

Top 100
Global
Innovator
for 10 years


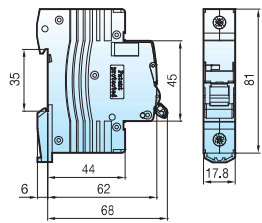
Miniature Circuit Breakers BK63S



LS ELECTRIC

1, 2, 3 and 4pole series up to 63AF [IEC 60898-1]



Type		MCB
		BK63S
Protection		Overload and short circuit
Rated current		1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Characteristic		B, C, D curve
Poles		1P, 2P, 3P, 4P
Breaking capacity		1pole 1A ~ 63A 6kA at 240/415VAC
Standard		IEC 60898-1
Approval		-
Type of trip		Thermal magnetic release
Endurance	Electrical	10,000 operations
	Mechanical	20,000 operations
Mount		On 35mm DIN rail
Width		17.8mm per pole
Terminal		Lug type (Cable up to 25mm ²)
Auxiliary switch, AX & AL Optional		 <p>1 changeover contact 6A at 240VAC, 3A at 415VAC (AX/ AL) 6A at 24VDC, 2A at 48VDC, 1A at 130VDC Lug terminal Cable capacity 0.75~2.5mm² 8.8mm wide</p>
Dimension		

Optional accessories code

Model	Order No.
BK63S AX 6A MALAYSIA SIRIM	061501038N
BK63S AL 6A MALAYSIA SIRIM	061501048N
BK63S SHT AC110-415V MALAYSIA SIRIM	061501058N
BK63S SHT AC/DC 24V MALAYSIA SIRIM	061501068N
BK63S UVT/OVT MALAYSIA SIRIM	061501078N



BK63S 2P

BK63S type



Technical data

Standard	Confirming to IEC 60898-1
Protection	Against overload and short circuit
Rated current [In]	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Rated voltage [Ue]	1pole 240/415VAC 50/60Hz 2~4pole 415VAC 50/60Hz
Ambient temperature	-5°C ~ + 40°C
Breaking capacity	6kA
Characteristic	B, C, D curve
Number of poles	1P, 1P+N, 2P, 3P, 3P+N and 4P
Rated insulation voltage [Ui]	500V
Rated impulse withstand voltage [Uimp]	4kV
Type of trip	Thermal-magnetic release
Type of terminal	Lug type
Terminal capacity	Cables up to 25mm ²
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Electrical endurance	10,000 operations

Optional accessories ... Auxiliary switch, AX



Composition	Consists of 1 changeover contact	
Rating	AC circuit 6A at 240VAC 3A at 415VAC	DC circuit 2A at 48VDC 1A at 130VDC
Type of terminal	Lug type	
Terminal capacity	Cables up to 2.5mm ²	
Width	9mm	

Optional accessories ... Auxiliary switch, AL

Composition	Consists of 1 changeover contact	
Rating	AC circuit 6A at 230VAC 3A at 415VAC	DC circuit 2A at 48VDC 1A at 130VDC
Type of terminal	Lug type	
Terminal capacity	Cables up to 2.5mm ²	
Width	9mm	



Optional accessories. SHT, OVT /UVT

SHT-b	Rated voltage (Ue)	AC 110~415V
	Operate voltage range	70~110% Ue
U/OVT-b	Rated voltage (Ue)	AC 230V
	Over-voltage tripping range	AC 280V±5%
	Under-voltage tripping range	AC 170V±5%
Electric-mechanical endurance	10,000 operations	
Terminal	MS screw (cable up to 25mm ²)	
Width	18mm	

*SHT or UVT accessory are not tripped when zero voltage

DIN rail mounting

BK63S type, B curve



6kA at 240/415VAC



BK63S 1P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 1P B1A MALAYSIA SIRIM	062609438N	60	
2A	BK63S 1P B2A MALAYSIA SIRIM	062609448N	60	
3A	BK63S 1P B3A MALAYSIA SIRIM	062609458N	60	
4A	BK63S 1P B4A MALAYSIA SIRIM	062609468N	60	
6A	BK63S 1P B6A MALAYSIA SIRIM	062609478N	60	
10A	BK63S 1P B10A MALAYSIA SIRIM	062609488N	60	
13A	BK63S 1P B13A MALAYSIA SIRIM	062609498N	60	
16A	BK63S 1P B16A MALAYSIA SIRIM	062609508N	60	
20A	BK63S 1P B20A MALAYSIA SIRIM	062609518N	60	
25A	BK63S 1P B25A MALAYSIA SIRIM	062609528N	60	
32A	BK63S 1P B32A MALAYSIA SIRIM	062609538N	60	
40A	BK63S 1P B40A MALAYSIA SIRIM	062609548N	60	
50A	BK63S 1P B50A MALAYSIA SIRIM	062609558N	60	
63A	BK63S 1P B63A MALAYSIA SIRIM	062609568N	60	

6kA at 415VAC



BK63S 2P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 2P B1A MALAYSIA SIRIM	062709838N	60	
2A	BK63S 2P B2A MALAYSIA SIRIM	062709848N	60	
3A	BK63S 2P B3A MALAYSIA SIRIM	062709858N	60	
4A	BK63S 2P B4A MALAYSIA SIRIM	062709868N	60	
6A	BK63S 2P B6A MALAYSIA SIRIM	062709878N	60	
10A	BK63S 2P B10A MALAYSIA SIRIM	062709888N	60	
13A	BK63S 2P B13A MALAYSIA SIRIM	062709898N	60	
16A	BK63S 2P B16A MALAYSIA SIRIM	062709908N	60	
20A	BK63S 2P B20A MALAYSIA SIRIM	062709918N	60	
25A	BK63S 2P B25A MALAYSIA SIRIM	062709928N	60	
32A	BK63S 2P B32A MALAYSIA SIRIM	062709938N	60	
40A	BK63S 2P B40A MALAYSIA SIRIM	062709948N	60	
50A	BK63S 2P B50A MALAYSIA SIRIM	062709958N	60	
63A	BK63S 2P B63A MALAYSIA SIRIM	062709968N	60	

BK63S type, B curve



6kA at 415VAC



BK63S 3P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 3P B1A MALAYSIA SIRIM	062808408N	60	
2A	BK63S 3P B2A MALAYSIA SIRIM	062808418N	60	
3A	BK63S 3P B3A MALAYSIA SIRIM	062808428N	60	
4A	BK63S 3P B4A MALAYSIA SIRIM	062808438N	60	
6A	BK63S 3P B6A MALAYSIA SIRIM	062808448N	60	
10A	BK63S 3P B10A MALAYSIA SIRIM	062808458N	60	
13A	BK63S 3P B13A MALAYSIA SIRIM	062808468N	60	
16A	BK63S 3P B16A MALAYSIA SIRIM	062808478N	60	
20A	BK63S 3P B20A MALAYSIA SIRIM	062808488N	60	
25A	BK63S 3P B25A MALAYSIA SIRIM	062808498N	60	
32A	BK63S 3P B32A MALAYSIA SIRIM	062808508N	60	
40A	BK63S 3P B40A MALAYSIA SIRIM	062808518N	60	
50A	BK63S 3P B50A MALAYSIA SIRIM	062808528N	60	
63A	BK63S 3P B63A MALAYSIA SIRIM	062808538N	60	

6kA at 4 15VAC



BK63S 4P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 4P B1A MALAYSIA SIRIM	062908628N	30	
2A	BK63S 4P B2A MALAYSIA SIRIM	062908638N	30	
3A	BK63S 4P B3A MALAYSIA SIRIM	062908648N	30	
4A	BK63S 4P B4A MALAYSIA SIRIM	062908658N	30	
6A	BK63S 4P B6A MALAYSIA SIRIM	062908668N	30	
10A	BK63S 4P B10A MALAYSIA SIRIM	062908678N	30	
13A	BK63S 4P B13A MALAYSIA SIRIM	062908688N	30	
16A	BK63S 4P B16A MALAYSIA SIRIM	062908698N	30	
20A	BK63S 4P B20A MALAYSIA SIRIM	062908708N	30	
25A	BK63S 4P B25A MALAYSIA SIRIM	062908718N	30	
32A	BK63S 4P B32A MALAYSIA SIRIM	062908728N	30	
40A	BK63S 4P B40A MALAYSIA SIRIM	062908738N	30	
50A	BK63S 4P B50A MALAYSIA SIRIM	062908748N	30	
63A	BK63S 4P B63A MALAYSIA SIRIM	062908758N	30	

DIN rail mounting

BK63S type, C curve



6kA at 240/415VAC



BK63S 1P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 1P C1A MALAYSIA SIRIM	062609578N	60	
2A	BK63S 1P C2A MALAYSIA SIRIM	062609588N	60	
3A	BK63S 1P C3A MALAYSIA SIRIM	062609598N	60	
4A	BK63S 1P C4A MALAYSIA SIRIM	062609608N	60	
6A	BK63S 1P C6A MALAYSIA SIRIM	062609618N	60	
10A	BK63S 1P C10A MALAYSIA SIRIM	062609628N	60	
13A	BK63S 1P C13A MALAYSIA SIRIM	062609638N	60	
16A	BK63S 1P C16A MALAYSIA SIRIM	062609648N	60	
20A	BK63S 1P C20A MALAYSIA SIRIM	062609658N	60	
25A	BK63S 1P C25A MALAYSIA SIRIM	062609668N	60	
32A	BK63S 1P C32A MALAYSIA SIRIM	062609678N	60	
40A	BK63S 1P C40A MALAYSIA SIRIM	062609688N	60	
50A	BK63S 1P C50A MALAYSIA SIRIM	062609698N	60	
63A	BK63S 1P C63A MALAYSIA SIRIM	062609708N	60	

6kA at 415VAC



BK63S 2P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 2P C1A MALAYSIA SIRIM	062709978N	60	
2A	BK63S 2P C2A MALAYSIA SIRIM	062709988N	60	
3A	BK63S 2P C3A MALAYSIA SIRIM	062709998N	60	
4A	BK63S 2P C4A MALAYSIA SIRIM	062710008N	60	
6A	BK63S 2P C6A MALAYSIA SIRIM	062710018N	60	
10A	BK63S 2P C10A MALAYSIA SIRIM	062710028N	60	
13A	BK63S 2P C13A MALAYSIA SIRIM	062710038N	60	
16A	BK63S 2P C16A MALAYSIA SIRIM	062710048N	60	
20A	BK63S 2P C20A MALAYSIA SIRIM	062710058N	60	
25A	BK63S 2P C25A MALAYSIA SIRIM	062710068N	60	
32A	BK63S 2P C32A MALAYSIA SIRIM	062710078N	60	
40A	BK63S 2P C40A MALAYSIA SIRIM	062710088N	60	
50A	BK63S 2P C50A MALAYSIA SIRIM	062710098N	60	
63A	BK63S 2P C63A MALAYSIA SIRIM	062710108N	60	

BK63S type, C curve



6kA at 400VAC



BK63S 3P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 3P C1A MALAYSIA SIRIM	062808548N	60	
2A	BK63S 3P C2A MALAYSIA SIRIM	062808558N	60	
3A	BK63S 3P C3A MALAYSIA SIRIM	062808568N	60	
4A	BK63S 3P C4A MALAYSIA SIRIM	062808578N	60	
6A	BK63S 3P C6A MALAYSIA SIRIM	062808588N	60	
10A	BK63S 3P C10A MALAYSIA SIRIM	062808598N	60	
13A	BK63S 3P C13A MALAYSIA SIRIM	062808608N	60	
16A	BK63S 3P C16A MALAYSIA SIRIM	062808618N	60	
20A	BK63S 3P C20A MALAYSIA SIRIM	062808628N	60	
25A	BK63S 3P C25A MALAYSIA SIRIM	062808638N	60	
32A	BK63S 3P C32A MALAYSIA SIRIM	062808648N	60	
40A	BK63S 3P C40A MALAYSIA SIRIM	062808658N	60	
50A	BK63S 3P C50A MALAYSIA SIRIM	062808668N	60	
63A	BK63S 3P C63A MALAYSIA SIRIM	062808678N	60	

6kA at 400VAC



BK63S 4P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 4P C1A MALAYSIA SIRIM	062908488N	30	
2A	BK63S 4P C2A MALAYSIA SIRIM	062908498N	30	
3A	BK63S 4P C3A MALAYSIA SIRIM	062908508N	30	
4A	BK63S 4P C4A MALAYSIA SIRIM	062908518N	30	
6A	BK63S 4P C6A MALAYSIA SIRIM	062908528N	30	
10A	BK63S 4P C10A MALAYSIA SIRIM	062908538N	30	
13A	BK63S 4P C13A MALAYSIA SIRIM	062908548N	30	
16A	BK63S 4P C16A MALAYSIA SIRIM	062908558N	30	
20A	BK63S 4P C20A MALAYSIA SIRIM	062908568N	30	
25A	BK63S 4P C25A MALAYSIA SIRIM	062908578N	30	
32A	BK63S 4P C32A MALAYSIA SIRIM	062908588N	30	
40A	BK63S 4P C40A MALAYSIA SIRIM	062908598N	30	
50A	BK63S 4P C50A MALAYSIA SIRIM	062908608N	30	
63A	BK63S 4P C63A MALAYSIA SIRIM	062908618N	30	

DIN rail mounting

BK63S type, D curve



6kA at 240/415VAC



BK63S 1P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 1P D1A MALAYSIA SIRIM	062609718N	60	
2A	BK63S 1P D2A MALAYSIA SIRIM	062609728N	60	
3A	BK63S 1P D3A MALAYSIA SIRIM	062609738N	60	
4A	BK63S 1P D4A MALAYSIA SIRIM	062609748N	60	
6A	BK63S 1P D6A MALAYSIA SIRIM	062609758N	60	
10A	BK63S 1P D10A MALAYSIA SIRIM	062609768N	60	
13A	BK63S 1P D13A MALAYSIA SIRIM	062609778N	60	
16A	BK63S 1P D16A MALAYSIA SIRIM	062609788N	60	
20A	BK63S 1P D20A MALAYSIA SIRIM	062609798N	60	
25A	BK63S 1P D25A MALAYSIA SIRIM	062609808N	60	
32A	BK63S 1P D32A MALAYSIA SIRIM	062609818N	60	
40A	BK63S 1P D40A MALAYSIA SIRIM	062609828N	60	
50A	BK63S 1P D50A MALAYSIA SIRIM	062609838N	60	
63A	BK63S 1P D63A MALAYSIA SIRIM	062609848N	60	

6kA at 415VAC



BK63S 2P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 2P D1A MALAYSIA SIRIM	062710118N	60	
2A	BK63S 2P D2A MALAYSIA SIRIM	062710128N	60	
3A	BK63S 2P D3A MALAYSIA SIRIM	062710138N	60	
4A	BK63S 2P D4A MALAYSIA SIRIM	062710148N	60	
6A	BK63S 2P D6A MALAYSIA SIRIM	062710158N	60	
10A	BK63S 2P D10A MALAYSIA SIRIM	062710168N	60	
13A	BK63S 2P D13A MALAYSIA SIRIM	062710178N	60	
16A	BK63S 2P D16A MALAYSIA SIRIM	062710188N	60	
20A	BK63S 2P D20A MALAYSIA SIRIM	062710198N	60	
25A	BK63S 2P D25A MALAYSIA SIRIM	062710208N	60	
32A	BK63S 2P D32A MALAYSIA SIRIM	062710218N	60	
40A	BK63S 2P D40A MALAYSIA SIRIM	062710228N	60	
50A	BK63S 2P D50A MALAYSIA SIRIM	062710238N	60	
63A	BK63S 2P D63A MALAYSIA SIRIM	062710248N	60	



BK63S type, D curve

6kA at 415VAC



BK63S 3P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 3P D1A MALAYSIA SIRIM	062808268N	60	
2A	BK63S 3P D2A MALAYSIA SIRIM	062808278N	60	
3A	BK63S 3P D3A MALAYSIA SIRIM	062808288N	60	
4A	BK63S 3P D4A MALAYSIA SIRIM	062808298N	60	
6A	BK63S 3P D6A MALAYSIA SIRIM	062808308N	60	
10A	BK63S 3P D10A MALAYSIA SIRIM	062808318N	60	
13A	BK63S 3P D13A MALAYSIA SIRIM	062808328N	60	
16A	BK63S 3P D16A MALAYSIA SIRIM	062808338N	60	
20A	BK63S 3P D20A MALAYSIA SIRIM	062808348N	60	
25A	BK63S 3P D25A MALAYSIA SIRIM	062808358N	60	
32A	BK63S 3P D32A MALAYSIA SIRIM	062808368N	60	
40A	BK63S 3P D40A MALAYSIA SIRIM	062808378N	60	
50A	BK63S 3P D50A MALAYSIA SIRIM	062808388N	60	
63A	BK63S 3P D63A MALAYSIA SIRIM	062808398N	60	

6kA at 415VAC



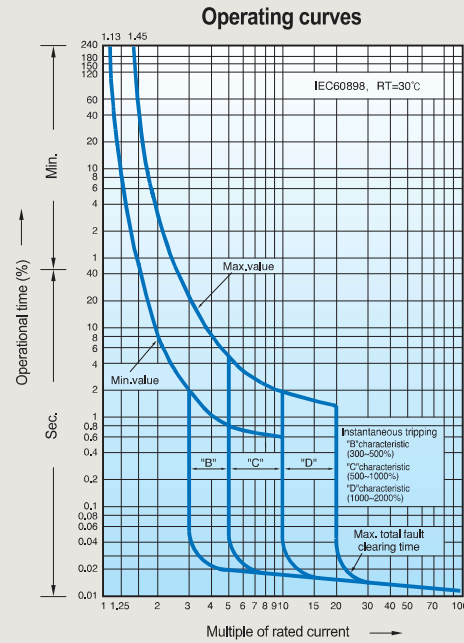
BK63S 4P

In	Model	Order No.	Pack. unit (Pcs.)	Price
1A	BK63S 4P D1A MALAYSIA SIRIM	062908348N	30	
2A	BK63S 4P D2A MALAYSIA SIRIM	062908358N	30	
3A	BK63S 4P D3A MALAYSIA SIRIM	062908368N	30	
4A	BK63S 4P D4A MALAYSIA SIRIM	062908378N	30	
6A	BK63S 4P D6A MALAYSIA SIRIM	062908388N	30	
10A	BK63S 4P D10A MALAYSIA SIRIM	062908398N	30	
13A	BK63S 4P D13A MALAYSIA SIRIM	062908408N	30	
16A	BK63S 4P D16A MALAYSIA SIRIM	062908418N	30	
20A	BK63S 4P D20A MALAYSIA SIRIM	062908428N	30	
25A	BK63S 4P D25A MALAYSIA SIRIM	062908438N	30	
32A	BK63S 4P D32A MALAYSIA SIRIM	062908448N	30	
40A	BK63S 4P D40A MALAYSIA SIRIM	062908458N	30	
50A	BK63S 4P D50A MALAYSIA SIRIM	062908468N	30	
63A	BK63S 4P D63A MALAYSIA SIRIM	062908478N	30	

Characteristics curves & Overall dimensions

Characteristics curves & temperature compensation

BK63S

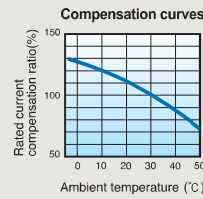


BK63S

(Temperature compensation table)(IEC60 898-1)

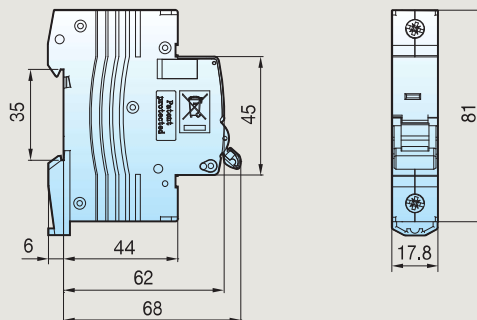
In(A)	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
1	1.05	1.02	1	0.98	0.95	0.93	0.9	0.88	0.85
2	2.08	2.04	2	1.96	1.92	1.88	1.84	1.8	1.74
3	3.18	3.09	3	2.91	2.82	2.7	2.61	2.49	2.37
4	4.24	4.12	4	3.88	3.75	3.64	3.52	3.36	3.24
6	6.24	6.12	6	5.88	5.76	5.64	5.52	5.4	5.3
10	10.6	10.3	10	9.7	9.3	9.0	8.6	8.2	7.8
13	13.6	13.3	13	12.7	12.3	12.0	11.6	11.2	10.8
16	16.8	16.5	16	15.5	15.2	14.7	14.2	13.8	13.3
20	21.0	20.6	20	19.4	19.0	18.4	17.8	17.4	16.8
25	26.2	25.7	25	24.2	23.7	23.0	22.2	21.5	20.7
32	33.5	32.9	32	31.4	30.4	29.8	28.4	28.2	27.5
40	42.0	41.2	40	38.8	38.0	36.8	35.6	34.4	33.2
50	52.5	51.5	50	48.5	47.4	45.5	44.0	42.5	40.5
63	66.2	64.9	63	61.0	58.0	56.7	54.2	51.7	49.2

I1: 11.3% In, I2: 145% In according to IEC60 898-1



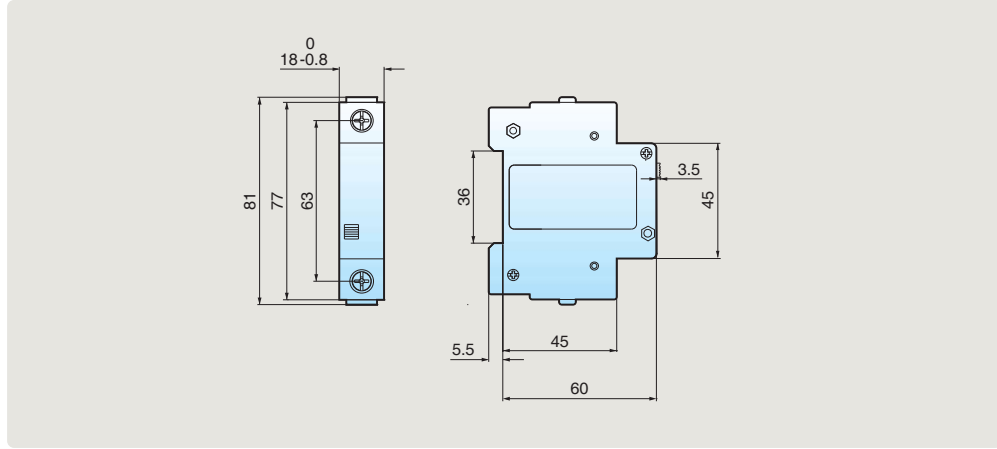
Overall dimensions

BK63S

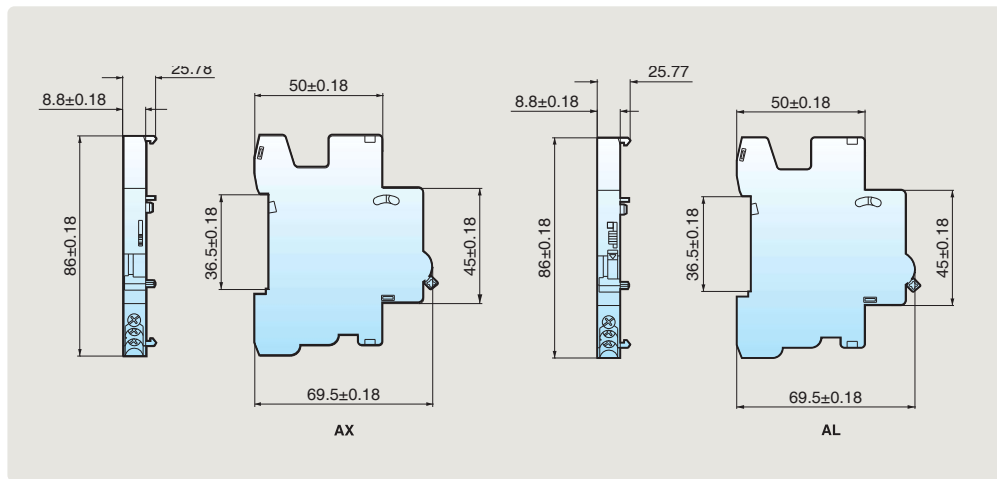


Overall dimensions

SHT
UVT/OVT



AX/AL



RoHS compliance

What is RoHS?

The RoHS (Restriction of Hazardous Substances) is an EU Directive that specifically identifies six key materials so that manufacturers are held responsible for ensuring that their products contain controlled concentrations of the six substances restricted by the Directive.

The Six Hazardous Substances: Below 1,000ppm of Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr+6), Polybrominated Biphenyls (PBB) and Polybrominated Biphenyl Ethers (PBDE), and below 100ppm of Cadmium (Cd).

- ▶ RoHS : Directive on the Restriction of Hazardous Substances in the Electronic Equipment (Effective on February 13, 2003)

LSIS Environmental Policy and **RoHS Compliance**

RoHS
CEO's Message
Environmentally-friendly Management and Policy
RoHS Compliance Declaration

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The Six Hazardous Substances: Below 1,000ppm of Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr⁺⁶), Polybrominated Biphenyls (PBB) and Polybrominated Biphenyl Ethers (PBDE), and below 100ppm of Cadmium (Cd)

Refer to Related Regulations Laws for exceptions. LSIS circuit breakers are excluded.

▶ RoHS: Directive on the Restriction of Hazardous Substances in the Electrical and Electronic Equipment (Effective on February 13, 2003)

Application

Products

Products manufactured by LSIS do not directly apply to the RoHS Directive. However, small inverters imbedded in sports equipment and small breakers in large home appliances can be indirectly applied to the Directive.

LSIS continues to comply with the RoHS directive in order to establish environmentally friendly management policies and gain global competitiveness for our products.

According to the regulation, eight of the 10 WEEE products excluding 'medical equipment' and 'control systems' must be RoHS compliant.