LS ELECTRIC IBERIA S.L.U.
+34-910-28-02-74
iberia@ls-electric.com

Thailand

Bangkok Office
+66-2-128-0295
thailand@ls-electric.com

Türkiye

LS ELECTRIC Türkiye Co., Ltd.
+90-212-806-1252
turkiye@ls-electric.com

U.A.E

LS ELECTRIC Middle East FZE (Dubai)
+971-4-886-5360
middleeast@ls-electric.com

USA

LS ELECTRIC America Inc.
+1-800-891-2941
sales.us@lselectricamerica.com

LS ENERGY SOLUTIONS LLC
+1-980-221-0654
cmfeldman@ls-es.com

MCM Engineering II
+1-435-865-0125
sales.us@lselectricamerica.com

America Western Office
+1-949-333-3140
america@ls-electric.com

America Bastrop Campus
+1-224-352-2265
sales.us@lselectricamerica.com

Vietnam

LS ELECTRIC Vietnam Co., Ltd.
+84-222-2221-110
vietnam@ls-electric.com

Hanoi Sales Office
+84-24-6275-8054
vietnam@ls-electric.com

Ho Chi Minh Sales Office
+84-3823-7890
vietnam@ls-electric.com

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