

Three-phase static electricity meters **AMT B0x-SA4T** are determined for single-rate measurement of active energy in direct or indirect connection displaying value on mechanical register with stepping motor. In the case of CT (current transformer) operated meters (x/5A) it is necessary value of register to multiply by the current transformer ratio.

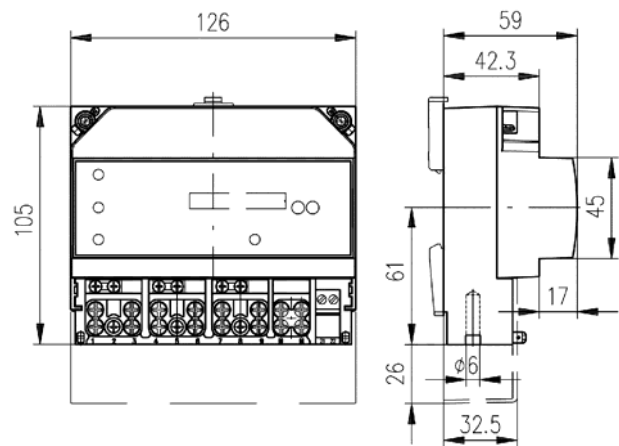
The test pulses indicated by red LED are proportional to the consumed energy. Measurement „using an unidirectional mechanical register“ provides positive energy measurement even if the reverse energy flow.



Highlights

- Meter case width 7M (1M = 18 mm);
- Intended for indoor mounting on DIN rail (35 mm);
- Passive transmitting pulse SO output for remote transmission;
- Indication of voltage presence, reverse energy flow and phase sequence;
- Complies with IEC/EN 62052-11 + IEC/EN 62053-21; EN 50470-3 and with requirements of European Parliament and EC Directive 2014/32/EU;
- Supplied initially verified for the billing measurement of active energy.

Dimensional drawing



Technical data

Accuracy class	B (MID), 1
Reference voltage [V]	3 x 230/400 (-30,+15%)
Reference frequency [Hz]	50 or 60
Reference current I_{ref} [A] direct connection	5
Nominal current I_n [A] indirect connection	5
Transient current I_{tr} [A] direct / indirect connection	0,5 / 0,25
Starting current I_{st} [A] direct / indirect connection	≤ 0,02 / 0,01
Minimal current I_{min} [A] direct / indirect connection	0,25 / 0,05
Maximal current I_{max} [A] direct / indirect connection	65 / 10
Power consumption - voltage circuit [VA/W]	≤ 7,5 / 0,65
Power consumption - current circuit [VA]	≤ 0,1
Impulse constant for test output k_{TO} [imp/kWh]	1600
Impulse constant for impulse output k_{SO} [imp/kWh]	1600
Transistor output SO	24 V / 30 mA
Operating temperature	- 40 °C up to + 70 °C
Mean temperature coefficient [%/K]	≤ 0,04
Terminals current ; voltage ; auxiliary [mm]	∅ 6 ; ∅ 3 ; ∅ 3
Degree of protection	IP51
Meter dimensions w x h/h' x d [mm]	126 x 105/131 x 59
Weight [kg]	≤ 0,55

Marking of meters

AMT B0x₅-SA4T

AMT B0 type designation

x₅ overload capacity: **3** – 200 %, **C** – 1300 %

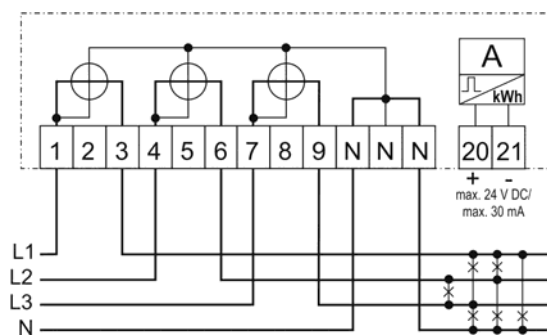
S basic version: electricity meter with mechanical register

A measured energy: active

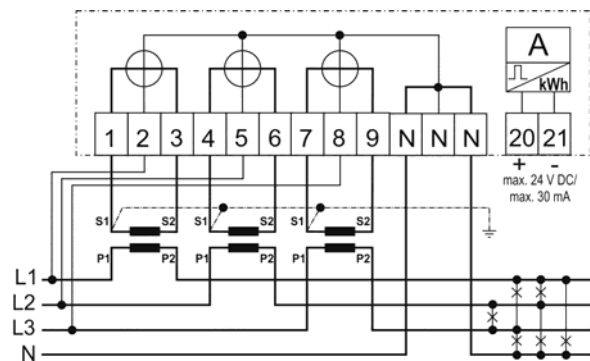
4 network connection: 3-phase 4-wire

T current converter: transformer

Connection diagrams - examples



AMT B0C-SA4T
(direct connection)



AMT B03-SA4T
(indirect connection)

Ordering data

- Type and version marking;
- Reference voltage and current range $I_{ref}/I_n, I_{max}$;
- Reference frequency;
- Number of units;
- Required delivery terms.