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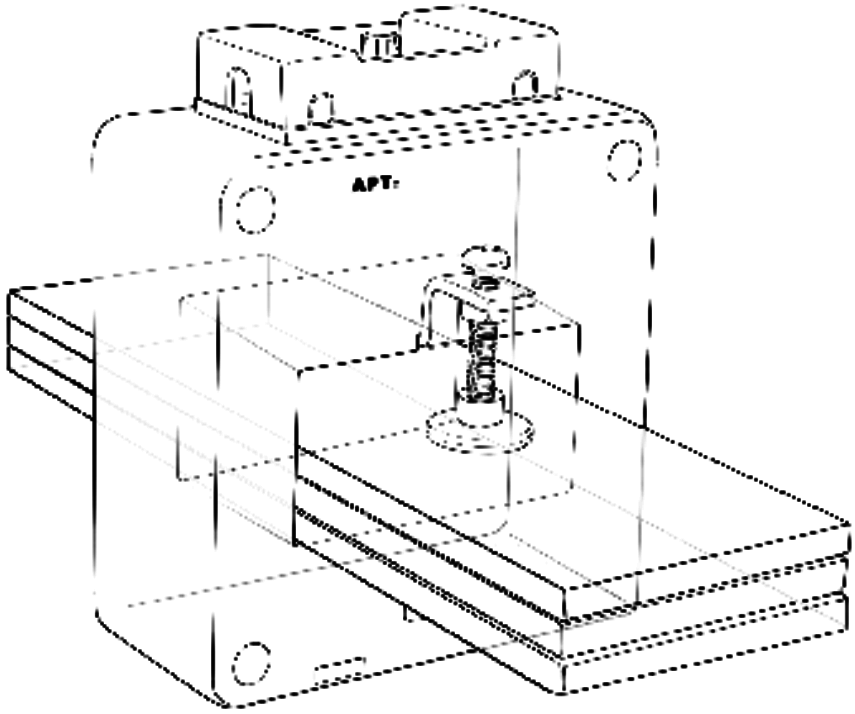

Current Transformer

ALH-0.66 Series

www.si-apt.com

Current Transformer

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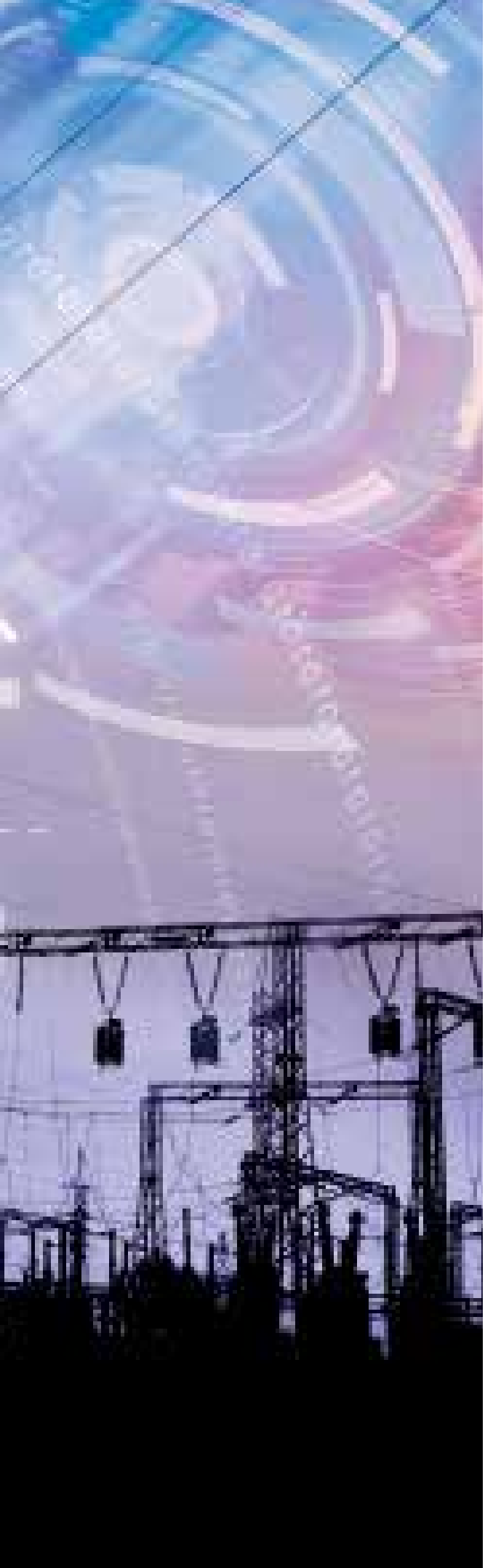


APT

Low-voltage (AC) current Transformer

ALH-0.66 Series

Measurement class —— I / II / III / M / Φ

Protection class —— II - P / III - P

Openable class —— HK / NK / SK

Company Profile

APT has been established in 1993. Today it is now a Chinese leading manufacturer of low-voltage components and has been specialized in the manufacturing of low voltage products such as pushbuttons, indicators, cam switches and general-purpose relays. In August 2008, Siemens Electrical Apparatus Ltd. Suzhou (hereinafter referred to as “Siemens”) made the wholly-owned acquisition of APT, putting the APT brand and related products under the operation of Siemens. With unified quality control and R&D resources of Siemens, APT focuses on manufacturing pushbuttons, indicators and other important low-voltage products such as tower lights, control cabinets, combined lights, current transformers and limit switches etc.

Through over 20 years of promotion and application, the APT products have been widely serving dozens of industrial fields in China including power, energy, rail transit, elevator, logistics, machine tool, etc. They have been successively selected and applied in Qinshan Nuclear Power Plant, the Three Gorges Project, ShenzhouVSpacecraft, Qinghai-Tibet Railway locomotives, “Harmony” Electric Multiple Unit, “Fuxing” Electric Multiple Unit, international airports and urban metros and have become the preferred brand for national key projects. At the same time, Siemens gives full play to its international operation experience to continuously enhance the management and business development of APT and better serve the Chinese market through advanced technology and improved product line.

APT
A SIEMENS COMPANY

NOTE

◎ Order code description (measurement class)

No.	ALH - 0.66 □ □ □ □ □ 1 2 3 4 5 6 7
1	Registration approval order code
2	Rated voltage 0.66kV, i.e. AC660V+
3	Specification & order code: see the specifications and dimensions table
4	Rated current ratio: the values before and after "/" represent currents on the primary and secondary sides, in the unit of A
5	Accuracy: the number stands for Accuracy, R for rating
6	Rated capacity: in the unit of VA
7	Number of core-through turns: for primary current, in the unit of T

Order code example: ALH-0.66 30Ⅰ 100/5 0.5R 2.5VA 5T
Order code explanation: spec. & order code of 30 I type, current on primary side of 100A, current on secondary side of 5A, Accuracy of 0.5, capacity of 2.5, number of core-through turns of 5

◎ Technical parameters

1. Compliance with GB20840
2. Primary current 5A~8000A Secondary current 5A / 1A
3. Rated voltage AC660V
4. Rated frequency 50 / 60Hz
5. Working temperature -25℃ ~+40℃ Max temperature resistance 120℃ Storage temperature -40℃ ~+70℃
6. Altitude ≤ 1000m (normal application: in the special application with altitude over 1000m, corresponding transformer shall be selected as per the constraints in GB20840)
7. Power frequency withstand voltage 3000V 50Hz · 1min (between the enclosure and the secondary coil)
8. Insulation class E
9. Accuracy (transformer for measurement) 0.2S、0.5S、0.2、0.5、1

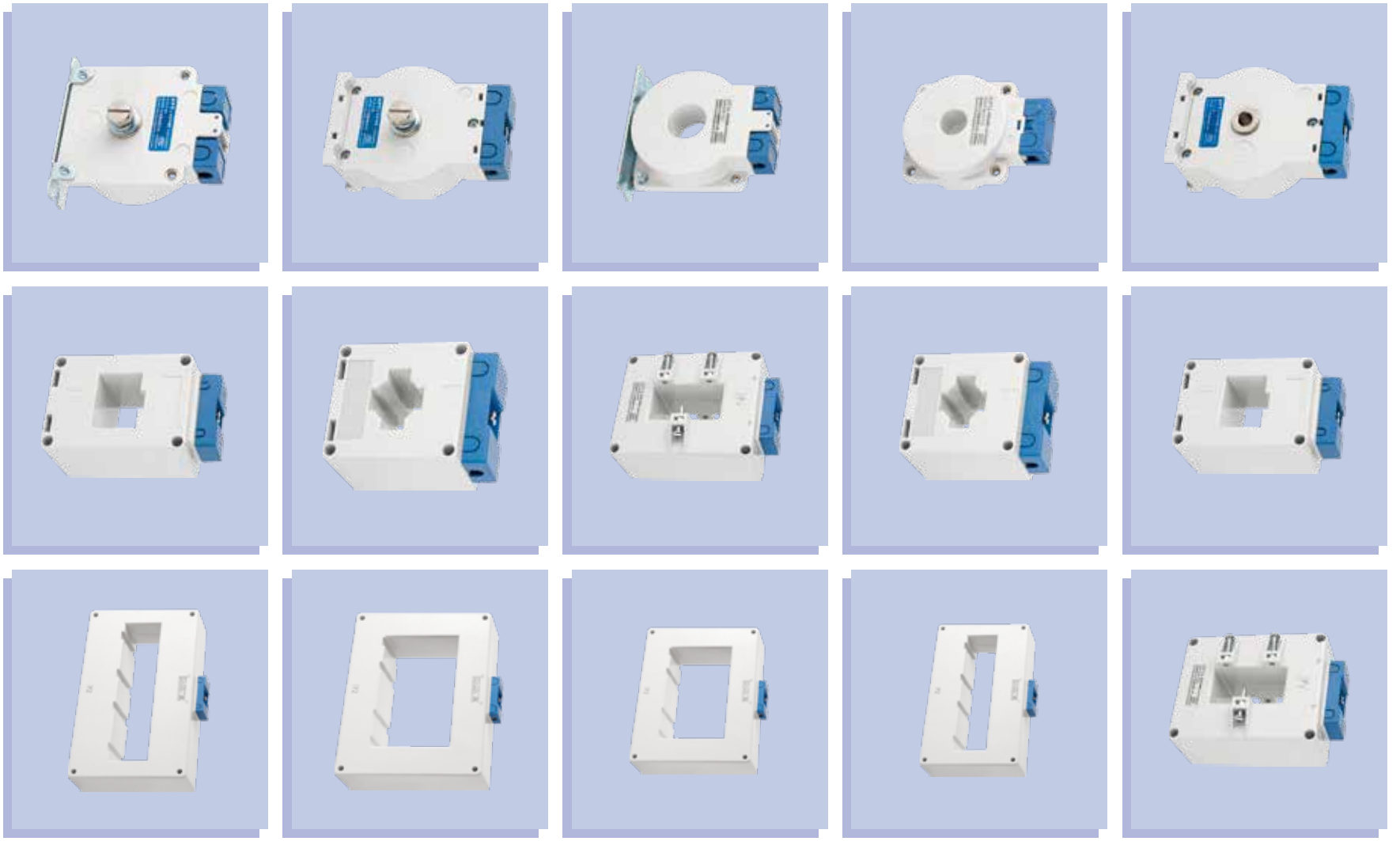
◎ Ordering notice

1.The order code, specification, current ratio, Accuracy and secondary rated capacity of the current transformer shall be specified;
2.Specify the Mounting methods. (If not specified, the company can provide as per its regulations.)

◎ Precautions for Mounting

1.The secondary winding of current transformer cannot be open circuit . Otherwise, the high voltage may endanger the equipment and personal safety.
2.One end of the secondary side of current transformer shall be reliably grounding to avoid insulation breakdown between the primary and the secondary sides.
3.The current transformer shall be used strictly according to the rated power, the rated transformation ratio and the Accuracy on the nameplate.
4.The primary winding of current transformer and the measured circuit shall be in series, the secondary winding and the electrical measuring instrument shall be in series, and the polarity of current transformer shall be noted during wiring.
5.The connecting lead for secondary loop shall adopt the insulated wire with small resistance, without any connector in the middle.
6.The impedance of instrument connected in series with the secondary winding loop shall not exceed that specified in the technical standards.
7.The same current transformer shall not be used for relay protection and electricity measurement.

I&II&III&M&Φ



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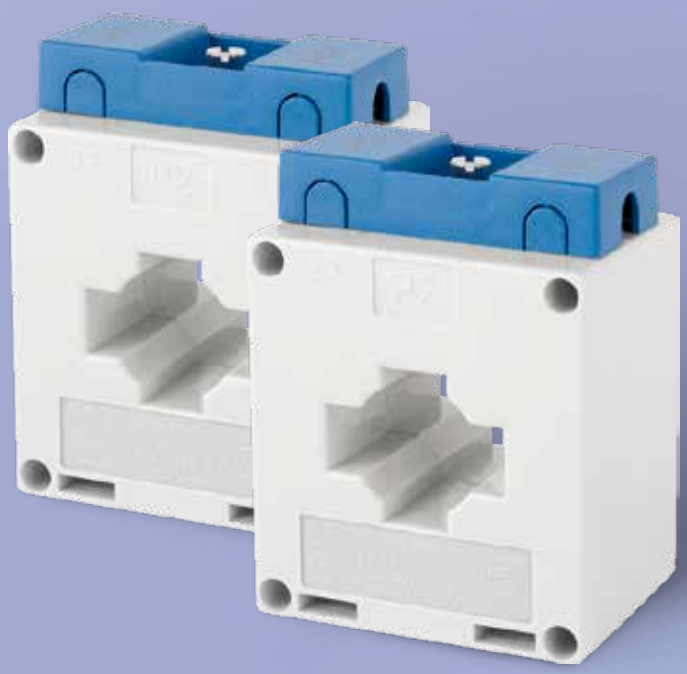


ALH-0.66 I

Series current Transformer

Product feature

- The enclosure of ALH-0.66 I type current transformer is made of high-strength PC plastic in a fully enclosed structure. It is compatible with square and round holes for cable or bus, normally used for control and measurement.
- P1 and P2 refer to the primary terminal; S1 and S2 refer to the secondary polarity end.
- P1, S1 and P2, S2 are namesakes (subtractive polarity).

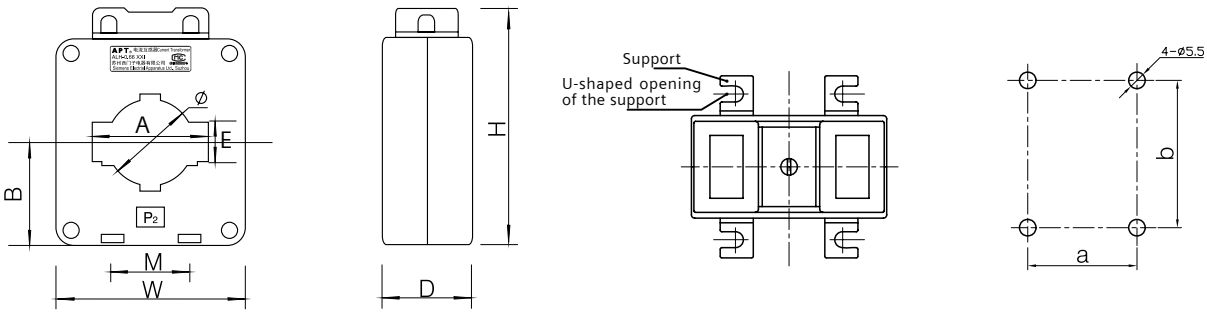
◎ Specifications and dimensions

Unit: mm

Dimensions / Spec. & order code	Dimension				Perforation dimension			Mounting dimension	Mounting method (page 38)						
									A		B		C	D	E
	W	H	D	B	A	E	ϕ	M	a	b	a	b	/	/	/
30 I	60	79	34	33.5	30.5	11	23	31.6	32	50	32.4	48	/		/
30 I-I	60	79	45	33.5	31	11	22	32	32	59	33	58	/		/
40 I	75	97	44	41	42	11	30	44	45	59	45	58		/	/
60 I	101.5	124.5	44.4	55	61	21	46	62	/	/	63	59		/	/
80 I	120	140.5	45	62.5	81.5	10.8	52	60	/	/	61	59		/	
100 I	146	161.5	45	73	102	10.5	62	80	/	/	81	59		/	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- " / " refers to the Mounting method not available



ALH-0.66 I

◎ Technical parameters comparison table

Spec. & order code	30 I					30 I-I	
Busbar spec. (mm) Max	30x10 1 piece					30x10 1 piece	
Accuracy	0.2S	0.5S	0.2	0.5	1	0.2S	0.5S
Rated current ratio	Rated capacity (VA)/turns (T)						
15 / 5				2.5/10			
20 / 5				5/10			
25 / 5				5/8	2.5/4		
30 / 5				2.5/5	2.5/5		
40 / 5				5/5	2.5/3 5/5		
50 / 5	2.5/8			5/4	2.5/2		
60 / 5		5/5		2.5/3 5/5	2.5/2		
75 / 5		5/4		5/4	2.5/2		
100 / 5	2.5/4	2.5/2		5/2	2.5		
150 / 5			2.5	2.5	2.5		
200 / 5	2.5/2	2.5	2.5	5	5		
250 / 5		5	2.5	5	10		
300 / 5		5	2.5	5	10		
400 / 5	2.5	5	2.5	5		2.5	5
450 / 5							
500 / 5							
600 / 5							
750 / 5							
5 / 1							
10 / 1							
15 / 1					0.1/2		
20 / 1							
25 / 1							
30 / 1					0.1		
40 / 1					0.1		
50 / 1				0.1	0.1		
60 / 1				0.2			
75 / 1				0.2			
80 / 1				0.2			
100 / 1				0.2			
150 / 1				2.5	2.5		
200 / 1				5	5		
250 / 1		2.5		5			
300 / 1		2.5		5	10		
400 / 1		2.2	2.5	10			
500 / 1							
600 / 1							
750 / 1							

Spec. & order code	30 I-I			40 I				
Busbar spec. (mm) Max	30x10 1 piece			40x10 1 piece				
Accuracy	0.2	0.5	1	0.2S	0.5S	0.2	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)							
15 / 5								
20 / 5			2.5/4					
25 / 5		2.5/6	5/4				2.5/6	2.5/3
30 / 5		2.5/5	5/5				2.5/5	2.5/3
40 / 5		2.5/3 5/5	2.5/2				5/5	5/5
50 / 5	2.5/6	2.5/3 5/4	5/2				2.5/3	2.5/2
60 / 5	2.5/5	2.5/2 5/5	10/5				2.5/3 5/5	5/5
75 / 5	2.5/4	5/4	2.5				5/4	2.5
100 / 5	2.5/3	5/2	5				5/2	2.5
150 / 5	2.5	2.5	5		2.5	2.5/2	2.5	2.5
200 / 5	2.5	5	10		2.5		5	5
250 / 5		5	10		2.5		5	
300 / 5	2.5	5	10		5	2.5	5	
400 / 5	5	5	10	2.5	5	2.5	5	
450 / 5				2.5		2.5	5	
500 / 5				2.5	10	5	10	
600 / 5				5	10	10	10	
750 / 5				5	10	10	10	
5 / 1			0.1/4					
10 / 1			0.1/2					
15 / 1		0.1/4						
20 / 1			0.1 2.5/8					
25 / 1			0.1					
30 / 1		0.1/2						0.2
40 / 1		0.1	0.4 2.5/5				0.1	
50 / 1		0.1	0.4				0.1	
60 / 1		0.2	0.4				0.2	
75 / 1		0.2	1				0.2	
80 / 1		0.2						
100 / 1		0.2	2.5				0.2	0.4
150 / 1		2.5	5				2.5	5
200 / 1		5	10	2.5			5	
250 / 1		5	10				5	
300 / 1		5	10				5	
400 / 1		10			10		10	
500 / 1							10	
600 / 1						5	10	
750 / 1						10	10	

◎ Technical parameters comparison table

Spec. & order code	60 I					80 I	
Busbar spec. (mm) Max	60x10 1 piece 60x6 2 pieces					80x10 1 piece 60x 6 2 pieces	
Accuracy	0.2S	0.5S	0.2	0.5	1	0.2S	0.5S
Rated current ratio	Rated capacity (VA)/turns (T)						
40 / 5					5/5		
50 / 5			2.5/6	2.5/3	2.5/2		
60 / 5			2.5/5	5/5	10/5		
75 / 5			2.5/4	5/4	10/4		
100 / 5			2.5/3	5/3	2.5		
150 / 5			2.5/2	2.5	2.5		
200 / 5			5/2	5	5		
250 / 5			2.5/2	5	5		
300 / 5			2.5/2	5	5		
400 / 5	2.5	2.5	5	5	5		2.5
450 / 5	2.5	2.5	5	5	10		5
500 / 5	2.5	5	5	10	10	2.5	10
600 / 5	5	5	5	10	10	5	10
750 / 5	5	10	5	10		5	
800 / 5	5	10	10	10		5	10
900 / 5	5			10			
1000 / 5	15	15	15	15		10	15
1200 / 5			20			10	20
1250 / 5			20				
1500 / 5		20	20			20	
2000 / 5			40			40	
2500 / 5							
3000 / 5							
75 / 1				0.2			
80 / 1							
100 / 1				0.2			
150 / 1				2.5			
200 / 1				5			
250 / 1				5			
300 / 1				5			
400 / 1				10			
500 / 1				10			10
600 / 1			5	10			
750 / 1				10			
800 / 1				10			
1000 / 1			10				
1200 / 1			10				
1250 / 1			10				
1500 / 1			20				
2000 / 1			20				
2500 / 1							
3000 / 1							

Spec. & order code	80 I		100 I				
Busbar spec. (mm) Max	80x10 1 piece 60x6 2 pieces		100x10 1 piece 80x10 2 pieces				
Accuracy	0.2	0.5	0.2S	0.5S	0.2	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)						
40 / 5							
50 / 5							
60 / 5							
75 / 5							
100 / 5		5/3					
150 / 5		5/2					
200 / 5		5/2					
250 / 5		5					2.5
300 / 5		5					2.5
400 / 5	5	5				5	
450 / 5	5	5				5	
500 / 5	5	10				10	
600 / 5	10	10	5	5	5	10	
750 / 5	10	10	5	5	5	10	
800 / 5	10	10	5	5	5	10	
900 / 5		10	5	5	5		
1000 / 5	15	20	10	10	15	15	
1200 / 5	20	20	10	20	20		
1250 / 5	20		10		20		
1500 / 5	20	20	20		20		
2000 / 5	40		40		40		
2500 / 5	40		40		40		
3000 / 5					40		
75 / 1							
80 / 1							
100 / 1		0.2					
150 / 1		2.5				1	
200 / 1		5				2.5	
250 / 1		5				5	
300 / 1		5				5	
400 / 1		10				10	
500 / 1		10				10	
600 / 1		10				10	
750 / 1		10				10	
800 / 1	10					10	
1000 / 1	10					10	
1200 / 1	20				20		
1250 / 1	20						
1500 / 1	20				20		
2000 / 1	20				20		
2500 / 1	20				20		
3000 / 1					20		

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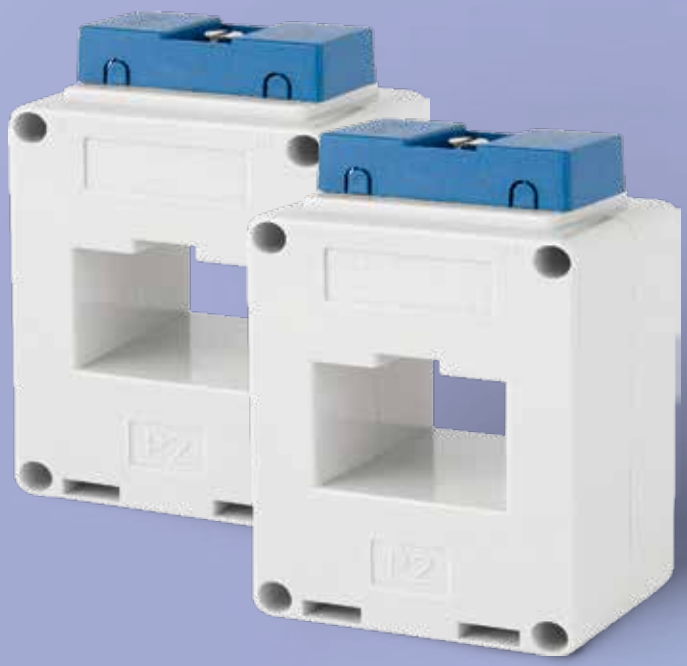


ALH-0.66 II

Series current Transformer

Product feature

- The enclosure of ALH-0.66 II type current transformer is made of high-strength PC in fully enclosed structure. It has rectangle perforation with one core-through turn and mainly used for bus (also available for cable). It can penetrate 6 buses in maximum. It is normally used for control and measurement.
- P1 and P2 refer to the primary polarity end; S1 and S2 refer to the secondary polarity end.
- P1, S1 and P2, S2 are dotted terminals (subtractive polarity).

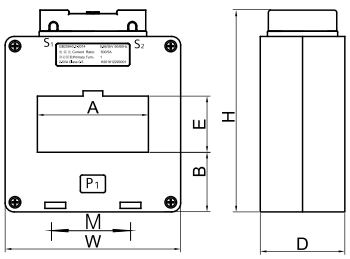
◎ Specifications and dimensions

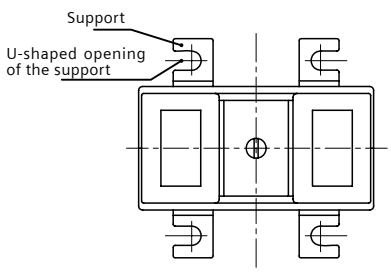
Unit: mm

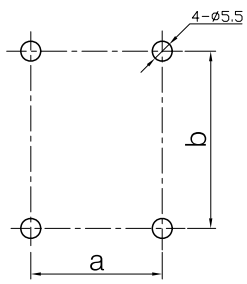
Dimensions / Spec. & order code	Dimension				Perforation dimension		Mounting dimension	Mounting method (page 38)				
	W	H	D	B	A	E	M	B		C	D	E
								a	b	a	b	/
30 II	60	101	44	30	34	26	29	30	58	/		
40 II	75	105	44	30	42	32	44	45	58	/		
50 II	87	113	45	33	52	32	30	31	59	/		
60 II	98	116	46	34	62	32	42	/	/		/	
80 II	120.5	121	45	35	82	32	60	/	/		/	
100 II	140	129	49	39	102	32	80	/	/		/	
130 II	175	133	46	41	136	36	30 40 33	/	/		/	
180 II	224	133	48	40.5	182	36.5	45 45 45	/	/		/	
200 II	244	133	50	41.5	204	35	50 50 50	/	/		/	
60x50 II	105	146	45	39.4	62	52	42	/	/		/	
80x50 II	120	142	47	37	82	52	60	/	/		/	
100x50 II	148	155	49	44	102	52	80	/	/		/	
120x50 II	172	158	49	44	122	53	80	/	/		/	
220x50 II	280	189	60	59.5	225	55	65 55 65	/	/		/	
170x100 II	255	219	60	50	170	106.5	40 75 40	/	/		/	
100x70 II	148	176	49	44	102	73	80	/	/		/	
100x80 II	148	186	49	44	102	82	80	/	/		/	
100x85 II	148	191	49	44	102	88	80	/	/		/	
120x65 II	172	174	49	44	122	68	80	/	/		/	
120x85 II	172	194	49	44	122	88	80	/	/		/	
130x50 II	182	158	49	44	132	53	80	/	/		/	
130x65 II	175	165	46	41	136	68	33 40 33	/	/		/	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- "/" refers to the Mounting method not available
- represents modified enclosure







ALH-0.66 II

◎ Technical parameters comparison table

Spec. & order code	30 II					40 II				
Busbar spec. (mm) Max	30x10 1-2 pieces					40x10 1-2 pieces				
Accuracy	0.2S	0.5S	0.2	0.5	1	0.2S	0.5S	0.2	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)									
25 / 5				2.5/8						
60 / 5										
75 / 5										
80 / 5										
100 / 5				2.5/2	2.5					2.5
150 / 5				5/2	2.5				2.5	
200 / 5		2.5		5				2.5/2 5/3	5	
250 / 5		2.5	2.5	5			2.5		5	10
300 / 5		2.5	2.5	5			2.5	2.5	5	10
400 / 5	2.5	5	2.5	5		2.5	5	2.5	5	10
500 / 5	2.5	5	5	10		2.5	5	5	10	10
600 / 5	5	10	10	10		5	10	5	10	10
750 / 5				10		5	10	10	10	10
800 / 5						5	10	10	10	10
900 / 5								15	10	
1000 / 5						10	15	15	10	
1200 / 5						15		20	10	
1250 / 5										
1500 / 5										
2000 / 5										
40 / 1					0.1					
50 / 1										
60 / 1									0.2	
75 / 1				0.2					0.2	
80 / 1				0.2						
100 / 1				0.2					0.2	0.2
150 / 1				2.5					2.5	
200 / 1				5		2.5			5	10
250 / 1				5					5	10
300 / 1				5					5	15
400 / 1				10		2.5	10		10	15
500 / 1				10				2.5	10	
600 / 1				10		5	10	5	10	
750 / 1				10				5	10	
800 / 1						5		5	10	
900 / 1										
1000 / 1									10	
1200 / 1										
1250 / 1										
1500 / 1										
2000 / 1										

Spec. & order code	50 II				60 II			
Busbar spec. (mm) Max	50x10 1-2 pieces				60x10 1-2 pieces			
Accuracy	0.2S	0.5S	0.2	0.5	0.2S	0.5S	0.2	0.5
Rated current ratio	Rated capacity (VA)/turns (T)							
25 / 5								
60 / 5								
75 / 5								
80 / 5								
100 / 5								
150 / 5							2.5/2	
200 / 5							2.5/2	
250 / 5		2.5						5
300 / 5	2.5	2.5	2.5	5		2.5	2.5	5
400 / 5	2.5	2.5	2.5	5	2.5	2.5	5	5
500 / 5	5	5	5	10	2.5	5	5	10
600 / 5	5	10	10	10	5	5	10	10
750 / 5	5		10	10	5		10	10
800 / 5	10	10	10	10	5	5	10	10
900 / 5				10	2.5			10
1000 / 5	15		15	15	15	15	15	15
1200 / 5	20		20	20	20		20	20
1250 / 5	20		20		20		20	
1500 / 5	20		20		20	20	20	20
2000 / 5					40		40	
40 / 1								
50 / 1								
60 / 1				0.2				
75 / 1				0.2				0.2
80 / 1								
100 / 1				0.2				0.2
150 / 1				2.5				2.5
200 / 1				5				5
250 / 1				5				5
300 / 1				5				5
400 / 1				10				10
500 / 1		10		10				10
600 / 1		10	5	10			10	10
750 / 1				10				10
800 / 1				10		10	10	10
900 / 1								
1000 / 1			10	10			20	10
1200 / 1			15	10			20	
1250 / 1			20				20	
1500 / 1			20				20	
2000 / 1							20	

◎ Technical parameters comparison table

Spec. & order code	60x50 II				80 II				80x50 II	
Busbar spec. (mm) Max	60x10 2-3 pieces				80x10 1-2 pieces				80x10 2-3 pieces	
Accuracy	0.2S	0.5S	0.2	0.5	0.2S	0.5S	0.2	0.5	0.2S	0.5S
Rated current ratio	Rated capacity (VA)/turns (T)									
300 / 5				5				5		
400 / 5				5		2.5	2.5	5		
500 / 5				10	2.5	5	5	10		
600 / 5			10		2.5	5	5	10		
750 / 5			10			10	10	10		
800 / 5	5	10	10		5	10	10	10	5	
900 / 5	5		10					10		
1000 / 5	15	10	15		10	10	15		10	
1200 / 5	15		20		20	20	20		20	
1250 / 5	20		20		20	20	20		20	
1500 / 5	20		20		20	20	20		20	
2000 / 5	20		40		40	40	40		20	40
2500 / 5			40		40	40	40		40	40
3000 / 5										40
3500 / 5										
4000 / 5										
100 / 1								0.2		
150 / 1				5/2				1		
200 / 1								2.5		
250 / 1								2.5		
300 / 1				5				5		
400 / 1				10				10		
500 / 1				10				10		
600 / 1				10				10		
750 / 1				10				10		
800 / 1				10				10		
900 / 1										
1000 / 1				10			10	10		
1200 / 1			20				20			
1250 / 1			20				20			
1500 / 1			20				20			
2000 / 1			20				20		10	
2500 / 1			20				20			20
3000 / 1										20
3500 / 1										
4000 / 1										

Spec. & order code	80x50 II		100 II				100x50 II			
Busbar spec. (mm) Max	80x10 2-3 pieces		100x10 2 pieces				100x10 2-3 pieces			
Accuracy	0.2	0.5	0.2S	0.5S	0.2	0.5	0.2S	0.5S	0.2	0.5
Rated current ratio	Rated capacity (VA)/turns (T)									
300 / 5						2.5				5
400 / 5		5				5				5
500 / 5		10			5	10				10
600 / 5	10	10			5	10				10
750 / 5		10			5	10				10
800 / 5	10	10	5		5	10		5		10
900 / 5			5		5					
1000 / 5	15		15	10	15	15	5	15	15	
1200 / 5	20		10		20		10	20	20	
1250 / 5	20		10		20		10	20	20	
1500 / 5	20		20	20	20		20	20	20	
2000 / 5	40		40	20	40	40	20	20	40	
2500 / 5	40		40	40	40	40	40	20	40	
3000 / 5	40		40		40		40	40	40	
3500 / 5							40		40	
4000 / 5							40		40	
100 / 1										
150 / 1						1				
200 / 1		0.4				2.5				
250 / 1		0.4				2.5				
300 / 1		5				5				
400 / 1		10				10				10
500 / 1		10				10				10
600 / 1		10				10				10
750 / 1		10			10	10				10
800 / 1		10				10				10
900 / 1		10								
1000 / 1		10		10		10				10
1200 / 1	20				20				20	
1250 / 1	20			10	20				20	
1500 / 1	20				20				20	
2000 / 1	20				20		20		20	
2500 / 1	20				20		20		20	
3000 / 1	20				20		20		20	
3500 / 1										
4000 / 1									15	

◎ Technical parameters comparison table

Spec. & order code	100x70 II	100x80 II	100x85 II	120x50 II			
Busbar spec. (mm) Max	100x10 2-4 pieces			120x10 1-3 pieces			
Accuracy	0.2	0.2	0.2	0.2S	0.5S	0.2	0.5
Rated current ratio	Rated capacity (VA)/turns (T)						
750 / 5							15
800 / 5							15
900 / 5							
1000 / 5				10	15	15	
1200 / 5				10	20	20	
1250 / 5				10	20	20	
1500 / 5	20	20		20	20	20	
2000 / 5	20	40		20	40	40	
2500 / 5	40	40		40	40	40	
3000 / 5	40	40	40	40		40	
3500 / 5	40	40	40	40		40	
4000 / 5	40	40	40	40		40	
5000 / 5				40		40	
250 / 1							1
300 / 1							2.5
400 / 1							5
500 / 1							10
600 / 1							10
750 / 1							10
800 / 1							10
900 / 1							
1000 / 1		20		10		10	
1200 / 1		20		10		20	
1250 / 1							
1500 / 1		20		10		20	
2000 / 1		20		20		20	
2500 / 1		20		20		20	
3000 / 1		20		20		20	
3500 / 1							
4000 / 1				20		20	
5000 / 1						15	

Spec. & order code	120x65 II	120x85 II	130x50 II			130x65 II
Busbar spec. (mm) Max	120x10 1-4 pieces		130x10 1-3 pieces			130x10 1-4 pieces
Accuracy	0.2	0.2	0.2S	0.2	0.5	0.2
Rated current ratio	Rated capacity (VA)/turns (T)					
750 / 5						
800 / 5						
900 / 5						
1000 / 5						
1200 / 5					10	
1250 / 5						
1500 / 5						
2000 / 5						
2500 / 5						
3000 / 5	40			40		
3500 / 5	40	40		40		
4000 / 5	40	40		40		
5000 / 5	40	40		40		40
250 / 1						
300 / 1						
400 / 1						
500 / 1						
600 / 1						
750 / 1						
800 / 1						
900 / 1						
1000 / 1						
1200 / 1						
1250 / 1						
1500 / 1						
2000 / 1						
2500 / 1						
3000 / 1				20		
3500 / 1						
4000 / 1	20		20	20		
5000 / 1		20		20		

◎ Technical parameters comparison table

Spec. & order code	130 II				180 II	200 II
Busbar spec. (mm) Max	130x10 1-2 pieces 60x10 2-4 pieces				180x10 1-2 pieces	200x10 1-2 pieces 100x10 2-4 pieces
Accuracy	0.2S	0.5S	0.2	0.5	0.2	0.2S
Rated current ratio	Rated capacity (VA)/turns (T)					
500 / 5				10		
600 / 5				10		
750 / 5				10		
800 / 5				10		
900 / 5						
1000 / 5		15	15		15	
1200 / 5	10	20	20		15	
1250 / 5	10	20	20		15	
1500 / 5	20	20	20		20	
2000 / 5	20	40	40		40	20
2500 / 5	20	40	40		40	20
3000 / 5	40	40	40		40	20
3500 / 5	40		40		40	20
4000 / 5	40		40		40	20
5000 / 5					40	20
6000 / 5						
7500(8000) / 5						
1000 / 1			10			
1200 / 1			20		20	
1250 / 1						
1500 / 1			20		20	
2000 / 1			20		20	
2500 / 1			20		20	
3000 / 1			20		20	
3500 / 1						
4000 / 1			20		20	
5000 / 1					20	
6000 / 1						
7500(8000) / 1						

Spec. & order code	200 II		220x50 II			170x100 II
Busbar spec. (mm) Max	200x10 1-2 pieces 100x10 2-4 pieces		200x10 2-3 pieces			160x10 1-3 pieces 80x10 3-6 pieces
Accuracy	0.2	0.5	0.5S	0.2	0.5	0.2
Rated current ratio	Rated capacity (VA)/turns (T)					
500 / 5						
600 / 5						
750 / 5						
800 / 5						
900 / 5						
1000 / 5					15	
1200 / 5						
1250 / 5						
1500 / 5	20			20		20
2000 / 5	40			40		40
2500 / 5	40			40		40
3000 / 5	40	40		40		40
3500 / 5	40			40		40
4000 / 5	40			40		40
5000 / 5	40			40		40
6000 / 5				30		30
7500(8000) / 5						30
1000 / 1						
1200 / 1						
1250 / 1						
1500 / 1	20			20		20
2000 / 1	20			20		20
2500 / 1	20			20		20
3000 / 1	20			20		20
3500 / 1						
4000 / 1	20		20	20		20
5000 / 1	20			20		20
6000 / 1				15		20
7500(8000) / 1						20

APT

ALH-0.66 III

Series current Transformer

Product feature

- ALH-0.66 III type current transformer is the improved product on the basis of I and II types. It is mainly used for vertical arrangement of three-phase bus, so as to avoid the inconvenience of secondary outlet obstructed by the adjacent bus or the transformer. It is installed mainly by fixing the bus, which is very convenient. Meanwhile, it enlarges the capacity of the transformer and greatly improves its accuracy. Therefore, it meets the higher requirements of large impedance load and electricity measurement.
- P1 and P2 refer to the primary polarity end; S1 and S2 refer to the secondary polarity end. P1, S1 and P2, S2 are dotted terminals (subtractive polarity).

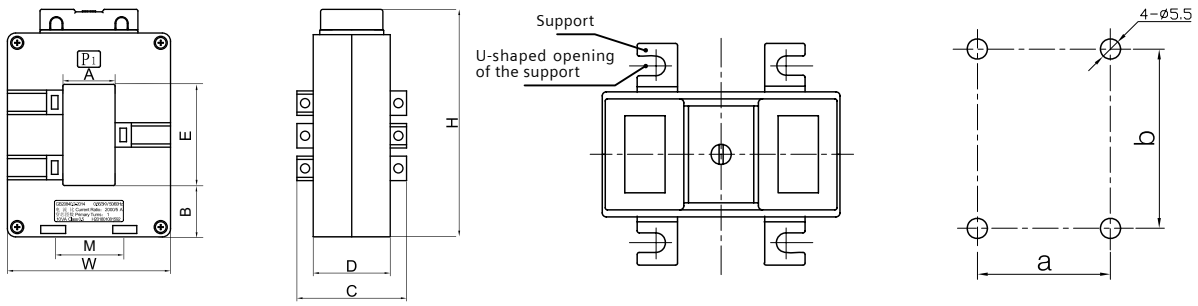
◎ Specifications and dimensions

Unit: mm

Dimensions / Spec. & order code	Dimension					Perforation dimension			Mounting dimension	Mounting method (page 38)		
	W	H	C	D	B	A	E	Φ	M	A		J
										a	b	
20 III	72	75.5	58	36	20	11	21	21	41	42	50	
30 III	72	99	72	50	26	12	32	26	41	42	64	
50 III	75	114	76	56	24	16	52	/	/	/	/	
60 III	100	139	75	55	21	32	62	/	/	/	/	
80 III	100	164	75	55	34	32	82	/	/	/	/	
100 III	100	189	75	55	36.5	32	102	/	/	/	/	
120 III	125	214	75	55	39	52	122	/	/	/	/	
130 III	130	220	75	55	36.5	55	131	/	/	/	/	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- “ / ” refers to the Mounting method not available



ALH-0.66 III

◎ Technical parameters comparison table

Spec. & order code	20 III		30 III			50 III	
Busbar spec. (mm) Max	20x10 1 piece		30x10 1 piece			50x10 1 piece	
Accuracy	0.5	1	0.2S	0.2	0.5	0.2S	0.2
Rated current ratio	Rated capacity (VA)/turns (T)						
75 / 5		2.5					
100 / 5		2.5					
150 / 5	2.5			5/2	2.5		
200 / 5	5				5		
250 / 5	5			2.5	5		
300 / 5				5	10		
400 / 5			2.5	10	10		10
500 / 5				10	10		10
600 / 5						2.5	10
750 / 5							10
800 / 5							10
1000 / 5							15
1200 / 5							
1250 / 5							
1500 / 5							
2000 / 5							
100 / 1	0.2				0.2		
150 / 1	2.5				2.5		
200 / 1	5				5		
250 / 1					5		
300 / 1					5		
400 / 1					10		
500 / 1					10		
600 / 1							
750 / 1							
800 / 1							
1000 / 1							
1200 / 1							
1250 / 1							
1500 / 1							
2000 / 1							

Spec. & order code	50 III	60 III				80 III	
Busbar spec. (mm) Max	50x10 1 piece	60x10 1-2 pieces				80x10 1-2 pieces	
Accuracy	0.5	0.2S	0.5S	0.2	0.5	0.2S	0.5S
Rated current ratio	Rated capacity (VA)/turns (T)						
75 / 5							
100 / 5							
150 / 5							
200 / 5							
250 / 5	5						
300 / 5	5						
400 / 5	10			10	10		
500 / 5	10			10	10		
600 / 5	10	2.5		10	10		10
750 / 5	10			10	10		
800 / 5	10	5		10	10	5	
1000 / 5	20	10		15	15	10	
1200 / 5		10		20	20	10	
1250 / 5		10		20	20	10	
1500 / 5				20	20	10	
2000 / 5				40	40	10	
100 / 1							
150 / 1	2.5						
200 / 1	5						
250 / 1	5				5		
300 / 1	5				5		
400 / 1	10				10		
500 / 1	10		10		10		
600 / 1	10				10		
750 / 1	10				10		
800 / 1	10				10		
1000 / 1	10			10	10		
1200 / 1				20			
1250 / 1							
1500 / 1				20			
2000 / 1				20			20

◎ Technical parameters comparison table

Spec. & order code	80 III		100 III			120 III
Busbar spec. (mm) Max	80x10 1-2 pieces		100x10 1-2 pieces			120x10 1-3 pieces
Accuracy	0.2	0.5	0.2S	0.2	0.5	0.2S
Rated current ratio	Rated capacity (VA)/turns (T)					
400 / 5		5			5	
500 / 5		10			5	
600 / 5	10				5	
750 / 5	10				10	
800 / 5	10			10		
1000 / 5	15			15		
1200 / 5	20		10	20		
1250 / 5	20		10	20		
1500 / 5	20		10	20		
2000 / 5	40		20	40		
2500 / 5	40		20	40		
3000 / 5			40	40		
3500 / 5						
4000 / 5						40
5000 / 5						
400 / 1		10			10	
500 / 1		10			10	
600 / 1		10			10	
750 / 1		10			10	
800 / 1		10			10	
1000 / 1		10			10	
1200 / 1	20			20		
1250 / 1	20					
1500 / 1	20			20		
2000 / 1	20			20		
2500 / 1	20			20		
3000 / 1				20		
4000 / 1						
5000 / 1						

Spec. & order code	120 III		130 III			
Busbar spec. (mm) Max	120x10 1-3 pieces		130x10 1-3 pieces			
Accuracy	0.2	0.5	0.2S	0.5S	0.2	0.5
Rated current ratio	Rated capacity (VA)/turns (T)					
400 / 5						
500 / 5						
600 / 5						
750 / 5						
800 / 5	10					10
1000 / 5	15				15	
1200 / 5	20				20	
1250 / 5	20				20	
1500 / 5	20				20	
2000 / 5	40		40		40	
2500 / 5	40		40		40	
3000 / 5	40		40		40	
3500 / 5	40		40		40	
4000 / 5	40		40		40	
5000 / 5			40		40	
400 / 1		5				
500 / 1		10				
600 / 1		10				
750 / 1		10				
800 / 1		10				
1000 / 1		10				
1200 / 1	20				20	
1250 / 1						
1500 / 1	20				20	
2000 / 1	20				20	
2500 / 1	20				20	
3000 / 1	20			20	20	
4000 / 1	20				20	
5000 / 1					20	

APT

ALH-0.66 M/ Φ

Series current Transformer

Product feature

- ALH-0.66M type current transformer is applicable to small current and space, especially the drawer cabinet.
- It can be easily and directly installed with the guide rail (or the bottom rail provided by the manufacturer) or the bus.
- By adopting the screw-type primary wiring, it may not need to increase the number of turns on the primary side during small current.
- Apart from the features of M type, ALH-0.66 Φ types current transformer's primary side uses the direct core-through method , without disconnecting the wire.
- The core-through hole diameters are Φ 8mm, Φ 12mm, Φ 15mm and Φ 22mm.
- The number of turns is 1 (except for the customized specification not included in the sample).

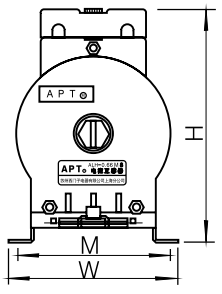
◎ Specifications and dimensions

Unit: mm

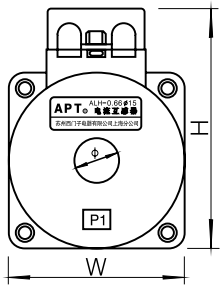
Dimensions / Spec. & order code	Dimension			Perforation dimension	Mounting dimension	Mounting method (page 38)
	W	H	D	Φ	M	
M8- I	74	100	44	/	64 35	F G I
Φ8- I	74	100	44	8	64 35	F G
Φ15- I	74	100	44	15	64 35	F G
M8-II	67	86	32.5	/	69.5	H I
Φ12	67	92	24	12	69.5	H
Φ22	67	92	24	22	69.5	H
Φ8-II	59	80	26	8	/	/
Φ15-II	59	80	26	15	/	/

NOTE

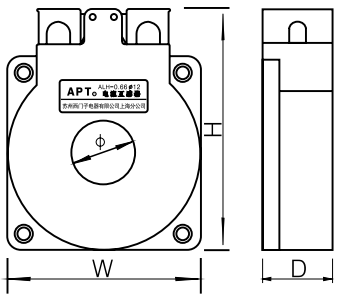
- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- “ / ” refers to the Mounting method not available



M8-I Φ8-I Φ15-I



Φ8-II Φ15-II



M8-II Φ12 Φ22

MΦ

◎ Technical parameters comparison table

Spec. & order code	M8- I		M8- II		ϕ8- I	ϕ8- II
Accuracy	0.5	1	0.5	1	1	1
Rated current ratio	Rated capacity (VA)/turns (T)					
5 / 5	2.5	2.5	2.5	2.5		
10 / 5	2.5	2.5	2.5	2.5		
15 / 5	2.5	2.5	2.5	2.5		
20 / 5	2.5	2.5	2.5	2.5		
25 / 5	2.5	2.5	2.5	2.5		
30 / 5	2.5		2.5			
40 / 5	2.5		2.5			
50 / 5	2.5		2.5			
60 / 5	2.5		2.5			
75 / 5	2.5		2.5		2.5	2.5
80 / 5	2.5		2.5		2.5	2.5
100 / 5	2.5		2.5		2.5	2.5
150 / 5	2.5		2.5		2.5	2.5
200 / 5					5	5
250 / 5					5	5
300 / 5					5	5
400 / 5						
500 / 5						
600 / 5						
750 / 5						
800 / 5						
1 / 1	0.4		0.4			
2 / 1	0.4		0.4			
5 / 1	0.4		0.4			
10 / 1	0.4		0.4			
15 / 1	0.4		0.4			
20 / 1	0.4		0.4		0.1	0.1
25 / 1	0.4		0.4		0.1	0.1
30 / 1	0.4		0.4		0.1	0.1
40 / 1	0.4		0.4		0.1	0.1
50 / 1	0.4		0.4		0.2	0.2
60 / 1	0.4		0.4		0.2	0.2
75 / 1	0.4		0.4		0.2	0.2
80 / 1	0.4		0.4			
100 / 1	0.4		0.4		0.2	0.2
150 / 1	0.4		0.4		2.5	2.5
200 / 1					5	5
250 / 1						
300 / 1						
400 / 1						
500 / 1						
600 / 1						

Spec. & order code	ϕ12		ϕ15- Ⅰ		ϕ15-Ⅱ	ϕ22	
Accuracy	0.5	1	0.5	1	1	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)						
5 / 5							
10 / 5							
15 / 5							
20 / 5							
25 / 5							
30 / 5							
40 / 5							
50 / 5							
60 / 5							
75 / 5		2.5		2.5	2.5		2.5
80 / 5		2.5					
100 / 5		2.5		2.5	2.5		2.5
150 / 5	2.5	2.5		2.5	2.5	2.5	2.5
200 / 5	2.5	5		5	5	2.5	5
250 / 5	2.5	5		5	5	2.5	5
300 / 5	2.5	5		5		5	5
400 / 5	2.5	5		5			5
500 / 5	5			10			10
600 / 5	10			10			10
750 / 5	10						10
800 / 5	5						10
1 / 1							
2 / 1							
5 / 1							
10 / 1							
15 / 1							
20 / 1		0.1		0.1	0.1		0.1
25 / 1		0.1		0.1	0.1		0.1
30 / 1	0.1			0.1	0.1	0.1	
40 / 1	0.1			0.1	0.1	0.1	
50 / 1	0.2			0.2	0.2	0.2	
60 / 1	0.2			0.2	0.2	0.2	
75 / 1	0.2			0.2	0.2	0.2	
80 / 1							
100 / 1	0.2		0.2		0.2	0.2	
150 / 1	2.5		2.5		2.5	2.5	
200 / 1	5		5		5	5	
250 / 1	5		5			5	
300 / 1	5		5			5	
400 / 1	10		10			10	
500 / 1	10		10			10	
600 / 1	10					10	

NOTE

◎ Order code description (protection class)

No.	ALH - 0.66 □ □ □ □ □ 1 2 3 4 5 6 7
1	Registration approval order code
2	Rated voltage 0.66kV, i.e. AC660V
3	Specification & order code: see the specifications and dimensions table
4	Rated current ratio: the values before and after "/" represent currents on the primary and secondary sides, in the unit of A
5	Accuracy: the number stands for Accuracy, R for rating
6	Rated capacity: in the unit of VA
7	Number of core-through turns: for primary current, in the unit of T

Order code example：ALH-0.66 60×50Ⅱ-P 250/5 10P10 2.5VA 1T

Order code explanation: spec. & order code of 60×50 II-P type, current on the primary side of 250A, current on the secondary side of 5A, Accuracy of 10P10, capacity 2.5, number of core-through turns of 1

◎ Technical feature

1. Compliance with GB20840
2. Primary current 200A~6300A Secondary current5A / 1A
3. Rated voltage AC660V
4. Rated frequency 50 / 60Hz
5. Working temperature -25℃ ~+40℃ Max temperature resistance 120℃ Storage temperature -40℃ ~+70℃
6. Altitude ≤ 1000m (normal application: in the special application with altitude over 1000m, corresponding transformer shall be selected as per the constraints in GB20840)
7. Power frequency withstand voltage 3000V 50Hz · 1min(between the enclosure and the secondary coil)
8. Insulation class E
9. Accuracy (transformer for protection) 5P5、5P10、5P15、5P20、10P5、10P10、10P15、10P20

◎ Ordering instruction

1.The order code, specification, current ratio, Accuracy and secondary rated capacity of the current transformer shall be specified;

2.Specify the Mounting methods. (If not specified, the company can provide as per its regulations.)

◎ Precautions for Mounting and use of transformer

1.The secondary winding of current transformer cannot be open circuit . Otherwise, the high voltage may endanger the equipment and personal safety.

2.One end of the secondary side of current transformer shall be reliably grounding to avoid insulation breakdown between the primary and the secondary sides.

3.The current transformer shall be used strictly according to the rated power, the rated transformation ratio and the Accuracy on the nameplate.

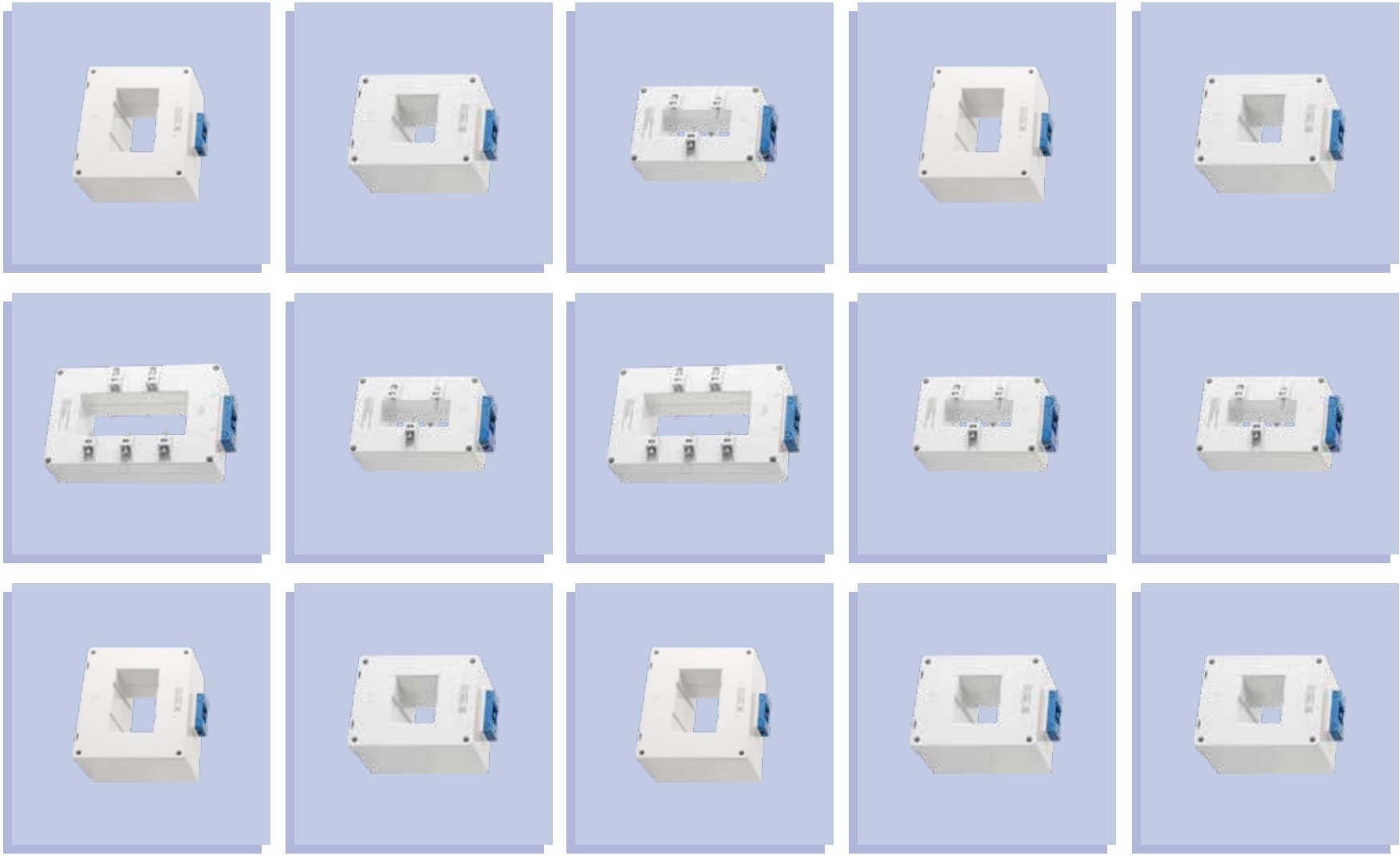
4.The primary winding of current transformer and the measured circuit shall be in series, the secondary winding and the electrical measuring instrument shall be in series, and the polarity of current transformer shall be noted during wiring.

5.The connecting lead for secondary loop shall adopt the insulated wire with small resistance, without any connector in the middle.

6.The impedance of instrument connected in series with the secondary winding loop shall not exceed that specified in the technical standards.

7.The same current transformer shall not be used for relay protection and electricity measurement.

Ⅱ-P & Ⅲ-P



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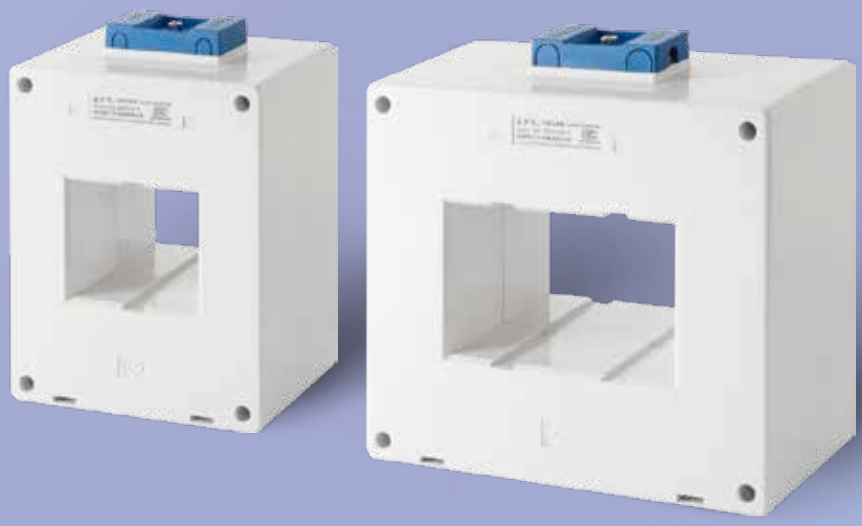


ALH-0.66 II –P

(protection class)

Series current Transformer

Product feature

- The class is up to 5P20, which can meet the max protection demand of low-voltage circuit.
- The current on primary side is up to 6,300A.
- Multiple specifications are optional, suitable for different Mounting environments.
- The enclosure is made of environment-friendly PC material.

Do not use for trade settlement

ALH-0.66 current transformer / II-P (protection class)

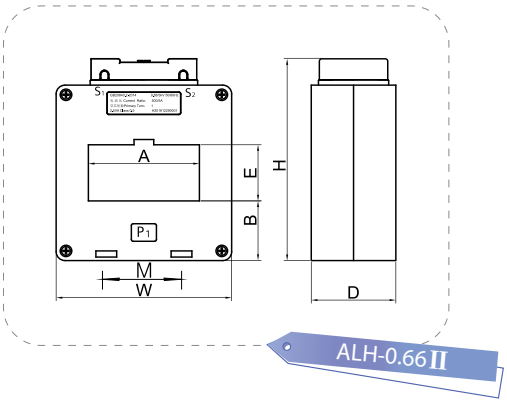
◎ Specifications and dimensions

Unit: mm

Dimensions / Spec. & order code	Dimension				Perforation dimension		Mounting dimension	Mounting method (page 38)
	W	H	D	B	A	E	M	
60x50 Ⅱ-P	129	181	90	54.5	64	56	70	C
80x60 Ⅱ-P	164	186	90	52	84	66	90	E
100x60 Ⅱ-P	189	186	90	52	104	66	120	
125x60 Ⅱ-P	220	210	90	64	130	66	140	
170x100 Ⅱ-P	255	219	60	50	170	106.5	40 75 40	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- " / " refers to the Mounting method not available



◎ Technical parameters comparison table

Spec. & order code	60x50 II-P			80x60 II-P		
Busbar spec. (mm) Max	60x10 1-2 pieces			80x10 1-2 pieces		
Accuracy	5P10 10P10	5P15 10P15	5P20 10P20	5P10 10P10	5P15 10P15	5P20 10P20
Rated current ratio	Rated capacity (VA)/turns (T)					
200 / 5	2.5					
250 / 5	2.5	2.5				
300 / 5	5	2.5		5	2.5	
400 / 5	5	2.5		5	2.5	
500 / 5	5	2.5		5	2.5	
600 / 5	10	5	2.5	10	5	2.5
750 / 5	10	5	2.5	10	5	2.5
800 / 5	15	5	2.5	15	5	2.5
1000 / 5	15	7.5	2.5	15	7.5	2.5
1200 / 5	20	10	2.5	20	10	2.5
1500 / 5	20	10	5	20	10	5
2000 / 5				20	15	5
2500 / 5						
3000 / 5						
4000 / 5						
5000 / 5						
6000/6300 / 5						
200 / 1	2.5	2.5				
250 / 1	5	2.5	2.5			
300 / 1	5	2.5	2.5	5	2.5	2.5
400 / 1	7.5	5	2.5	7.5	5	2.5
500 / 1	10	5	2.5	10	5	2.5
600 / 1	10	7.5	5	10	7.5	5
750 / 1	10	7.5	5	10	7.5	5
800 / 1	10	7.5	5	10	7.5	5
1000 / 1	15	10	5	15	10	5
1200 / 1	15	10	5	15	10	5
1500 / 1	15	10	7.5	15	10	7.5
2000 / 1				20	15	7.5
2500 / 1						
3000 / 1						
4000 / 1						
5000 / 1						
6000/6300 / 1						

Spec. & order code	100x60 Ⅱ-P			125x60 Ⅱ-P			170x100 Ⅱ-P		
Busbar spec. (mm) Max	100x10 1-2 pieces			125x10 1-3 pieces			160x10 1-4 pieces		
Accuracy	5P10 10P10	5P15 10P15	5P20 10P20	5P10 10P10	5P15 10P15	5P20 10P20	5P10 10P10	5P15 10P15	5P20 10P20
Rated current ratio	Rated capacity (VA)/turns (T)								
200 / 5									
250 / 5									
300 / 5									
400 / 5	5	2.5							
500 / 5	5	2.5							
600 / 5	10	5	2.5						
750 / 5	10	5	2.5	10	5	2.5			
800 / 5	15	5	2.5	15	5	2.5			
1000 / 5	15	7.5	2.5	15	7.5	2.5			
1200 / 5	20	10	2.5	20	10	2.5			
1500 / 5	20	10	5	20	10	5	5		
2000 / 5	20	15	5	20	15	5	5		
2500 / 5	25	15	5	25	15	5	5		
3000 / 5	25	15	10	25	15	10	5	2.5	
4000 / 5				30	20	10	5	2.5	
5000 / 5				30	20	15	5	2.5	
6000/6300 / 5							5	2.5	
200 / 1									
250 / 1									
300 / 1	5	2.5	2.5						
400 / 1	7.5	5	2.5						
500 / 1	10	5	2.5						
600 / 1	10	7.5	5						
750 / 1	10	7.5	5	10	7.5	5			
800 / 1	10	7.5	5	10	7.5	5			
1000 / 1	15	10	5	15	10	5			
1200 / 1	15	10	5	15	10	5			
1500 / 1	15	10	7.5	15	10	7.5	7.5	5	2.5
2000 / 1	20	15	7.5	20	15	5	7.5	5	2.5
2500 / 1	20	15	7.5	20	15	7.5	7.5	5	2.5
3000 / 1	20	15	7.5	20	15	7.5	10	5	2.5
4000 / 1				25	15	10	10	5	2.5
5000 / 1				25	15	10	10	5	2.5
6000/6300 / 1							10	5	2.5

APT

ALH-0.66 Ⅲ-P (protection class)

Series current Transformer

Product feature

- The class is up to 5P20, which can meet the max protection demand of low-voltage circuit.
- The current on primary side is up to 6,300A.
- Multiple specifications are optional, suitable for different Mounting environments.
- The enclosure is made of environment-friendly PC material.

Do not use for trade settlement

ALH-0.66 current transformer / Ⅲ-P (protection class)

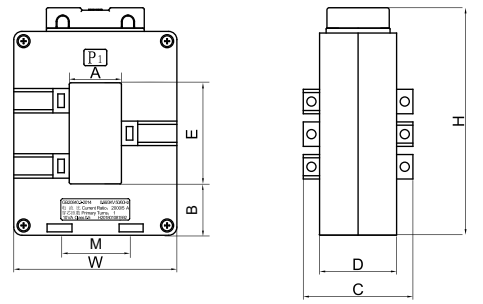
◎ 规格尺寸

Unit: mm

Dimensions / Spec. & order code	Dimension					Perforation dimension		Mounting method (page 38)
	W	H	C	D	B	A	E	
50 III-P	75	114	76	56	24	16	52	J
60 III-P	100	139	75	55	21	32	62	
80 III-P	100	164	75	55	34	32	82	
100 III-P	100	189	75	55	36.5	32	102	
120 III-P	125	214	75	55	39	52	122	
130 III-P	130	220	75	55	36.5	55	131	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- " / " refers to the Mounting method not available



ALH-0.66III

◎ Technical parameters comparison table

Spec. & order code	50 III-P		60 III-P			80 III-P		
Busbar spec. (mm) Max	50x10 1 piece		60x10 1-2 pieces			80x10 1-2 pieces		
Accuracy	5P5 10P5	5P10 10P10	5P5 10P5	5P10 10P10	5P15 10P15	5P10 10P10	5P15 10P15	5P20 10P20
Rated current ratio	Rated capacity (VA)/turns (T)							
200 / 5	2.5		2.5					
250 / 5	2.5		2.5					
300 / 5	2.5		2.5			2.5		
400 / 5	2.5		5	2.5		2.5		
500 / 5	2.5		5	2.5		2.5		
600 / 5	5		5	2.5		2.5		
750 / 5			5	2.5		2.5		
800 / 5			5	2.5		2.5		
1000 / 5			10	5		5		
1200 / 5			10	5		5	2.5	
1500 / 5						5		
2000 / 5								
2500 / 5								
3000 / 5								
4000 / 5								
200 / 1	2.5		2.5					
250 / 1	2.5		2.5					
300 / 1	2.5		2.5	2.5				
400 / 1	2.5		2.5	2.5		2.5		
500 / 1	5	2.5	5	2.5		2.5		
600 / 1	5	2.5	5	2.5		5	2.5	
750 / 1			5	5	2.5	5	2.5	
800 / 1			5	5	2.5	5	2.5	
1000 / 1						5	2.5	
1200 / 1								
1500 / 1								
2000 / 1								
2500 / 1								
3000 / 1								
4000 / 1								

Spec. & order code	100 III-P			120 III-P			130 III-P		
Busbar spec. (mm) Max	100x10 1-2 pieces			120x10 1-3 pieces			130x10 1-3 pieces		
Accuracy	5P10 10P10	5P15 10P15	5P20 10P20	5P10 10P10	5P15 10P15	5P20 10P20	5P10 10P10	5P15 10P15	5P20 10P20
Rated current ratio	Rated capacity (VA)/turns (T)								
200 / 5									
250 / 5									
300 / 5									
400 / 5	2.5								
500 / 5	2.5								
600 / 5	2.5								
750 / 5	2.5			2.5			2.5		
800 / 5	2.5			2.5			2.5		
1000 / 5	5			5			5		
1200 / 5	5	2.5		5	2.5		5	2.5	
1500 / 5	5	2.5		5	2.5		5	2.5	
2000 / 5	5	2.5		5	2.5		5	2.5	
2500 / 5	5	2.5		5	2.5		5	2.5	
3000 / 5				5	2.5		5	2.5	
4000 / 5							5	2.5	
200 / 1									
250 / 1									
300 / 1									
400 / 1	2.5								
500 / 1	2.5								
600 / 1	5	2.5							
750 / 1	5	2.5		5	2.5				
800 / 1	5	2.5		5	2.5				
1000 / 1	5	2.5		5	2.5		5	2.5	
1200 / 1	5	2.5		5	2.5		5	2.5	
1500 / 1	5	2.5		5	2.5		5	2.5	
2000 / 1				5	2.5		5	2.5	
2500 / 1				5	2.5		5	2.5	
3000 / 1							5	2.5	
4000 / 1									

NOTE

◎ Order code description (Openable class)

No.	ALH - 0.66 □ □ □ □ □ 1 2 3 4 5 6 7
1	Registration approval order code
2	Rated voltage 0.66kV, i.e. AC660V
3	Specification & order code: see the specifications and dimensions table
4	Rated current ratio: the values before and after "/" represent currents on the primary and secondary sides, in the unit of A
5	Accuracy: the number stands for Accuracy, R for rating
6	Rated capacity: in the unit of VA (Ω for SK series)
7	Number of core-through turns: for primary current, in the unit of T

Order code example 1:ALH-0.66 HK80×80 750/5 1R 2.5VA 1T
Order code explanation: HK type, spec. & order code of 80×80 mm, current on primary side of 750A, current on secondary side of 5A, Accuracy of 1R, capacity of 2.5VA, number of core-through turns of 1T

Order code example 2:ALH-0.66 SK06L 5A / 2.5mA 1R 50Ω 1T
Order code explanation: SK06L type, current on primary side of 5A, current on secondary side of 2.5mA, Accuracy of 1R, load of 50Ω, number of core-through turns of 1T

◎ Technical feature

1. Compliance with GB20840
2. Primary current 5A~2000A Secondary current 2.5mA~5A
3. Rated voltage AC660V
4. Rated frequency 50 / 60Hz
5. Working temperature -25℃ ~+40℃ Max temperature resistance 120℃ Storage temperature -40℃ ~+70℃
6. Altitude ≤ 1000m (normal application: in the special application with altitude over 1000m, corresponding transformer shall be selected as per the constraints in GB20840)
7. Power frequency withstand voltage 3000V 50Hz · 1min(between the enclosure and the secondary coil)
8. Insulation class E (B for SK series)
9. Accuracy 0.5, 1

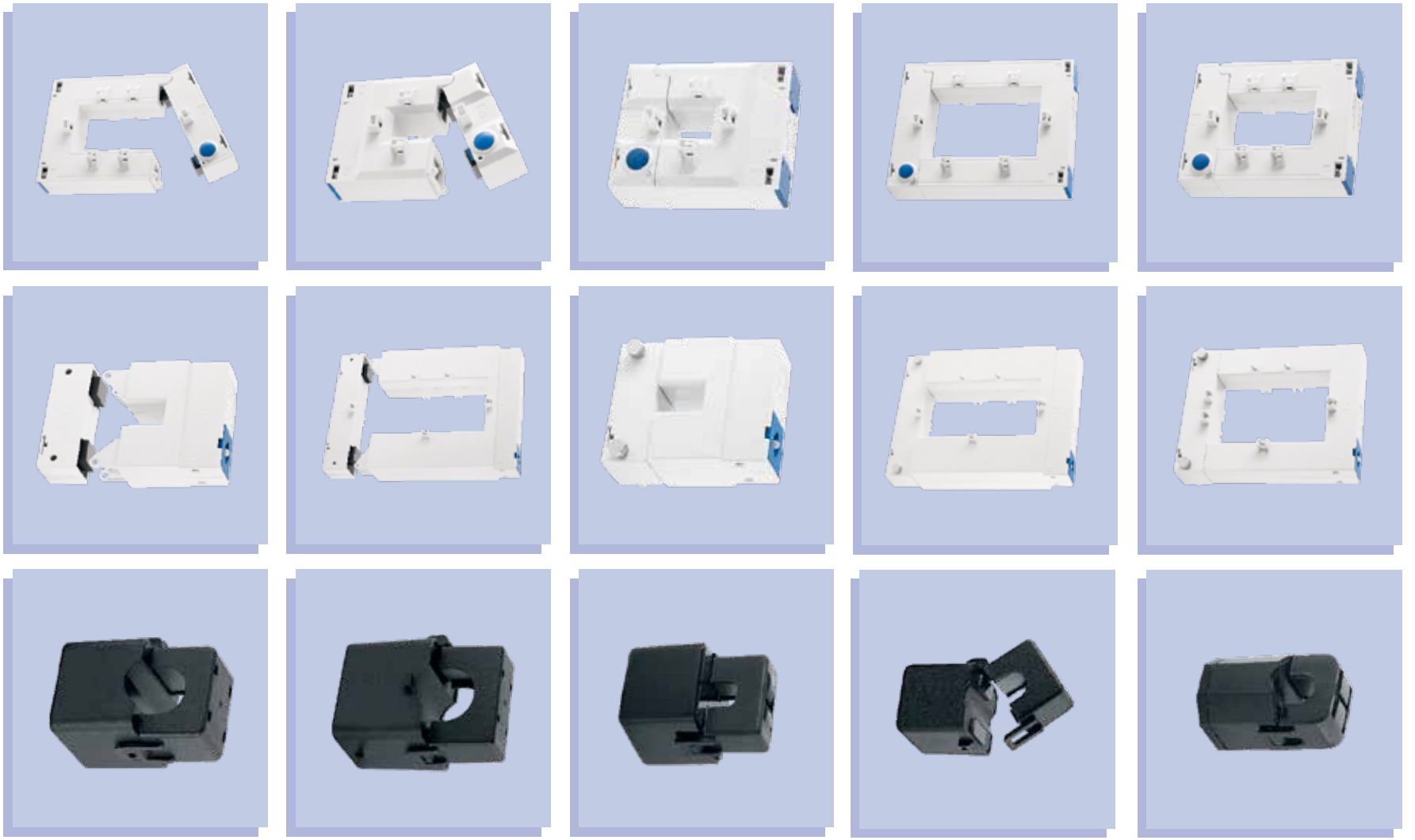
◎ Ordering instruction

1.The order code, specification, current ratio, Accuracy and secondary rated capacity of the current transformer shall be specified;
2.Specify the Mounting methods. (If not specified, the company can provide as per its regulations.)

◎ Precautions for Mounting and use of transformer

1.The secondary winding of current transformer cannot be open circuit . Otherwise, the high voltage may endanger the equipment and personal safety.
2.One end of the secondary side of current transformer shall be reliably grounding to avoid insulation breakdown between the primary and the secondary sides.
3.The current transformer shall be used strictly according to the rated power, the rated transformation ratio and the Accuracy on the nameplate.
4.The primary winding of current transformer and the measured circuit shall be in series, the secondary winding and the electrical measuring instrument shall be in series, and the polarity of current transformer shall be noted during wiring.
5.The connecting lead for secondary loop shall adopt the insulated wire with small resistance, without any connector in the middle.
6.The impedance of instrument connected in series with the secondary winding loop shall not exceed that specified in the technical standards.
7.The same current transformer shall not be used for relay protection and electricity measurement.

HK&NK&SK



APTO

ALH-0.66 HK

(Openable class)

Series current Transformer

Product feature

- Half-Openable class: connection on one side and opening on the other side
- Snap fixing: to ensure rapid and efficient Mounting
- Securing with bolts: to ensure fastness and safety with dual insurance
- PC material is adopted
- High-quality varnished wire

Do not use for trade settlement

ALH-0.66 current transformer / HK (Openable class)

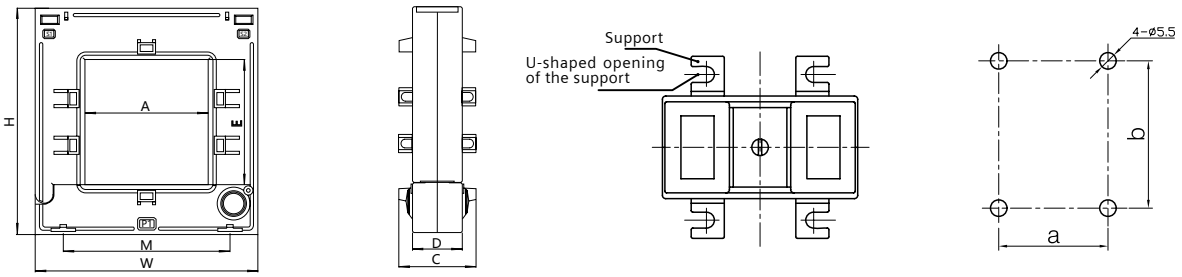
◎ Specifications and dimensions

Unit: mm

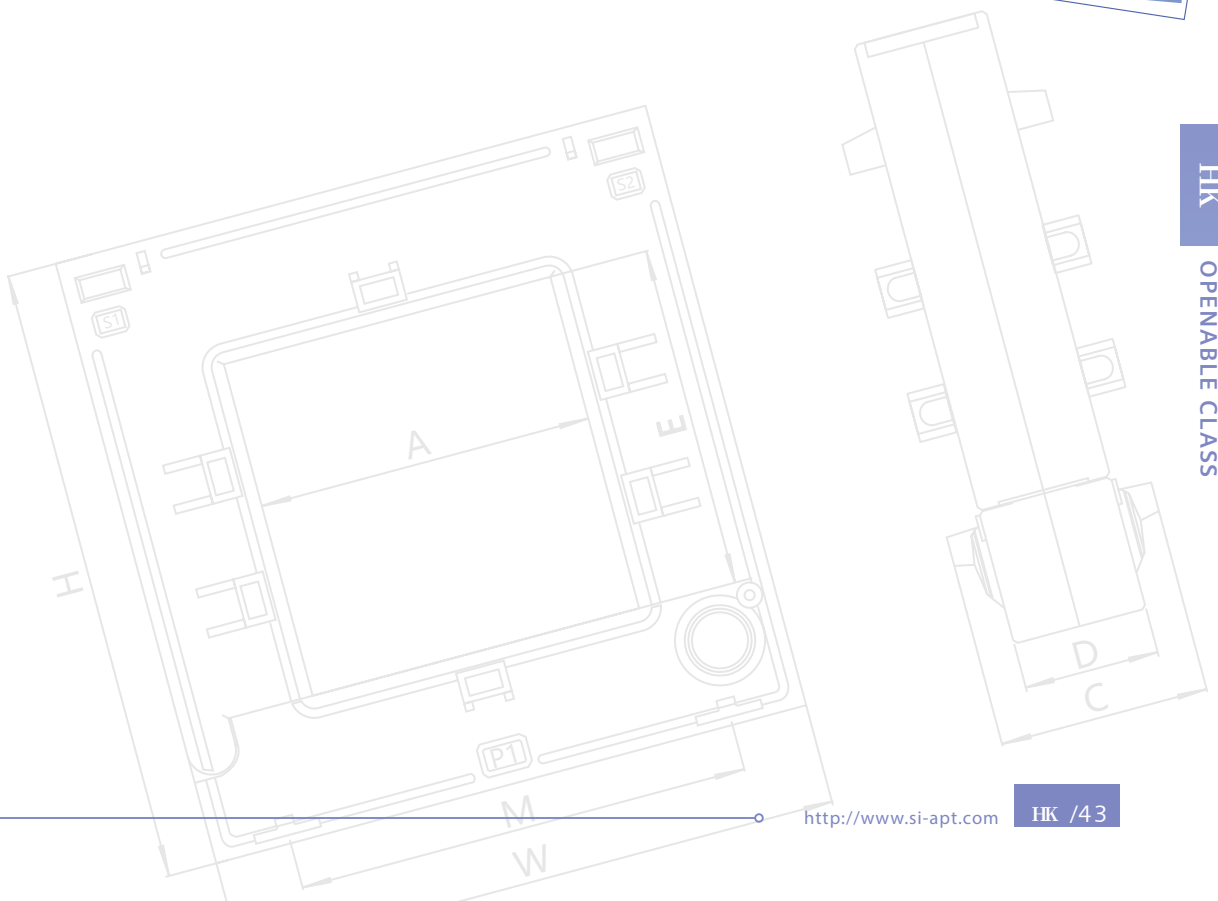
Dimensions / Spec. & order code	Dimension				Perforation dimension		Mounting dimension	Mounting method		
	W	H	D	C	A	E	M	A		J
								a	b	
HK20x30	91.1	112.5	40	58	22	32	52	52	56	
HK50x80	117	147	32.3	50	52	82	80	80	56	
HK80x80	145.4	146	32.3	50	80.5	80.9	108.5	108.5	56	
HK80x120	145.4	185.5	32.3	50	80.6	120.8	108.5	108.5	56	

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18



ALH-0.66HK



◎ Technical parameters comparison table

Spec. & order code	HK 20x30		HK 50x80	
Busbar spec. (mm) Max	30x10 1 piece		80x10 1 piece	
Accuracy	0.5	1	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)			
300 / 5		2.5		1.5
400 / 5		5		
500 / 5				2.5
600 / 5				2.5
750 / 5				2.5
800 / 5			1	10
1000 / 5			5	10
1200 / 5				
1250 / 5				
1500 / 5				
1600 / 5				
300 / 1		2.5		
400 / 1		5		2.5
500 / 1				5
600 / 1			1.5	10
750 / 1			1.5	10
800 / 1			5	10
1000 / 1			5	10
1200 / 1				
1250 / 1				
1500 / 1				
1600 / 1				

△ For any order code or parameter not listed in the table, please consult APT Sales or distributor.

Spec. & order code	HK 80x80		HK 80x120	
Busbar spec. (mm) Max	80x10 1-2 pieces		100x10 1-2 pieces	
Accuracy	0.5	1	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)			
300 / 5				
400 / 5				
500 / 5		2.5		
600 / 5		2.5		
750 / 5		2.5		
800 / 5		5	10	
1000 / 5	2.5	10	10	
1200 / 5			10	
1250 / 5			10	
1500 / 5			20	
1600 / 5			20	
300 / 1				
400 / 1		5		
500 / 1		5		
600 / 1	1.5	10		
750 / 1	1.5	10		
800 / 1	5	10	10	
1000 / 1	5	10	10	
1200 / 1			10	
1250 / 1			10	
1500 / 1			20	
1600 / 1			20	

△ For any order code or parameter not listed in the table, please consult APT Sales or distributor.

APT

ALH-0.66 NK

(Openable class)

Series current Transformer

Product feature

- Full-Openable class: the bottom is completely separated from the body.
- Securing with bolts: to ensure fastness and safety
- Smaller occupied space: plug-in wiring on the side
- Typical family-series enclosure: in blue and white
- High-quality silicon steel sheet

Do not use for trade settlement

ALH-0.66 current transformer / NK (Openable class)

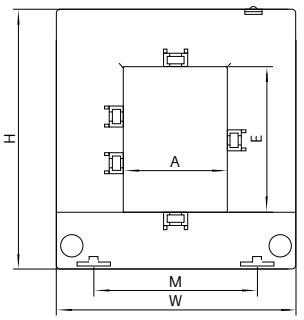
◎ Specifications and dimensions

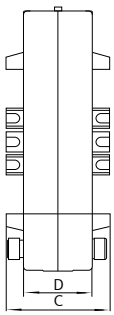
Unit: mm

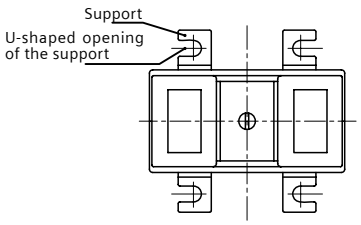
Dimensions / Spec. & order code	Dimension				Perforation dimension			Mounting method		
	W	H	D	C	A	E	M	A		J
								a	b	/
NK20x30	89	112	33	47.5	20.6	32	52	52	56	/
NK50x80	116	146	33	49.8	50	81	79	79	56	
NK80x80	146	147	33	49.8	80	81	109	109	56	
NK80x120	146	185	33	49.8	80	122	109	109	56	

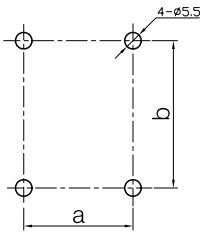
NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18
- “ / ” refers to the Mounting method not available









ALH-0.66NK

◎ Technical parameters comparison table

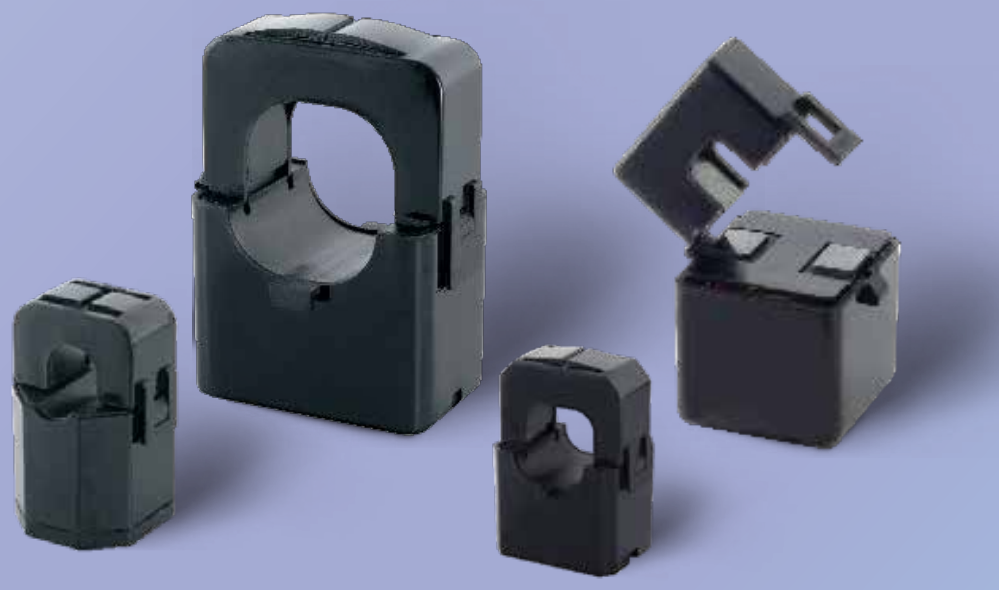
Spec. & order code	NK 20x30		NK 50x80	
Busbar spec. (mm) Max	30x10 1 piece		80x10 1 piece	
Accuracy	0.5	1	0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)			
100 / 5				
150 / 5				
200 / 5		1		
250 / 5		1.5		1
300 / 5		2.5		1.5
400 / 5	1.5	2.5		2.5
500 / 5				3.75
600 / 5			2.5	3.75
750 / 5			2.5	5
800 / 5			2.5	5
1000 / 5			5	7.5
1200 / 5			5	7.5
1250 / 5				
1500 / 5				
1600 / 5				
2000 / 5				
2500 / 5				
3000 / 5				
4000 / 5				
100 / 1				
150 / 1		1		
200 / 1		2.5		
250 / 1		2.5		1.5
300 / 1	1.5	2.5		2.5
400 / 1	2.5	3.75		2.5
500 / 1			2.5	3.75
600 / 1			2.5	3.75
750 / 1			2.5	5
800 / 1			2.5	5
1000 / 1			5	7.5
1200 / 1			5	7.5
1250 / 1				
1500 / 1				
1600 / 1				
2000 / 1				
2500 / 1				
3000 / 1				
4000 / 1				

△ For any order code or parameter not listed in the table, please consult APT Sales or distributor.

Spec. & order code	NK 80x80		NK 80x120	
Busbar spec. (mm) Max	80x10 1-2 pieces		120x10 1-2 pieces	
Accuracy	1		0.5	1
Rated current ratio	Rated capacity (VA)/turns (T)			
100 / 5				
150 / 5				
200 / 5				
250 / 5		1		
300 / 5		1.5		
400 / 5		2.5		
500 / 5	2.5	3.75		3.75
600 / 5	2.5	3.75		3.75
750 / 5	2.5	5	2.5	5
800 / 5	2.5	5	2.5	5
1000 / 5	5	7.5	5	7.5
1200 / 5	5	7.5	5	7.5
1250 / 5			5	7.5
1500 / 5			7.5	10
1600 / 5			7.5	10
2000 / 5			7.5	10
2500 / 5				
3000 / 5				
4000 / 5				
100 / 1				
150 / 1				
200 / 1				
250 / 1		1.5		
300 / 1		2.5		
400 / 1		2.5		
500 / 1	2.5	3.75		3.75
600 / 1	2.5	3.75		3.75
750 / 1	2.5	5	2.5	5
800 / 1	2.5	5	2.5	5
1000 / 1	5	7.5	5	7.5
1200 / 1	5	7.5	5	7.5
1250 / 1			5	7.5
1500 / 1			7.5	10
1600 / 1			7.5	10
2000 / 1				
2500 / 1				
3000 / 1				
4000 / 1				

△ For any order code or parameter not listed in the table, please consult APT Sales or distributor.

APT



ALH-0.66

SK**J / SK**L

(Openable class)

Series current Transformer

Product feature

- Wide range of hole diameters: 6mm~46mm
- Current on secondary side: 2.5mA~60mA
- Ferrite material is adopted for small-current transformer: for a higher precision, and no rusting
- Integrated TVS (Transient Voltage Suppressor): no open-circuit high voltage to ensure safety
- Nylon material is adopted and the insulation class is B

Do not use for trade settlement

ALH-0.66 current transformer / SK (Openable class)

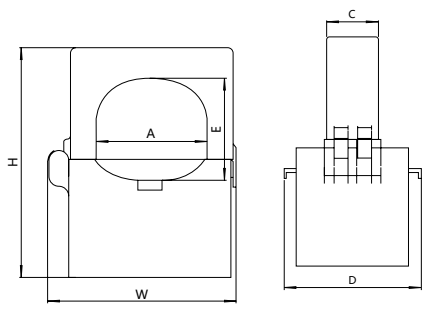
◎ Specifications and dimensions

Unit: mm

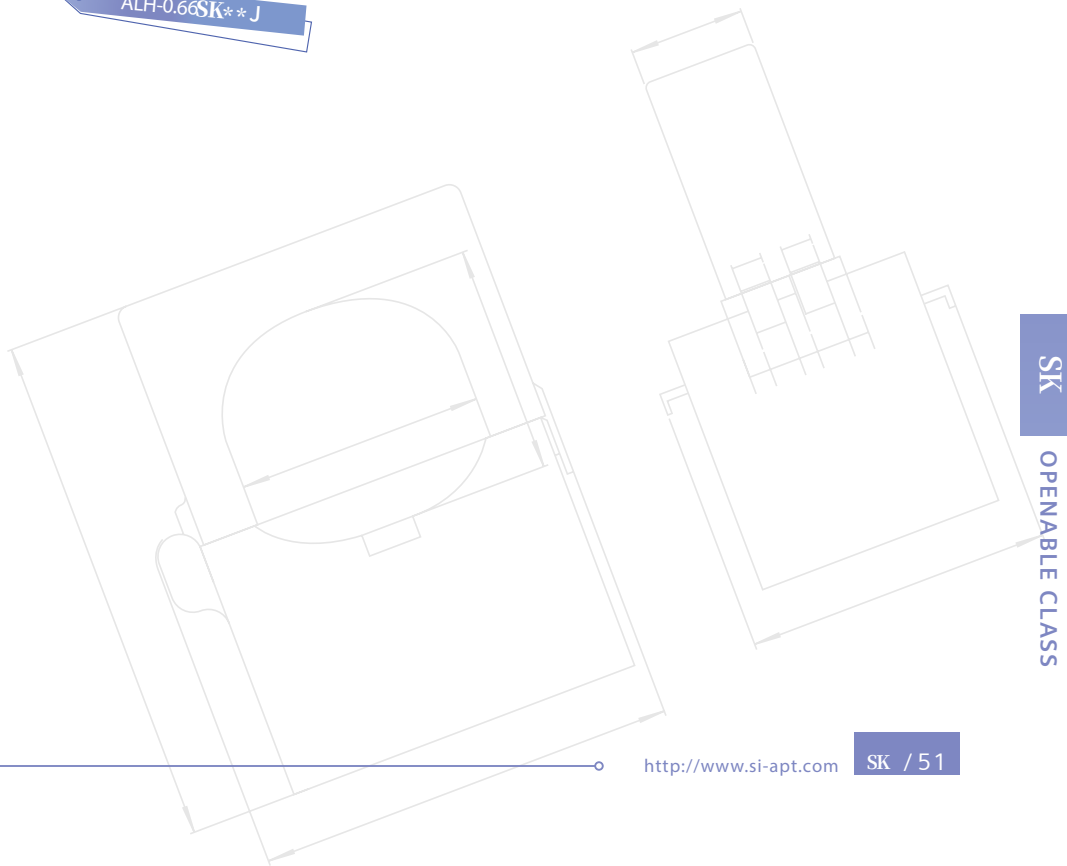
Dimensions / Spec. & order code	Dimension				Perforation dimension		Mounting method	Built-in lead (1m long)
	W	H	D	C	A	E		
SK10J	29.3	40.5	26	14	9.3	10.3	Hung on directly	1015 AWG24# In parallel
SK16J	36.1	46.8	32.3	19.4	15.7	16.3		1015 AWG24# In parallel
SK24J	53	70	43.2	18.1	24.3	24.2	Hung on directly + bundled by ties	1015 AWG24# In parallel
SK36J	64.4	84.7	48	21.5	4.9	36.9		1015 AWG24# In parallel
SK46J	79.4	96.5	57	21.6	46	46.3		1015 AWG24# In parallel

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18



ALH-0.66SK** J



◎ Technical parameters comparison table

Spec. & order code	Rated current ratio	Turns ratio	Accuracy	Load	Maxmium primary current
SK10J	5A/5mA	1000/1	0.5	50Ω	40A
	5A/2.5mA	2000/1	0.5	50Ω	40A
	5A/2mA	2500/1	0.5	50Ω	40A
	6A/2mA	3000/1	0.5	50Ω	40A
SK16J	50A/50mA	1000/1	0.5	50Ω	60A
	80A/40mA	2000/1	0.5	50Ω	100A
	100A/40mA	2500/1	0.5	50Ω	120A
	100A/33.33mA	3000/1	0.5	50Ω	120A
	100A/25mA	4000/1	0.5	50Ω	120A
SK24J	100A/50mA	2000/1	0.5	50Ω	120A
	100A/40mA	2500/1	0.5	50Ω	120A
	100A/33.33mA	3000/1	0.5	50Ω	120A
	100A/25mA	4000/1	0.5	50Ω	120A
	100A/20mA	5000/1	0.5	50Ω	120A
	200A/100mA	2000/1	0.5	50Ω	240A
	200A/80mA	2500/1	0.5	50Ω	240A
	200A/66.67mA	3000/1	0.5	50Ω	240A
	200A/50mA	4000/1	0.5	50Ω	240A
	200A/40mA	5000/1	0.5	50Ω	240A
	300A/100mA	3000/1	0.5	50Ω	360A
	300A/75mA	4000/1	0.5	50Ω	360A
	300A/60mA	5000/1	0.5	50Ω	360A
	400A/100mA	4000/1	0.5	50Ω	480A
	400A/80mA	5000/1	0.5	50Ω	480A
SK36J	100A/100mA	1000/1	0.5	50Ω	120A
	100A/50mA	2000/1	0.5	50Ω	120A

△ Products of SK**J type with the current on secondary side of 5A or 1A are also available. For any order code or parameter not listed in the table, please consult APT Sales or distributor.

Spec. & order code	Rated current ratio	Turns ratio	Accuracy	Load	Maxmium primary current
SK36J	100A/40mA	2500/1	0.5	50Ω	120A
	100A/33.33mA	3000/1	0.5	50Ω	120A
	100A/25mA	4000/1	0.5	50Ω	120A
	100A/20mA	5000/1	0.5	50Ω	120A
	100A/16.67mA	6000/1	0.5	50Ω	120A
	200A/100mA	2000/1	0.5	50Ω	240A
	200A/80mA	2500/1	0.5	50Ω	240A
	200A/66.67mA	3000/1	0.5	50Ω	240A
	200A/50mA	4000/1	0.5	50Ω	240A
	200A/40mA	5000/1	0.5	50Ω	240A
	200A/33.33mA	6000/1	0.5	50Ω	240A
	300A/100mA	3000/1	0.5	50Ω	360A
	300A/75mA	4000/1	0.5	50Ω	360A
	300A/60mA	5000/1	0.5	50Ω	360A
	300A/50mA	6000/1	0.5	50Ω	360A
	400A/100mA	4000/1	0.5	50Ω	480A
	400A/80mA	5000/1	0.5	50Ω	480A
	400A/66.67mA	6000/1	0.5	50Ω	480A
	500A/100mA	5000/1	0.5	50Ω	600A
	500A/83.33mA	6000/1	0.5	50Ω	600A
	600A/100mA	6000/1	0.5	50Ω	720A
SK46J	600A/100mA	6000/1	0.5	50Ω	720A
	600A/75mA	8000/1	0.5	50Ω	720A
	600A/60mA	10000/1	0.5	50Ω	720A
	600A/50mA	12000/1	0.5	50Ω	720A
	800A/100mA	8000/1	0.5	50Ω	960A
	800A/80mA	10000/1	0.5	50Ω	960A
	800A/66.67mA	12000/1	0.5	50Ω	960A

△ Products of SK**J type with the current on secondary side of 5A or 1A are also available. For any order code or parameter not listed in the table, please consult APT Sales or distributor.

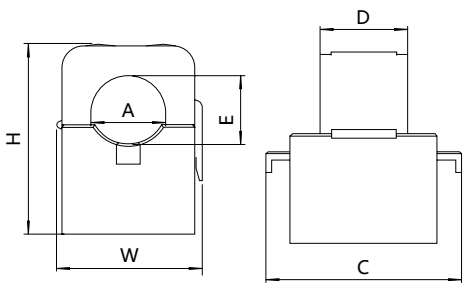
◎ Specifications and dimensions

Unit: mm

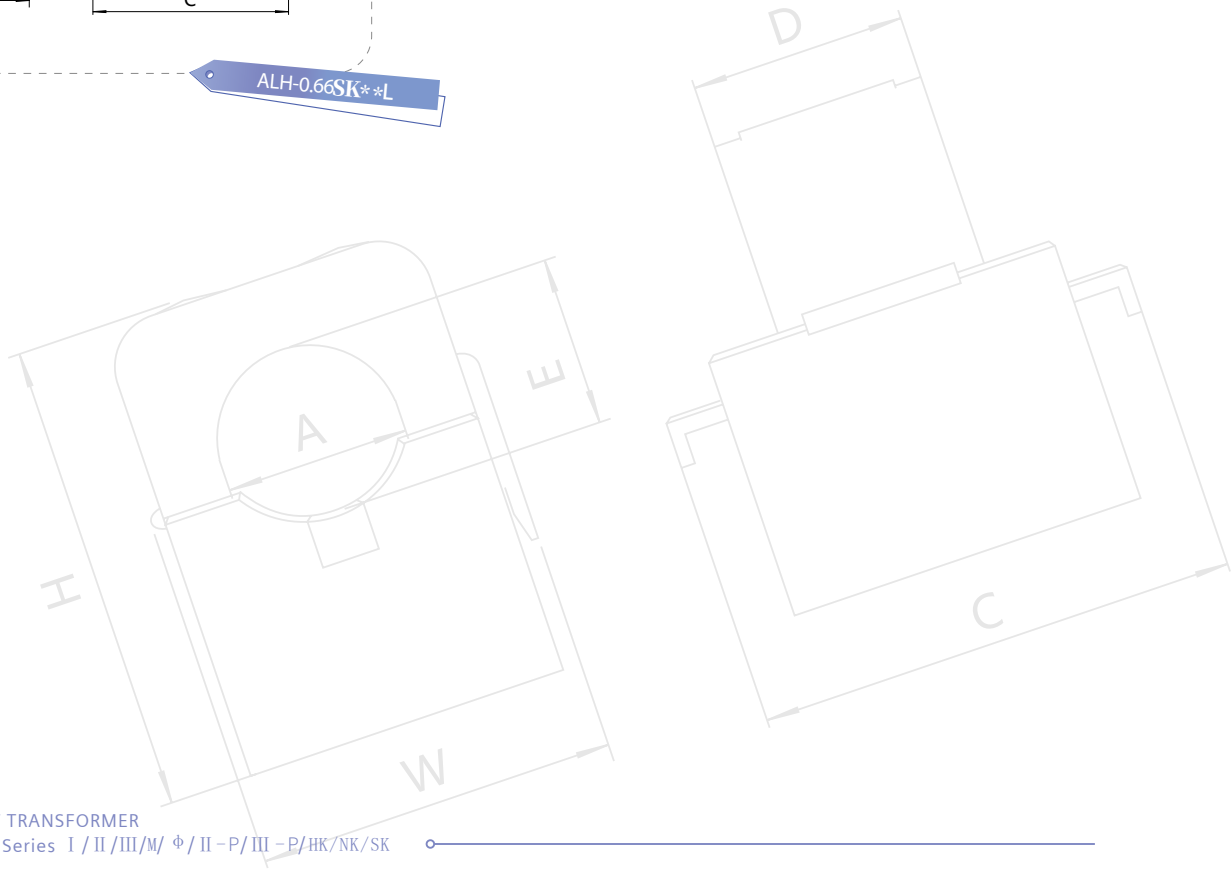
Spec. & order code \ Dimensions	Dimension				Perforation dimension		Mounting method	Built-in lead (1m long)
	W	H	D	C	A	E		
SK06L	21	30	20.5	8.3	6	6.2	Hung on directly	1007 AWG24# In parallel
SK10L	26.5	41	26.7	14.5	10.2	10.7		1015 AWG24# In parallel
SK16L	32	46	42.5	19	16.2	16.5	Hung on directly + bundled by ties	1015 AWG24# In parallel
SK24L	48	66	42	22	24.8	24.2		1015 AWG24# In parallel
SK36L	61.2	83	46.5	21.5	36	36		1015 AWG24# In parallel

NOTE

- If the tolerance is not marked, follow GB/T 1804-2000 – class IT18



ALH-0.66SK**L



◎ Technical parameters comparison table

Spec. & order code	Rated current ratio	Turns ratio	Accuracy	Load	Max current on primary side
SK06L	5A/2.5mA	2000/1	1.0	50Ω	30A
	10A/5mA	2000/1	1.0	50Ω	30A
	20A/10mA	2000/1	1.0	50Ω	30A
SK10L	5A/2.5mA	2000/1	1.0	50Ω	60A
	20A/10mA	2000/1	1.0	50Ω	60A
	50A/50mA	1000/1	1.0	30Ω	60A
	60A/20mA	3000/1	0.5	30Ω	75A
	60A/30mA	2000/1	0.5	30Ω	75A
SK16L	100A/33.33mA	3000/1	0.5	50Ω	120A
	100A/40mA	2500/1	0.5	50Ω	120A
	100A/50mA	2000/1	0.5	50Ω	120A
	200A/40mA	5000/1	0.5	50Ω	240A
	200A/50mA	4000/1	0.5	50Ω	240A
	200A/66.67mA	3000/1	0.5	50Ω	240A
	100A/40mA	2500/1	0.5	50Ω	150A
SK24L	200A/40mA	5000/1	0.5	50Ω	240A
	200A/50mA	4000/1	0.5	50Ω	240A
	200A/66.67mA	3000/1	0.5	50Ω	240A
	400A/40mA	10000/1	0.5	50Ω	480A
	400A/80mA	5000/1	0.5	50Ω	480A
SK36L	300A/100mA	3000/1	0.5	50Ω	360A
	300A/60mA	5000/1	0.5	50Ω	360A
	400A/40mA	10000/1	0.5	50Ω	480A
	500A/50mA	10000/1	0.5	50Ω	600A
	600A/60mA	10000/1	0.5	50Ω	720A

△ Products of SK**J type with the current on secondary side of 5A or 1A are also available. For any order code or parameter not listed in the table, please consult APT Sales or distributor.

◎ Mounting method

A

Bent sheet short bar fixation

A

Bent sheet short bar fixation (HK/NK series)

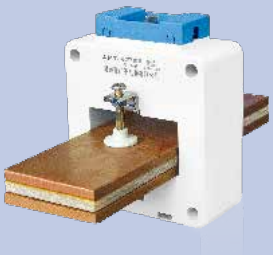
B

Straight sheet long bar fixation

C

Single sheet platen fixation (straight sheet)

D



Single sheet platen fixation (bent sheet)

E

Double sheet platen fixation

F

Guide rail fixation

G

Supporting bottom rail fixation

H

Dead plate fixation

I

Bus fixation

J

Bus fixation

J

Bus fixation (HK/NK series)

◎ Some national typical model projects

National large public buildings

- Shanghai New International Expo Center
- Shanghai maglev train line
- China Millennium Monument in Beijing
- Oriental Pearl TV Tower
- Shanghai Stadium
- Sichuan 703 TV Tower

School, hospital and office building

- Shanghai Maritime University
- Shanghai International Studies University
- National Radio and Television Building
- New Office Building for the Ministry of Foreign Affairs
- Shanghai Ruijin Hospital
- Shanghai Sixth People's Hospital

Power plant, power station and electric utility

- Huaneng Yuhuan Power Plant (4×1000MW)
- Shazhou Power Plant (2×600MW)
- Guodian Changzhou Power Plant (2×600MW)
- Fujian Ningde Power Plant (2×600MW)
- Jiangsu Tianwan Nuclear Power Station
- Daya Bay Nuclear Power Plant
- Sichuan Ertan Power Plant

Airport, port and metro

- Capital International Airport
- Shenyang Taoxian International Airport
- Shanghai Pudong International Airport
- Ningbo Bukchang port
- Nanjing Metro Lines 1 and 2
- Shanghai Pearl Line (Light Rail) Phases 1 and 2
- Shenzhen Metro Line 1

Petroleum, metallurgy and chemistry

- Shanghai Baoshan Iron and Steel Plant
- Shanghai Jinshan Petrochemical
- Wuhan Iron and Steel Plant
- Relocation Project of Shougang Group
- Reconstruction Project of Sichuan Dagang

Others

- Xinjiang Shihezi Project
- Shandong Heavy Machinery Plant
- Shanghai Zhenhua Port Machinery Co., Ltd.
- Workshop for Shanghai Lili Industrial
- Workshop for Guangzhou Perlos/Liteonmobile