



HLD06

Single Elec. Watt-Hour Meter



Static Single Electromechanical Watt-Hour Meter

General:

The HLD06 single-phase meter is a socket type meter designed to meet the latest ANSI C 12.1 and ANSI 12.10 Standards. The meter measures active energy in single-phase two wire or three wire alternation current power grids. Connection is FM 1S and FM 2S. It is a reliable long service life meter. The average service life (MTTF) is 30 years and the maximum current to 200A. Both cyclometer-type and pointer registers are available. In addition, it can be equipped with an ARM module.

Construction

Meter Case

The socket type meter case complies iwth ANSI C 12.7 - 1993 and meets the protection requirements set by ANSI C 12.10 - 1993.

Driving Element

The driving element consists of a voltage element and a current element, both of which are fixed on the aluminum alloy frame. It has a load curve compensation mechanism and an inductive load adjustment mechanism.

Rotor

The worm is an undetachable part of the shaft so that the mesh between the worm and shaft is improved. Both ends of the shaft are embedded with a praphite bearing to ensure the long service life of the meter.

Upper Bearing

The upper bearing consists of a guide pina dn an aluminum sleeve.

Lower Bearing

The lover bearing consists of a guide pin and a brass sleeve, and is fixed into the meter frame by one screw.

Braking Element

Two magnet cubes are die-casted into the meter frame by aluminum alloy. It has a temperature compensation plate.

Register

Both pointer and cyclometer registers are available.



Technical Data

Meter Type		HLD06			
Applicable standards		ANSI C12.1 and ANSI C12.10			
Class		10	20	100	200
Test Current I_b A		2.5	2.5	15	30
Meter Constant r/k Wh		1400	1200	360	90
Average Service Life (MTTF)		30 Years			
Overload Capacity	% I_b	667			
	Heat Capacity	$I_b + I_{max}$			
	Short time over current	7000A short circuit 0.1s			
Reference voltage U_n V		110V, 120V, 220V, 240V, 277V, and 480V			
Reference Frequency f_n Hz		60			
Non running with no load		0.9.....1/1 U_n			
Starting Current		1% I_b			
Rated load speed at I_b		11r/min			
Power losses in voltage circuit at 60 Hz		<1W / 5VA			
Power losses in current circuit at I_b		<0.5VA			
AC voltage test at 60Hz, 1 min		2.5k			
Impulse voltage test 1.2/50ms		<6.5kV			
Rated load torque at unity PF, I_b		>0.5VA			
Weight of rotor		26 g			
Weight of meter		Approx 1.7 kg			
Main case		Bakelite base/glass (PC) cover			
Register		Pointer or cyclometer type			
Option		Reverse running stopper, pulse sampling device			

Typical Connection Diagram



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