ALH-0.66 I Current Transformer Siemens APT

Product Features

The material of ALH-0.66 I current transformer housing is high-strength PC plastic in fully enclosed structure. It is compatible for square and round holes for cable or bus. It shall be normally used for control, protection 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).

Model definition

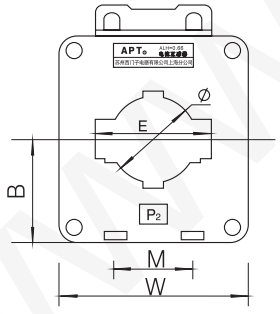
ALH -0.66 □ □ □ □ □

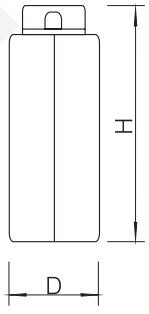
- Cable through number
- Capacity
- Accuracy class
- Current ratio
- Type (see the table below)
- Rated voltage 660V (equivalent to 690V)
- Registration approval model

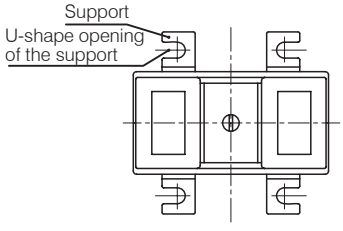
Specifications and dimensions

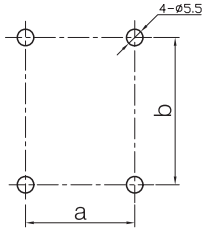
Unit:mm

Dimensions / Specifications and models	External size				Perforation size		Installation size	Installation methods (page 9) Note: "/" refers to the installation method not available						
								A		B		C	D	E
	W	H	D	B	E	∅	M	a	b	a	b	/	/	/
30I	59	78	30	33	30.5	23	31	32.4	50	32.4	44	/		/
30I-I	59	80	45	33.5	30.5	23	31	32.4	58.6	32.4	58.6	/		/
40I	75	97	44	41	42	30.5	45	45	59	44	59		/	/
60I	102	126	46	55	61.5	45	62	/	/	63.3	59		/	/
80I	118	138	45	61	81.5	52	60	/	/	61	59		/	
100I	147	162	45	73	101.5	62	80	/	/	84	59		/	









Technical Data

1 Primary current 5-3000A secondary current 5A,1A
2 Rated voltage AC 660V
3 Rated frequency 50-60Hz
4 Ambient temperature -30 ℃ - +70 ℃ Maximum temperature resistance 120℃
5 Altitude ≤3000m
6 Power frequency withstand voltage 3000V 1min 50Hz (between the housing and the secondary coil)
7 Insulation class E

Technical Data Table

Specifications and models		30I		30I-I		40I		60I		80I		100I	
Available busbar specifications and quantity		30×10 1		30×10 1		40×10 1		60×10 1 60×6 2		80×10 1 60×6 1		100×10 1 80×10 2	
Accuracy class		0.5	1	0.5	1	0.5	1	0.2	0.5	0.2	0.5	0.2	0.5
Rated current ratio	Cable through num.	Rated capacity（VA）											
15/5	5		2.5		2.5		2.5						
20/5	4		2.5		2.5		2.5						
25/5	3		2.5		2.5		2.5						
30/5	3		2.5		2.5		2.5						
40/5	2		2.5		2.5		2.5						
50/5	2		2.5		2.5		2.5						
60/5	2		2.5		2.5		2.5						
75/5	1		2.5		2.5		2.5						
100/5	1		2.5	2.5	5		2.5						
150/5	1	2.5		2.5	5	2.5			2.5				
200/5	1	5		5	10	5			5				
250/5	1	5		5	10	5			5		5		
300/5	1	5		5	10	5			5		5		
400/5	1	5		5	10	5			5		5		
500/5	1					10			10		10		
600/5	1					10			10		10		10
750/5	1					10			10		10		10
800/5	1					10			10		10		10
1000/5	1							15		15		15	
1200/5	1							20		20		20	
1500/5	1							20		20		20	
2000/5	1							40		40		40	
2500/5	1									40		40	
3000/5	1											40	
5/1	3				0.1								
10/1	2				0.1								
15/1	1				0.1								
20/1	1				0.1								
25/1	1				0.1								
30/1	1		0.1	0.1	0.2	0.1							
40/1	1		0.1	0.1	0.4	0.1							
50/1	1	0.2		0.2	0.4	0.2							
60/1	1	0.2		0.2	1	0.2							
75/1	1	0.2		0.2	1	0.2			0.2				
100/1	1	0.2		0.2	2.5	0.2			0.2		0.2		0.2
150/1	1	2.5		2.5	5	2.5			2.5		2.5		1
200/1	1	5		5	10	5			5		5		5
250/1	1	5		5	10	5			5		5		5
300/1	1	5		5	10	5			5		5		5
400/1	1					10			10		10		10
500/1	1					10			10		10		10
600/1	1					10			10		10		10
750/1	1					10			10		10		10
800/1	1					10			10		10		10
1000/1	1					10			10		10		10
1500/1	1							20		20		20	
2000/1	1							20		20		20	
2500/1	1											20	
3000/1	1											20	

Note: The blanks without capacity can be realized by core-through or model not available.

ALH-0.66 Series Current Transformer

How to install?

Fig. A Bent sheet short bar fixation

Fig. B Straight sheet long bar fixation

Fig. C Single sheet platen fixation (straight sheet)

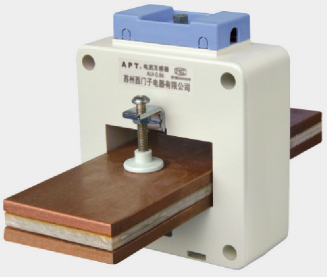


Fig. D Single sheet platen fixation (bent sheet)

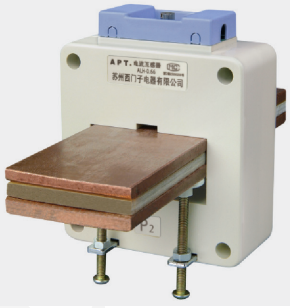


Fig. E Double sheet platen fixation

Fig. F Guide rail fixation

Fig. G Matched bottom rail fixation

Fig. H Dead plate fixation

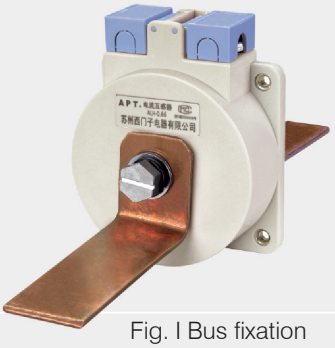


Fig. I Bus fixation

Fig. J Busbar fixation

Installation Caution

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 reliable grounding to avoid insulation breakdown between the primary and the secondary.
3. The current transformer shall be used strictly based on the rated power, the rated transformation ratio and the accuracy class on the nameplate.
4. The primary winding of current transformer and the tested 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 connectors in the center.
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.

Order instruction

1. The current transformer's model, specification, current ratio, accuracy class and the secondary rated capacity shall be specified;
2. Specify the installation methods. (If not specified, the company can provide as per its regulations.)
3. It can be customized for special specifications.

Application project cases

National large public buildings

Shanghai New International Expo Center
Shanghai maglev train line
China Millennium Monument in Beijing
Oriental Pearl TV Station
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