DT86/DS86/DX86型

Three-phase energy meter

1.Application

D86 3-phase energy meter (including DT862 type 3-phase 4-line active energy meter,DS862 type 3-phase 3-line active meter,DX862 and DX864 3-phase 4-line 90° reactive meter, active and reactive meter DX865,DX863 3-phase 3-line 60° reactive meter) Electromechanical AC energy meter,for measuring the active and reactive energy in the rated frequency 50Hz 3-phase 3-line or 4-line power grid.

Meter is applied to install indoors, temperature range -20°C~+50°C, relative humidity 25%~80% and shall have no corrosion gas.

This product conforms to standard of GT/T717215.311-2008.

2. Main technical parameter

Model No.	Type	Accuracy	Reference voltage Un	Rated current In	Constant
DS862 (2 level)	3-phase 3-line active meter	2 level	3×380V	3×1.5(6)A	take constant on the mark as standard
				3×3(6)A	
				3×5(20)A	
				3×10(40)A	
				3×15(60)A	
				3×20(80)A	
				3×30(100)A	
			3×100V	3×1.5(6)A	
				3×3(6)A	
DT862 DT862F	3-phase 4-line active meter	2 level	3×57.7/100V	3×1.5(6)A	
				3×3(6)A	
			3×220/380V	3×1.5(6)A	
				3×3(6)A	
				3×5(20)A	
				3×10(40)A	
				3×15(60)A	
				3×20(80)A	
				3×30(100)A	

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DX863(2 Level) DX865(3 Level)	3-phase 3-line reactive meter	2 level 3 level	3×380V	3×1.5(6)A	take constant on the mark as standard
				3×3(6)A	
			3×100V	3×1.5(6)A	
				3×3(6)A	
DX862 DX864	3-phase 4-line reactive meter	3 level 2 level	3×380V	3×1.5(6)A	
				3×3(6)A	
			3×100V	3×1.5(6)A	
				3×3(6)A	

balance load

load current	power factor	basic error limit %	
		2 level	3 level
0.05Ib	Cos φ＝1.0	±2.5	
0.1Ib-Imax		±2.0	
0.1Ib	CosΦ=0.5(inductive)	±2.5	
0.2Ib-Imax		±2.0	
0.1Ib	SinΦ=1.0(inductive)		±3.0
0.2Ib-Imax			±3.0
0.5Ib-Imax	SinΦ=0.5(inductive)		±3.0

Unbalance load

load current	power factor	basic error limit %	
		2 level	3 level
0.2Ib-Ib	Cos φ＝1.0	±3.0	
＞Ib-Imax	Cos φ＝1.0	±3.0	
Ib	CosΦ=0.5(inductive)	±3.0	
0.2Ib-Ib	SinΦ=1.0(inductive)		±3.0
Ib	SinΦ=0.5(inductive)		±3.0

3. Operate principle

This product has Double Gem double disc structure, separated iron core. And the voltage component is Semi-sealed insert structure has the advantages of stable and easy- maintains. When the current,voltage component produce one moving magnetic field, make the rotating speed of the aluminum plate in the magnetic field is proportional to the load current,then to measure the energy.

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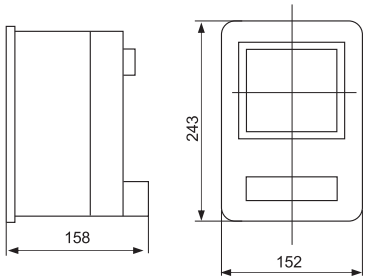
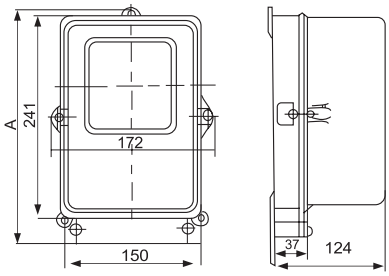
4.Shape and install dimension

◆ shape



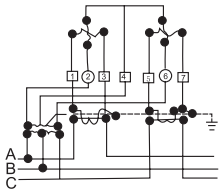
insert type



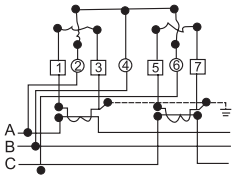
Imax>40	279
Imax ≤ 40A	273
Specification A	A

direct type

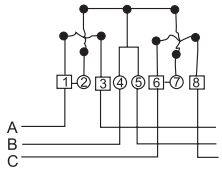
◆ wire diagram



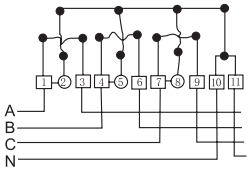
through universal current,voltage transformer



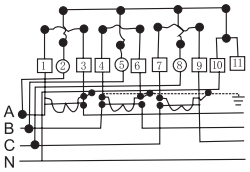
through universal current transformer



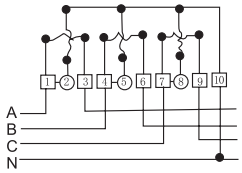
direct type



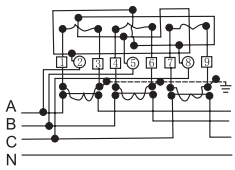
Imax ≤40A direct type



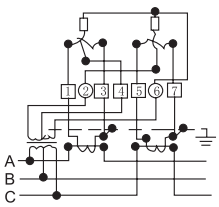
through universal current transformer



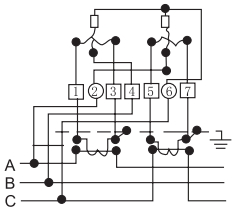
Imax >40A direct type



through universal current transformer



through universal current,voltage transformer



through universal current transformer