



固體電子有限公司 Solitronics Engineering Ltd.

2202, Perfect Ind. Bldg., 31 Tai Yau St., Kowloon, Hong Kong S.A.R., China

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Analogue & Digital Panel Meters

Date:

7TH July 2005

Group

APM-DPM Series

Part Number:

APM-XXX-XX; APM-D1-XXX-XX; DPM-D1-XXX-XX; DPM-XX

Data Sheet:

SEL-APM-DPM-01

96x96 & 72x72mm APM ; DIN-Rail Mount APM & DPM; 96x48, 96x96 & 72x72 DPM

APM Series analog panel meter

Conform to IEC51, enclosure in self-extinguishing plastic,

Operating temperature: -25°C to + 45°C

Storage temperature: -40°C to + 70°C

Class ≤ 1.5

Scale 90° (240° scale on request)

Test voltage: 2 kV, 50HZ, 1min

Size: 96X96, 72X72(48X48 on request)

APM Series AC ammeter



050 11

Moving iron instrument, overload withstand capability: 2XIn

Accuracy: class 1.5

Specifications: 0.1...100A AC for direct measurement,

10A...10KA via external current transformer with secondary current 5A

Cat. nos.	Cat. nos.	Description	Pack/Carton qty.
96X96	72X72		
050 01	050 11	5A	100
050 02	050 12	10A	100
050 03	050 13	25A	100
050 04	050 14	50A	100
050 05	050 16	-/5A, CT connection	100

APM Series AC voltmeter



050 25

Moving iron instrument, overload withstand capability: 2XIn
Accuracy: class 1.5

Specifications:

30V, 50V, 75V, 100V, 120V, 150V, 200V, 250V, 400V, 450V, 500V, 600V,

for 450-450KV, meter can use potential transformer with secondary voltage 100V

Cat. nos.	Cat. nos.	Description	Pack/Carton qty.
96X96	72X72		
050 21	050 31	15V	100
050 22	050 32	30V	100
050 23	050 33	60V	100
050 24	050 34	300V	100
050 25	050 35	500V	100

APM Series DC ammeter



050 45

Moving coil instrument

Accuracy: class 1.5

Specifications: 100 μA, 500 μA, 1mA---500mA,

1---100A for direct

10A---10KA use external 75mV,

65mV or 45mV shunt

Cat. nos.	Cat. nos.	Description	Pack/Carton qty.
96X96	72X72		
050 41	050 51	5A	100
050 42	050 52	10A	100
050 43	050 53	25A	100
050 44	050 54	50A	100
050 45	050 55	---A/60mV, for shunt	100



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APM Series DC voltmeter



050 64

Moving coil instrument

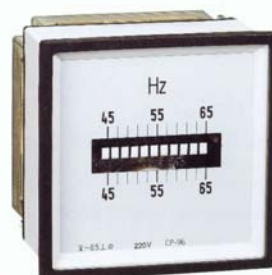
Accuracy: class 1.5

Specifications: 3...600V direct, for over 450V using external resistor(rated current 5mA)

Cat. nos.	Cat. nos.	Description	Pack/Cartron qty.
96X96	72X72		
050 61	050 71	15V	100
050 62	050 72	30V	100
050 63	050 73	60V	100
050 64	050 74	300V	100
050 65	050 75	500V	100

Cat. nos.	Description	Pack/Cartron qty.
96X96		
050 81	45~65HZ, 230V	100

APM Series reed type frequency meter



050 82

APM Series pointer frequency meter



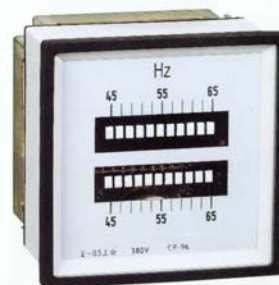
050 81

Moving coil instrument

Accuracy: class 1.0

Voltage: 50V, 100V, 220V, 380V, 415V, 440V

Specifications: 45~55HZ, 45~65HZ, 55~65HZ, 47~53HZ, 57~63HZ, 44~56HZ, 54~66HZ, 350~450HZ, 450~550HZ, 450~650HZ, 550~660HZ



050 83

Model: one row and two row

Accuracy: class 1.0

Voltage: 50V, 100V, 220V, 380V, 415V, 440V

Specifications: 45~55HZ, 45~65HZ, 55~65HZ, 47~53HZ, 57~63HZ, 44~56HZ, 54~66HZ, 350~450HZ, 450~550HZ, 450~650HZ, 550~660HZ

Cat. nos.	Description	Pack/Cartron qty.
96X96		
050 82	45~65HZ, 230V, one row	100
050 83	45~65HZ, 230V, two row	100



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96x96 & 72x72mm APM ; DIN-Rail Mount APM & DPM; 96x48, 96x96 & 72x72 DPM

APM Series power factor meter



050 84

Moving coil instrument

Accuracy: class 2.5

Voltage: 100V, 220V, 380V, 415V, 440V/5A

Specifications: 0.5cap-1-0.5ind, 0.3cap-1-0.1ind, 0.4cap-1-0.4ind, 0.7cap-1-0.2ind

Cat. nos.	Cat. nos.	Description	Pack/Cartron qty.
96X96	72X72		
050 84	050 85	0.5cap-1-0.5ind	100

Cat. nos.	Cat. nos.	Description	Pack/Cartron qty.
96X96	72X72		
050 91	050 94	Single phase	100
050 92	050 95	Three phase, three wire	100
050 93	050 96	Three phase, four wire	100

APM Series maximum demand meter



051 02

For measuring mean maximum current value, when it is 8 min or 15 min

Accuracy: class 3.0

Specifications: 8min 5A, 15min 5A, 8min 1A, 15min 1A

Cat. nos.	Cat. nos.	Description	Pack/Cartron qty.
96X96	72X72		
051 01	051 05	8min 5A	100
051 02	051 06	15min 5A	100
051 03	051 07	8min 1A	100
051 04	051 08	15min 1A	100

APM Series power meter



050 93

Moving coil instrument

Accuracy: class 1.5

Specifications:

Single phase: 100V, 220V, 380V

Three phase three wire: 100V, 220V, 380V, 415V

Three phase four wire: 100V, 220(380)V, 240(380)V

Current: 1A, 5A

APM Series combined with moving iron ammeter



051 12



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96x96 & 72x72mm APM ; DIN-Rail Mount APM & DPM; 96x48, 96x96 & 72x72 DPM

For measuring mean maximum current value and instantaneous values for combined with moving iron movement meters

Accuracy: class 3.0

Specifications: 8min 5A, 15min 5A, 8min 1A, 15min 1A

Cat. nos.	Cat. nos.	Description	Pack/ Carton qty.
96X96	72X72		
051 11	051 15	8min 5A	100
051 12	051 16	15min 5A	100
051 13	051 17	8min 1A	100
051 14	051 18	15min 1A	100

Cat. nos.	Description	Pack/ Carton qty.
051 21	1A	100
051 22	5A direct or CT connection	100
051 23	10A direct	100
051 24	25A direct	100
051 25	40A direct	100
051 26	interchangeable scale plate 50A	1000
051 27	interchangeable scale plate 100A	1000
051 28	interchangeable scale plate 200A	1000
051 29	interchangeable scale plate 300A	1000
051 30	interchangeable scale plate 400A	1000
051 31	interchangeable scale plate 600A	1000
051 32	interchangeable scale plate 1000A	1000
051 33	interchangeable scale plate 1200A	1000

APM-D1 Din-rail type anlog panel meter

Conform to EN61010-1

Frequency: 50 to 60HZ

Precision: 1.5%(unless otherwise stated)

Operating temperature: -10oC to +40oC

Storage temperature: -20°C to +80°C

Vibration-proof

Overload capacity:

Current path 1,2x In continuous, 10x In 10 sec

Voltage path 1,2x Un continuous, 2x Un 5 sec

APM-D1 Seires AC AMMETERS



051 22

Measures the intensity of the current circulating in an electrical circuit in Amperes.

Moving iron instrument

Frequency range: 45-65HZ

APM-D1 Seires DC AMMETERS



051 42

Measures the intensity of the current circulating in an electrical circuit in Amperes.

Moving iron instrument

Frequency range: 45-65HZ

Possible direct measurement ranges: 50-250|a,1-600Ma, 10-40A

Cat. nos.	Description	Pack/ Carton qty.
051 41	2.5A direct	100
051 42	5A direct	100
051 43	10A direct	100
051 44	25A direct	100



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96x96 & 72x72mm APM ; DIN-Rail Mount APM & DPM; 96x48, 96x96 & 72x72 DPM

APM-D1 Series AC Voltmeter



051 53

Moving iron instrument

Possible direct measurement ranges: 30V, 50V, 75V, 100V, 150V, 250V, 400V, 500V, 600V

Frequency range: 45-65Hz

Cat. nos.	Description	Pack/Carton qty.
051 51	50V	100
051 52	250V	100
051 53	500V	100

APM-D1 Series Frequency meter



051 65

Frequency range: 45 to 55Hz, 400V

Accuracy $\pm 1\%$ of the scale plate length

Cat. nos.	Description	Pack/Carton qty.
051 65	45-55Hz, 400V	100

APM-D Series DC Voltmeter



051 61

Moving iron instrument

Possible direct measurement ranges: 60-500mV, 1-100V, 150-600V

Cat. nos.	Description	Pack/Carton qty.
051 61	100V	100

DPM-D1 Din-rail type digital type panel meter

Conform to standards EN61010-1

3-figure display, max. display 999

Frequency: 50 to 60Hz

Precision: $\pm 1\%$ to ± 1 digital

Continuous overload: 1.2xUn, 1.2xIn

Short overload: 2xUn/ 5 sec, 10xIn/ 10 sec.

Operating temperature: -10°C to + 40°C

Storage temperature: -20°C to + 70°C

Connection: screw terminal

Testing voltage: 2kV, 50Hz

DPM-D1 series AC ammeters



051 85



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96x96 & 72x72mm APM ; DIN-Rail Mount APM & DPM; 96x48, 96x96 & 72x72 DPM

Frequency range: 50-60Hz

Consumption: <1.8VA

Possible measurement ranges: 0-10A AC, for the current over 10A can use the AC current transformer

Cat. nos.	Description	Pack/ Carton qty.
051 81	1A	100
051 82	5A direct or CT connection	100
051 83	10A direct	100
051 84	15-999A, for x / 1A CTs	100
051 85	15-999A, for x / 5A CTs	100

DPM-D1 series AC voltmeter



051 91

Frequency range: 50-60Hz

Consumption: <1.8VA

Possible measurement ranges: 0-600V AC, for the voltage over 600V can use the potential transformer

Cat. nos.	Description	Pack/ Carton qty.
051 91	0-600V(50-60Hz)	100

DPM-D1 series AC Frequency meter



051 95

Consumption approx: 4.5 VA

Other measurement ranges on request

Cat. nos.
051 95

Description
40-80Hz, 230V

Pack/ Carton qty.
100

DPM-D1 series DC ammeter



052 01

Frequency range: 50-60Hz

Consumption: <1.8VA

Possible measurement ranges: 0-20A AC, for the current over 20A can use the external shunt

Cat. nos.	Description	Pack/ Carton qty.
052 01	25-999A, via shunt 60mV	100

DPM-D1 series DC voltmeter



052 13

Frequency range: 50-60Hz

Consumption: <1.8VA

Possible measurement ranges: 0-600V AC or according to request

Cat. nos.	Description	Pack/ Carton qty.
052 11	0,01-10V	100
052 12	0,1-100V	100
052 13	1-600V	100



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DPM-D1 series power factor meters



052 21

Frequency range: 50-60-400Hz

Consumption: 4VA

Cat. nos.
052 21

Description
Cos phi 0.5-1-0.5
transformer/1A, 400V

Pack/Cartron qty.
100

Size: 96X48

Measurement range: AC current, multi-switchable range:
60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A, 500/
5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1500/5A,
1999/5A

Cat. nos.
052 41

Description
Multi-switchable range ammeter

Pack/Cartron qty.
100

DPM-48 series digital voltmeter



052 51

Size: 96X48

Measurement range: AC Voltage 0~600V AC

Cat. nos.
052 51

Description
Multi-switchable range voltmeter

Pack/Cartron qty.
100

DPM-96, DPM-72, DPM-48 series digital panel meter

Conform to standard IEC51-1

Display: 3 1/2 digital LED display (red or green)

Accuracy: 0.5% + - 3 digital

Operating temperature: -10°C to + 50°C

Storage temperature: -20°C to + 70°C

Consumption: <3.2 VA

Heat resistance: case of non-combustible plastic material

Testing voltage: 2kV

Isolation resistance: DC 500V, 100MΩ

DPM-48 series digital frequency meter



052 61

Size: 96X48

Measurement range: 1~199.9 HZ, input votage: 40~60VAC

Cat. nos.
052 61

Description
Frequency meter

Pack/Cartron qty.
100

DPM-48 series digital ammeter



052 41



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DPM-48 series digital power factor meter



052 72

Size: 96X48

Type: single phase and three phase

LEAD 0.5-1-0.5 LAG

Input current: connection by mean of ---/5A transformer

Input voltage: 110v~240v OR 380v~500v

Cat. nos.	Description	Pack/Carton qty.
052 71	Single phase	100
052 72	Three phase	100

DPM-48 series digital three in one switchable ammeter & voltmeter & frequency meter



052 91

Size: 96X48

Measurement range: AC current, multi-switchable range: 60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A, 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1500/5A, 1999/5A

AC voltage 0~600VAC

Frequency: 1~199.9HZ

Input voltage: 40~600V AC

Cat. nos.	Description	Pack/Carton qty.
052 91	Ammeter and voltmeter, frequency in one meter	100

DPM-48 series digital two in one switchable ammeter & voltmeter



052 81

Size: 96X48

Measurement range: AC current, multi-switchable range: 60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A, 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1500/5A, 1999/5A

AC voltage 0~600V AC

Cat. nos.	Description	Pack/Carton qty.
052 81	Ammeter and voltmeter in one meter	100

DPM-48 series digital multi range KW meter



053 07

Size: 96X48

Phase: single phase and three phase

Input current: connection by mean of ---/5A transformer

Input voltage: 110~240v or 380~500VAC

Type A: 40/5A, 50/5A, 75/5A, 100/5A, 150/5A, 200/5A, 300/5A, 400/5A

Type B: 150/5A, 200/5A, 300/5A, 400/5A, 600/5A, 750/5A, 1000/5A, 1500/5A

Type C: 600/5A, 750/5A, 1000/5A, 1500/5A, 2000/5A, 3000/5A, 4000/5A, 5000/5A



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Cat. nos.	Description	Pack/Cartron qty.
053 01	Single phase, type A	100
053 02	Single phase, type B	100
053 03	Single phase, type C	100
053 04	Three phase, type A	100
053 05	Three phase, type B	100
053 06	Three phase, type C	100

Measurement range: AC current, multi-switchable range:
60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A,
500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1500/5A,
1999/5A

Cat. nos.	Description	Pack/Cartron qty.
053 07	Multi-switchable range ammeter	100

DPM-96 & DPM-72 series digital ammeter



053 11

Size: 96X96, 72X72

Measurement range: AC current, multi-switchable range:
60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A,
500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A,
1500/5A, 1999/5A

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 11	DPM-72 053 12	Multi-switchable range ammeter	100

DPM-96 & DPM-72 series digital voltmeter



053 13

Size: 96X96, 72X72

Measurement range: AC voltage 0~600V AC

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 13	DPM-72 053 14	Multi-switchable range voltmeter	100

DPM-96 & DPM-72 series digital frequency meter



053 15

Size: 96X96, 72X72

Measurement range: 1~199.9 HZ, input voltage: 40~60VAC

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 15	DPM-72 053 16n	Frequency meter	100



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DPM-96 & DPM-72

series digital power factor meter



053 17

Size: 96X96, 72X72

Type: single phase and three phase

LEAD 0.5-1-0.5 LAG

Input current: connection by mean of---/5A transformer

Input voltage: 110v~240V or 380v~500V

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 17	DPM-72 053 19	Single phase	100
053 18	053 20	Three phase	100

DPM-96 & DPM-72 series digital two in one switchable ammeter & voltmeter



053 21

Size: 96X96, 72X72

Measurement range: AC current, multi-switchable range:

60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A,

500/5A,600/5A,750/5A, 800/5A, 1000/5A, 1200/5A,

1500/5A, 1999/5A

AC voltage 0~600V AC

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 21	DPM-72 053 22	Ammeter and voltmeter in one meter	100

DPM-96 & DPM-72 series digital three in one switchable ammeter & voltmeter & frequency meter



053 23

Size: 96X96,72X72

Measurement range: AC current, multi-switchable range:

60/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A,

500/5A,600/5A,750/5A, 800/5A, 1000/5A, 1200/5A,

1500/5A, 1999/5A

AC voltage 0~600VAC

Frequency: 1~199.9HZ

Input voltage: 40~600V AC

DPM-96	Cat. nos.	Description	Pack/Cartron qty.
053 23	DPM-72 053 24	Ammeter and voltmeter, frequency in one meter	100



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DPM-96 & DPM-72 series digital multi range KW meter



053 30

Size: 96X96, 72X72

Phase: single phase and three phase

Input current: connection by mean of ---/5A transformer

Input voltage: 110~240v or 380~500VAC

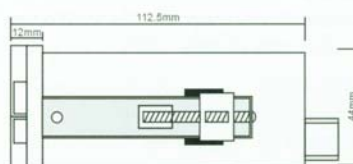
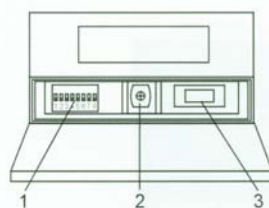
Type A: 40/5A, 50/5A, 75/5A, 100/5A, 150/5A, 200/5A, 300/5A, 400/5A

Type B: 150/5A, 200/5A, 300/5A, 400/5A, 600/5A, 750/5A, 1000/5A, 1500/5A

Type C: 600/5A, 750/5A, 1000/5A, 1500/5A, 2000/5A, 3000/5A, 4000/5A, 5000/5A

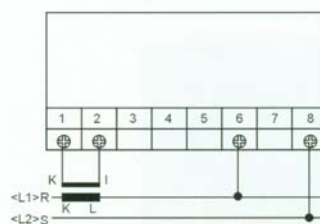
Cat. nos.	Cat. nos.	Description	Pack/Cartron qty.
DPM-96	DPM-72		
053 25	053 31	Single phase, type A	100
053 26	053 32	Single phase, type B	100
053 27	053 33	Single phase, type C	100
053 28	053 34	Three phase, type A	100
053 29	053 35	Three phase, type B	100
053 30	053 36	Three phase, type C	100

DPM-48 series features

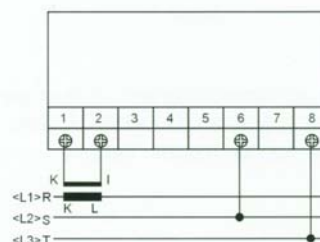


Power factor meter wiring connection diagram

Single phase power factor meter



Power factor meter





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Analogue Time Switch

Date:

7TH Jul. 2005

Group

TB Series

Part Number:

TB-35-XXX-XX; TB-35-XXX-XX

Data Sheet:

SEL-TS-TB35-37

Dimensions: TB-35: WxHxD 105.5x150.5x44mm; TB-37: WxHxD 71.5x43x71.5mm

TB-35 type analogue time switch

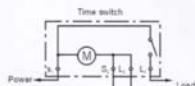


06196

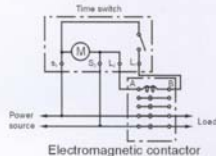
Rated voltage: 110VAC, 220VAC, 240VAC
Voltage tolerance : 85-120V, 170-240V, 220-260V
Frequency: 50/60HZ
Power consumption: 1.5W
Time precision: same as AC current frequency
Ambient temperature: -10°C ~ +50°C
Resistive load: 250V AC 15A
Lamp load: 10A
Inductive load: 12A (cos ϕ = 0.7 or more)
Switch construction: SPST
Minimum setting unit: 15minutes/unit
Minimum setting interval: 15minutes
Dimensions: 105.5(w) x 150.5(h) x 44(d) mm

Cat.nos.	Description	Pack/Cartron qty.
061 95	110VAC	100
061 96	220VAC	100
061 97	240VAC	100

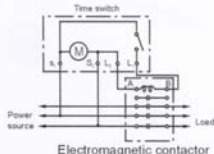
For light load



For heavy load



For three-phase 200-240VAC



When used for loads exceeding the rated capacity, it is imperative that this unit should be used in combination with a magnetic contactor according to each load.

TB-37 type analogue time switch



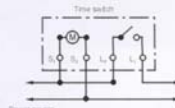
06199

Rated voltage: 110VAC, 220VAC
Voltage tolerance : 85-120V, 170-240V
Frequency: 50/60Hz
Power consumption: 1.5W
Time precision: same as AC current frequency
Ambient temperature: -10°C ~ +50°C
Mounting style: flush mounting
Resistive load: 250V AC 15A
Lamp load: 10A
Inductive load: 12A (cos ϕ = 0.7 or more)
Switch construction: SPST
Minimum setting unit: 15minutes/unit
Minimum setting interval: 15minutes
Dimensions: 71.5(w) x 43(h) x 71.5(d) mm

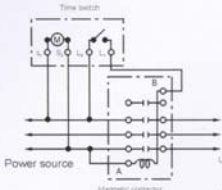
Cat.nos.	Description	Pack/Cartron qty.
061 98	110VAC	100
061 99	220VAC	100

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contactors according to each load.

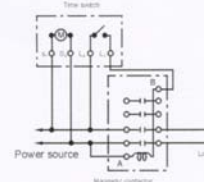
For light load



For three phase 200-240V



For heavy load



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.



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Analogue Time Switch

Date:

7TH Jul. 2005

Group

TB Series

Part Number:

TB-17-XXX-XX; TB-25B-XXX-XX

Data Sheet:

SEL-APM-DPM-02

Dimensions TB-17: WxHxD 69x120x50mm

TB-17 type analogue time switch



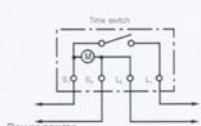
062 01

Rated voltage: 110VAC, 220VAC, 240VAC
Voltage tolerance : 85-120V, 170-240V, 220-260V
Frequency: 50/60HZ
Power consumption: 1.5W
Time precision: Same as AC current frequency
Ambient temperature: 110oC ~ +50oC
Resistive load: 250V AC 15A
Lamp load: 10A
Inductive load: 12A (cos ϕ = 0.7 or more)
Switch construction: SPST
Minimum setting unit: 15minutes/unit
Minimum setting interval: 30minutes
Dimensions: 69(w) x 120(h) x 50(d) mm

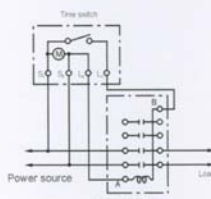
Cat.nos.	Description	Pack/Cartron qty.
062 00	110VAC	100
062 01	220VAC	100
062 02	240VAC	100

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contactors according to each load.

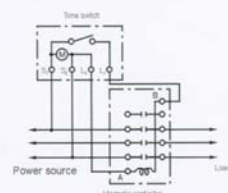
For light load



For heavy load

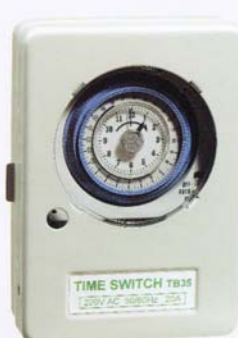


For three-phase 200-240V



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.

TB-35B type analogue time switch



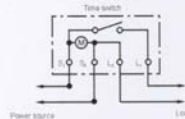
062 04

Back up battery for 100 hours when power failure.
Rated voltage: 110VAC, 220VAC, 240VAC
Voltage tolerance : 85-120V, 170-240V, 220-260V
Frequency: 50/60HZ
Power consumption: 1.5W
Time precision: Same as AC current frequency
Ambient temperature: 110oC ~ +50oC
Resistive load: 250V AC 15A
Lamp load: 10A
Inductive load: 12A (cos ϕ = 0.7 or more)
Switch construction: SPST
Minimum setting unit: 15minutes/unit
Minimum setting interval: 15minutes

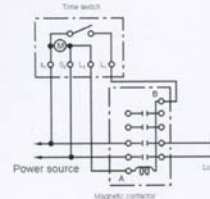
Cat.nos.	Description	Pack/Cartron qty.
062 03	110VAC	100
062 04	220VAC	100
062 05	240VAC	100

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contactors according to each load.

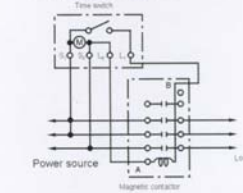
For light load



For heavy load



For three phase 200-240V



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.