

MSQ


Current Transformer

OPERATION INSTRUCTION

Standards:IEC 61869-2

CNC

Deliver
Power For Better Life

-  Before installing and using this product, please read this manual carefully and pay more attention to safety.

1 General

The MSQ series current transformers are indoor devices used for current and energy measurement and relay protection in AC lines with a rated frequency of 50/60Hz and a rated voltage below 0.66KV.

2 Operating conditions

2.1 The installation altitude of the transformer shall not exceed 1000 meters.

2.2 Environmental temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ and daily average not exceeding 30°C .

2.3 The relative humidity of the air shall not exceed 80%. The installation site of the transformer should be dry, ventilated, and free of corrosive and explosive media.

3 Working condition

3.1 Rated voltage: 0.66kV.

3.2 Rated secondary current: 5A.

3.3 Rated primary current: 5A-6000A

3.4 Rated output: 2.5VA, 5VA, 10VA, 20VA

3.5 Accuracy level: Level 1, 0.5, 0.2, 0.2S, 0.5S, and 3.

3.6 Insulation performance: The primary winding to secondary winding and ground, as well as the secondary winding to ground, can withstand a power frequency withstand voltage of 3kV for 1 minute.

3.7 Installation type: busbar or fixed plate

3.8 Standards: IEC 61869-2

4 Installation, use and maintenance

4.1 The transformer can be installed vertically or horizontally, and the S2 terminal must be grounded during installation.

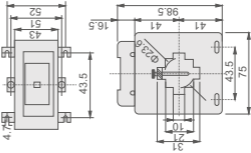
4.2 The primary current of the transformer should flow from P1 to the other end, and the secondary current flows from S1 through the external circuit to S2. The transformer is depolarized, and the cross-sectional area of the secondary wire connected to the transformer is recommended not to be less than 2.5mm^2 .

4.3 When the transformer is running, it is strictly forbidden to open the secondary winding to prevent high voltage from causing damage to equipment and people.

4.4 The transformer should be checked periodically, and the unqualified products should be repaired or replaced.


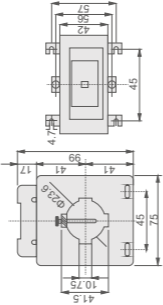
4.5 If there are quality issues with the product within 18 months of after-sales service, it can be replaced with the manufacturer;


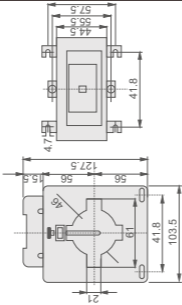
5 Technical data

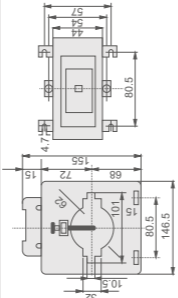
Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class 0.5	class 1.0		
30/5		1	1	 <p>Technical drawing showing top and side views of the transformer with dimensions in mm:</p> <ul style="list-style-type: none"> Top view dimensions: 43, 51, 52, 43.5, 4.7, 5 Side view dimensions: 16.5, 98.5, 41, 41, 75, 43.5, 31, 10, 21, 023.6
40/5		1	1	
50/5		1	1	
60/5	1	1	1	
75/5	1.5	1.5	1	
80/5	2.5	2.5	1	
100/5	2.5	5	1	
150/5	5	5-10	1	
200/5	5	5-10	1	
250/5	5	5-10	1	
300/5	5	5-10	1	



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Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class	class		
100/5	2.5	2.5	1	 <p>MSQ-40</p> 
150/5	3	3	1	
200/5	5	5	1	
250/5	5	5	1	
300/5	5	5	1	
400/5	5	5	1	
500/5	5	5	1	

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class	class		
250/5	5	5	1	 <p>MSQ-60</p> 
300/5	5	5	1	
400/5	5	5	1	
500/5	5	5	1	
600/5	10	10	1	
750/5	10	10	1	
800/5	10	10	1	
1000/5	15	15	1	

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)	
	class	class			
1500/5	15	1.0	15		
1600/5	15	1.0	1		
2000/5	15	1.0	1		
2250/5	15	1.0	1		
2500/5	15	1.0	1		
3000/5	15	1.0	1		

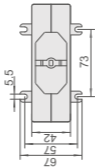
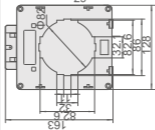



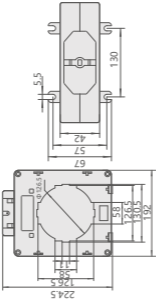
MSQ-100

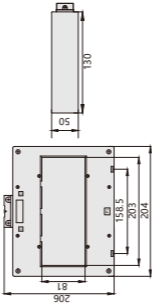
Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class	class		
1000/5	0.5	1.0	1	
	10	10		
1250/5	15	10	1	
	15	15		
1600/5	15	15	1	
	20	20		
2000/5	20	20	1	
	20	20		
2500/5	20	20	1	
	20	20		



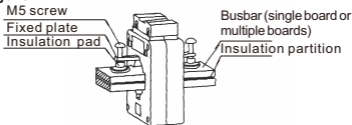
MSQ-85



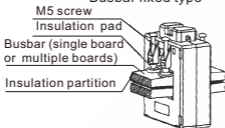
Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class	class		
1500/5	15	15	1	 <p>MSQ-125</p> 
	15	15	1	
1600/5	15	15	1	
	20	20	1	
2000/5	20	20	1	
	20	20	1	
2500/5	20	20	1	
	20	20	1	
3000/5	20	20	1	
	20	20	1	
3200/5	20	20	1	
	20	20	1	
4000/5	20	20	1	
	20	20	1	

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class	class		
2000/5	20	20	1	 <p>MSQ-200</p>
2500/5	20	20	1	
3000/5	20	20	1	
3200/5	20	20	1	
4000/5	20	20	1	
5000/5	20	20	1	
6000/5	20	20	1	

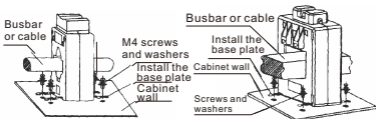
6 The installation method is shown in the attached figure



Busbar fixed type



Busbar fixed type



Chassis mount

Chassis mount

Current transformer installation diagram

Note: Special requirements can be negotiated with the manufacturer for customization

7 The company promises that within 24 months from the production date of the product, if the product is damaged or cannot be used normally due to manufacturing quality issues, the company is responsible for free repair or replacement, provided that the user complies with the usage and storage conditions and the product seal is intact. If it exceeds the warranty period, it needs to be repaired for a fee. However, if damage is caused by the following circumstances, even within the warranty period, it shall be repaired for a fee:

- (1) Improper use, maintenance, or storage;
- (2) Self modification or improper maintenance;
- (3) Due to falling or damage during installation after purchase;
- (4) Force majeure such as earthquakes, fires, lightning strikes, abnormal voltages, and secondary disasters.



CERTIFICATE

Product Model: MSQ

Standards: IEC 61869-2

Inspector : **CNC003**

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

CNC
MSQ

CNC ELECTRIC

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