

SM01 series single phase Din-rail kWh meter

Advantage

- ◇ High accuracy with micro-electronic, integrated circuit, digital & SMT technique
- ◇ More compact of standard modular design
- ◇ Standard Din-rail installation 35mm DIN EN50022
- ◇ Blue backlight for LCD type
- ◇ Industrial design patent protected
- ◇ CE, RoHS, REACH certified

Parameter

- ◇ Rated voltage: 230V or 110V +/-30% AC
- ◇ Rated current: 5(10)A, 5(32)A, 5(40), 5(45)A,5(50)A
- ◇ Accuracy class: 1.0
- ◇ Standard: IEC/EN62052-11, IEC/EN62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Impulse constant: 1000imp/kWh
- ◇ Display mode: LCD 5+2= 99999.99kWh / Blue backlight
Counter 5+1=99999.9kWh
- ◇ Power consumption: ≤8VA ≤0.4W
- ◇ Starting current: 0.004Ib
- ◇ Temperature range: -20 ~ 65°C.
- ◇ Flashing red: Impulse indication
- ◇ Average humidity value of year: 75%
- ◇ Maximal value: 95%
- ◇ Impulse connection: Voltage 12~27V, current≤27mA, max length of lead: 20m
Impulse width=90ms, connect to terminal 20&21
- ◇ Limits of values: max 60VDC, max 50mA



SM01-M



SM01-L

Order code

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM01-M	Class 1	230V	5(10)	0.4%Ib	direct type
SM01-M	Class 1	230V	5(20)	0.4%Ib	direct type
SM01-M	Class 1	230V	5(32)	0.4%Ib	direct type
SM01-M	Class 1	230V	5(40)	0.4%Ib	direct type
SM01-M	Class 1	230V	5(45)	0.4%Ib	direct type
SM01-M	Class 1	230V	5(50)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(10)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(20)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(32)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(40)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(45)	0.4%Ib	direct type
SM01-M	Class 1	110V	5(50)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(10)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(20)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(32)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(40)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(45)	0.4%Ib	direct type
SM01-L	Class 1	230V	5(50)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(10)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(20)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(32)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(40)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(45)	0.4%Ib	direct type
SM01-L	Class 1	110V	5(50)	0.4%Ib	direct type

Notice: Please mark detailed specification when customers require other specification.

SM01B series single phase Din-rail kWh meter

Advantage

- ◇ Higher accuracy with micro-electronic, integrated circuit, digital & SMT technique
- ◇ More compact of standard modular design
- ◇ Standard Din-rail installation 35mm DIN EN50022
- ◇ Blue backlight for LCD type
- ◇ Industrial design patent protected
- ◇ CE, RoHS, REACH certified



SM01B-M



SM01B-L

Parameter

- ◇ Rated voltage: 230V or 110V +/-30% AC
- ◇ Rated current: 5(80)A, 5(100)A, 10(80)A, 10(100) A
- ◇ Accuracy: 1.0
- ◇ Standard: IEC62052-11, IEC62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Impulse constant: 1000imp/kWh
- ◇ Display: LCD 5+1 digits=99999.9kWh / blue backlight
Counter 5+1 digits=99999.9kWh
- ◇ Power consumption: ≤8VA ≤0.4W
- ◇ Starting current: 0.004Ib
- ◇ Temperature range: -20 - 65℃
- ◇ Flashing red: Impulse indication
- ◇ Average humidity value of year: 75%,
- ◇ Maximal value: 95%;
- ◇ Impulse connection: According with "SO" Din-rail43864 standard, (27V, 27mA), max length of lead: 20m
Impulse width=90ms, connect to terminal 20 & 21
- ◇ Limits of values: max 60VDC, max 50mA

Order code

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM01B-M	Class 1	230V	5(80)	0.4%Ib	direct type
SM01B-M	Class 1	230V	5(100)	0.4%Ib	direct type
SM01B-M	Class 1	230V	10(80)	0.4%Ib	direct type
SM01B-M	Class 1	230V	10(100)	0.4%Ib	direct type
SM01B-M	Class 1	110V	5(80)	0.4%Ib	direct type
SM01B-M	Class 1	110V	5(100)	0.4%Ib	direct type
SM01B-M	Class 1	110V	10(80)	0.4%Ib	direct type
SM01B-M	Class 1	110V	10(100)	0.4%Ib	direct type
SM01B-L	Class 1	230V	5(80)	0.4%Ib	direct type
SM01B-L	Class 1	230V	5(100)	0.4%Ib	direct type
SM01B-L	Class 1	230V	10(80)	0.4%Ib	direct type
SM01B-L	Class 1	230V	10(100)	0.4%Ib	direct type
SM01B-L	Class 1	110V	5(80)	0.4%Ib	direct type
SM01B-L	Class 1	110V	5(100)	0.4%Ib	direct type
SM01B-L	Class 1	110V	10(80)	0.4%Ib	direct type
SM01B-L	Class 1	110V	10(100)	0.4%Ib	direct type

Notice: Please mark detailed specification when customers require other specification.

SM02 series single phase Din-rail kWh meter

Advantage

- ◇ Higher accuracy with micro-electronic, integrated circuit, digital & SMT technique
- ◇ More compact of standard modular design
- ◇ Standard Din-rail installation 35mm DIN EN50022
- ◇ Blue backlight for LCD type
- ◇ Industrial design patent protected
- ◇ CE, RoHS, REACH certified

Parameter

- ◇ Rated voltage: 230V or 110V +/-30% AC
- ◇ Rated current: 5(80)A, 5(100)A, 10(80)A, 10(100) A
- ◇ Accuracy: 1.0
- ◇ Standard: IEC62052-11, IEC62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Impulse constant : 1000imp/kWh
- ◇ Display: LCD 5+1 digits=99999.9kWh / blue backlight
Counter 5+1 digits=99999.9kWh
- ◇ Power consumption: $\leq 8VA$ $\leq 0.4W$
- ◇ Starting current: 0.004Ib
- ◇ Temperature range: -20 ~ 65°C
- ◇ Flashing red: Impulse indication
- ◇ Average humidity value of year: 75%,
- ◇ Maximal value: 95%:
- ◇ Impulse connection: According with "SO" Din-rail43864 standard, (27V, 27mA), max length of lead: 20m
Impulse width=90ms, connect to terminal 20 & 21
- ◇ Limits of values: max 60VDC, max 50mA



SM02-M



SM02-L

Order code

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM02-M	Class 1	230V	5(80)	0.4%Ib	direct type
SM02-M	Class 1	230V	5(100)	0.4%Ib	direct type
SM02-M	Class 1	230V	10(80)	0.4%Ib	direct type
SM02-M	Class 1	230V	10(100)	0.4%Ib	direct type
SM02-M	Class 1	110V	5(80)	0.4%Ib	direct type
SM02-M	Class 1	110V	5(100)	0.4%Ib	direct type
SM02-M	Class 1	110V	10(80)	0.4%Ib	direct type
SM02-M	Class 1	110V	10(100)	0.4%Ib	direct type
SM02-L	Class 1	230V	5(80)	0.4%Ib	direct type
SM02-L	Class 1	230V	5(100)	0.4%Ib	direct type
SM02-L	Class 1	230V	10(80)	0.4%Ib	direct type
SM02-L	Class 1	230V	10(100)	0.4%Ib	direct type
SM02-L	Class 1	110V	5(80)	0.4%Ib	direct type
SM02-L	Class 1	110V	5(100)	0.4%Ib	direct type
SM02-L	Class 1	110V	10(80)	0.4%Ib	direct type
SM02-L	Class 1	110V	10(100)	0.4%Ib	direct type

Notice: Please mark detailed specification when customers require other specification.

SM03 series three phase Din-rail modular kWh meter

Parameter



SM03-M

- ◇ Rated voltage: 3x230/400V, 3x110/277V AC
- ◇ Rated current: 1.5(6)A, 5(80)A, 5(100)A, 5(80)A, 5(100)A
- ◇ Ultra voltage: 0.8-1.15 voltage rating
- ◇ Reference voltage: 0.9-1.1 voltage rating
- ◇ Accuracy class: 1.0
- ◇ Standard: IEC/EN62052-11, IEC/EN62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Display mode: LCD 6+1 = 999999.9kWh / blue backlight
Counter 6+1 = 999999.9kWh
- ◇ Impulse constant: 800imp/kWh
- ◇ Power consumption: ≤2W, 10VA



SM03-L

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-M	Class 1	3x230/400V	1.5(6)	0.4%Ib	direct type
SM03-M	Class 1	3x230/400V	5(40)	0.4%Ib	direct type
SM03-M	Class 1	3x230/400V	5(100)	0.4%Ib	direct type
SM03-M	Class 1	3x230/400V	10(50)	0.4%Ib	direct type
SM03-M	Class 1	3x230/400V	10(100)	0.4%Ib	direct type
SM03-M	Class 1	3x110/277V	1.5(6)	0.4%Ib	direct type
SM03-M	Class 1	3x110/277V	5(40)	0.4%Ib	direct type
SM03-M	Class 1	3x110/277V	5(100)	0.4%Ib	direct type
SM03-M	Class 1	3x110/277V	10(50)	0.4%Ib	direct type
SM03-M	Class 1	3x110/277V	10(100)	0.4%Ib	direct type
SM03-L	Class 1	3x230/400V	1.5(6)	0.4%Ib	direct type
SM03-L	Class 1	3x230/400V	5(40)	0.4%Ib	direct type
SM03-L	Class 1	3x230/400V	5(100)	0.4%Ib	direct type
SM03-L	Class 1	3x230/400V	10(50)	0.4%Ib	direct type
SM03-L	Class 1	3x230/400V	10(100)	0.4%Ib	direct type
SM03-L	Class 1	3x110/277V	1.5(6)	0.4%Ib	direct type
SM03-L	Class 1	3x110/277V	5(40)	0.4%Ib	direct type
SM03-L	Class 1	3x110/277V	5(100)	0.4%Ib	direct type
SM03-L	Class 1	3x110/277V	10(50)	0.4%Ib	direct type
SM03-L	Class 1	3x110/277V	10(100)	0.4%Ib	direct type

SM03-H series three phase Din-rail modular kWh meter

Parameter



SM03-H

- ◇ Rated voltage: 3x230/400V, 3x110/277V AC
- ◇ Rated current: 1.5(6)A with CT function
- ◇ Ultra voltage: 0.8-1.15 voltage rating
- ◇ Reference voltage: 0.9-1.1 voltage rating
- ◇ Accuracy class: 1.0
- ◇ Standard: IEC/EN62052-11, IEC/EN62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Display mode: LCD 6+1 = 999999.9kWh / blue backlight
Counter 6+1 = 999999.9kWh
- ◇ Impulse constant: 800imp/kWh
- ◇ Power consumption: ≤2W, 10VA

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-H	Class 1	3x230/400V	1.5(6)	0.4%Ib	CT function
SM03-H	Class 1	3x110/277V	1.5(6)	0.4%Ib	CT function

Notice: Please mark detailed specification when customers require other specification.

SM03-TH three phase Din-rail modular kWh meter

Parameter



SM03-TH

- ◇ Rated voltage: 3x230/400V, 3x110/277V AC
- ◇ Rated current: 1.5(6)A with CT function
- ◇ Ultra voltage: 0.8-1.15 voltage rating
- ◇ Reference voltage: 0.9-1.1 voltage rating
- ◇ Accuracy class: 1.0
- ◇ Standard: IEC/EN62052-11, IEC/EN62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Display mode: LCD 6+1 = 999999.9kWh / blue backlight
Counter 6+1 = 999999.9kWh
- ◇ Impulse constant: 800imp/kWh
- ◇ Power consumption: ≤2W, 10VA

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-TH	Class 1	3x230/400V	1.5(6)	0.4%Ib	CT function
SM03-TH	Class 1	3x110/277V	1.5(6)	0.4%Ib	CT function

SM03-Z three phase Din-rail modular kWh meter

Parameter



SM03-Z

- ◇ Rated voltage: 3x230/400V, 3x110/277V AC
- ◇ Rated current: 1.5(6)A, 5(30)A, 5(80)A, 10(50)A, 10(80)A
- ◇ Ultra voltage: 0.8-1.15 voltage rating
- ◇ Reference voltage: 0.9-1.1 voltage rating
- ◇ Accuracy class: 1.0
- ◇ Standard: IEC/EN62052-11, IEC/EN62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Display mode: LCD 6+1 = 999999.9kWh / blue backlight
Counter 6+1 = 999999.9kWh
- ◇ Impulse constant: 800imp/kWh
- ◇ Power consumption: ≤2W, 10VA

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-Z	Class 1	3x230/400V	1.5(6)	0.4%Ib	direct type
SM03-Z	Class 1	3x230/400V	5(30)	0.4%Ib	direct type
SM03-Z	Class 1	3x230/400V	5(80)	0.4%Ib	direct type
SM03-Z	Class 1	3x230/400V	10(50)	0.4%Ib	direct type
SM03-Z	Class 1	3x230/400V	10(80)	0.4%Ib	direct type
SM03-Z	Class 1	3x110/277V	1.5(6)	0.4%Ib	direct type
SM03-Z	Class 1	3x110/277V	5(30)	0.4%Ib	direct type
SM03-Z	Class 1	3x110/277V	5(80)	0.4%Ib	direct type
SM03-Z	Class 1	3x110/277V	10(50)	0.4%Ib	direct type
SM03-Z	Class 1	3x110/277V	10(80)	0.4%Ib	direct type

Notice: Please mark detailed specification when customers require other specification.

SM02B-D single phase Din-rail multi-tariff kWh meter

Parameter



SM02B-D

- ◇ Rated voltage: 230V or 110V +/-30% AC
- ◇ Rated current: 5(30)A, 5(80)A, 10(80)A
- ◇ Accuracy: 1.0
- ◇ Standard: IEC62052-11, IEC62053-21
- ◇ Rated frequency: 50/60Hz
- ◇ Impulse constant: 1000imp/kWh
- ◇ Display: LCD 5+1 digits=99999.9kWh / blue backlight
Counter 5+1 digits=99999.9kWh
- ◇ Power consumption: ≤8VA ≤0.4W
- ◇ Starting current: 0.004Ib
- ◇ Temperature range: -20 ~ 65°C
- ◇ Flashing red: Impulse indication
- ◇ Average humidity value of year: 75%,
- ◇ Maximal value: 95%
- ◇ Impulse connection: According with "SO" Din-rail43864 standard, (27V, 27mA), max length of lead: 20m
Impulse width=90ms, connect to terminal 20 & 21
- ◇ Limits of values: max 60VDC, max 50mA

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM02B-D	Class 1	230V	5(30)	0.4%Ib	direct type
SM02B-D	Class 1	230V	5(80)	0.4%Ib	direct type
SM02B-D	Class 1	230V	10(80)	0.4%Ib	direct type
SM02B-D	Class 1	110V	5(30)	0.4%Ib	direct type
SM02B-D	Class 1	110V	5(80)	0.4%Ib	direct type
SM02B-D	Class 1	110V	10(80)	0.4%Ib	direct type

SM03-S three phase Din-rail double-tariff kWh meter



SM03-S

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-S	Class 1	3x230/400V	5(30)	0.4%Ib	direct type
SM03-S	Class 1	3x230/400V	5(80)	0.4%Ib	direct type
SM03-S	Class 1	3x230/400V	5(100)	0.4%Ib	direct type
SM03-S	Class 1	3x230/400V	10(50)	0.4%Ib	direct type
SM03-S	Class 1	3x230/400V	10(100)	0.4%Ib	direct type
SM03-S	Class 1	3x110/277V	5(30)	0.4%Ib	direct type
SM03-S	Class 1	3x110/277V	5(80)	0.4%Ib	direct type
SM03-S	Class 1	3x110/277V	5(100)	0.4%Ib	direct type
SM03-S	Class 1	3x110/277V	10(50)	0.4%Ib	direct type
SM03-S	Class 1	3x110/277V	10(100)	0.4%Ib	direct type

SM03-OH three phase Din-rail modular kWh meter



SM03-OH

Type	Accuracy	Rated voltage (V)	Rated current (A)	Starting current	Remark
SM03-OH	Class 1	3x230/400V	1.5(6)	0.4%Ib	CT function
SM03-OH	Class 1	3x110/277V	1.5(6)	0.4%Ib	CT function

Notice: Please mark detailed specification when customers require other specification.