



TIME SWITCHES LIGHT SWITCHES & RELAY

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DISTRIBUTORS



Analogue Time Switches - 1 Module



SUL180a AHC180b

■ MAXIMUM RECOMMENDED LOAD
(10,000 OPERATIONS)

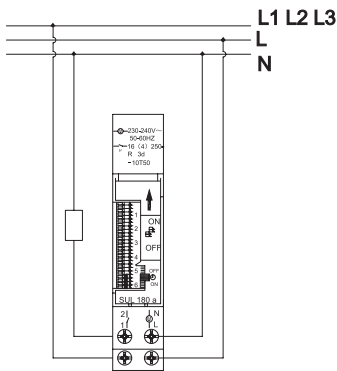
- Filament/Halogen lamp 230V 1000W
- Energy saving lamps 230V 150W
- LED lamp 230V <2W 30W
- LED lamp 230V 2-8W 90W
- LED lamp 230V >8W 100W

Din rail mounting, 1 Module

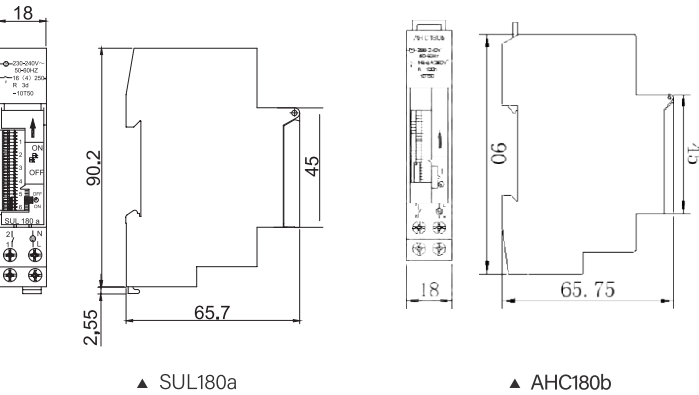
PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
SUL180a	15 mins	230VAC	16A	No contact	Screw terminal	72 hours	1 VA
SUL160a	15 mins	230VAC	16A	No contact	Screw terminal	-	1 VA
AHC180b	15 mins	230VAC	16A	No contact	Screw terminal	100 hours	2 VA

CONNECTION EXAMPLE



SCALE DRAWINGS



Analogue Time Switches - 2 Modules



AHC10

■ MAXIMUM RECOMMENDED LOAD
(10,000 OPERATIONS)

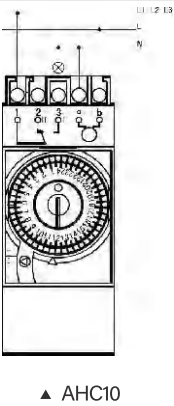
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- LED lamp 230V >8W 100W

Din rail mounting, 2 Modules

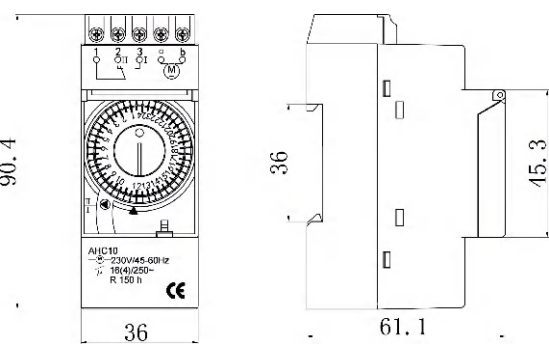
PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
AHC10	30 mins	230VAC	16A	Changeover contact	Screw terminal	150 hours	1.5 VA

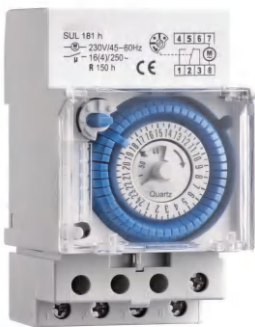
CONNECTION EXAMPLE



SCALE DRAWINGS



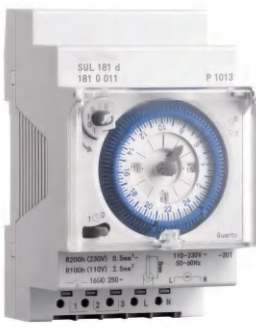
Analogue Time Switches - 3 Modules



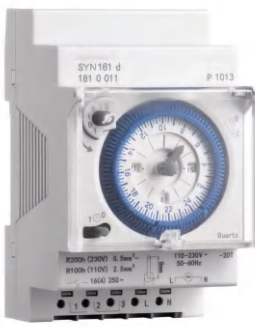
SUL181h



SYN161h



SUL181d



SYN161d



AHC181h



AHC181d

■ MAXIMUM RECOMMENDED LOAD
(10,000 OPERATIONS)

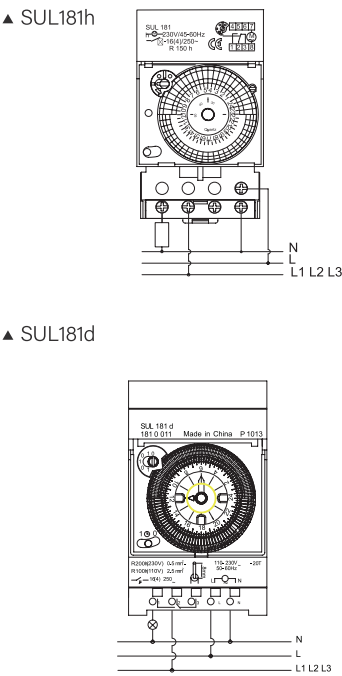
- Filament/Halogen lamp 230V 1000W
- Energy saving lamps 230V 150W
- LED lamp 230V <2W 30W
- LED lamp 230V 2-8W 90W
- LED lamp 230V >8W 100W

Din Rail Mounting,3 Modules

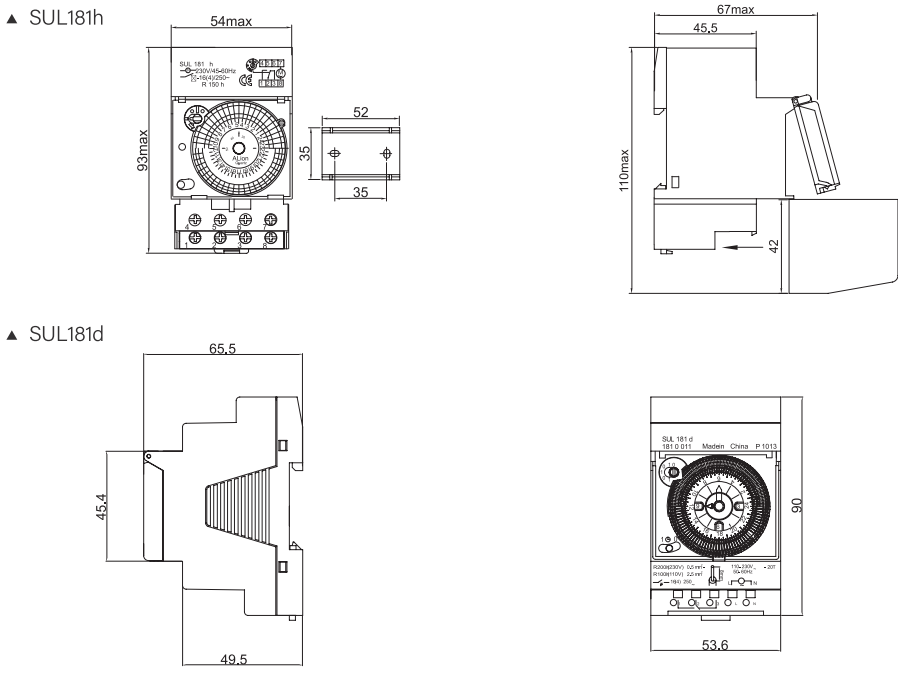
PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
SUL181h	30 mins	110-230VAC	16A	Changeover contact	Screw terminal	150 hours	2 VA
SYN161h	30 mins	230VAC	16A	Changeover contact	Screw terminal	-	2 VA
SUL181d	15 mins	110-230VAC	16A	Changeover contact	DuoFix spring terminal	150 hours	1.5 VA
SYN161d	15 mins	230VAC	16A	Changeover contact	DuoFix spring terminal	-	1.5 VA
AHC181h	30 mins	110-230VAC	16A	Changeover contact	Screw terminal	100 hours	2 VA
AHC181d	15 mins	110-230VAC	16A	Changeover contact	DuoFix spring terminal	100 hours	1.5 VA

CONNECTION EXAMPLE



SCALE DRAWINGS



Analogue Time Switches - 4 Modules



AH711



AH710

■ MAXIMUM RECOMMENDED LOAD
(10,000 OPERATIONS)

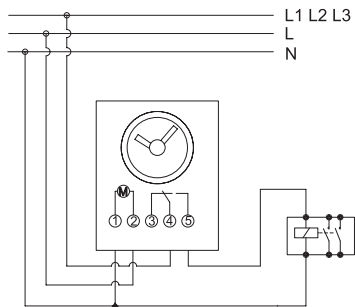
- Filament/Halogen lamp 230V 1000W
- Energy saving lamps 230V 150W
- LED lamp 230V <2W 30W
- LED lamp 230V 2-8W 90W
- LED lamp 230V >8W 100W

Din Rail Mounting,4 Modules

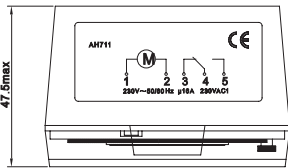
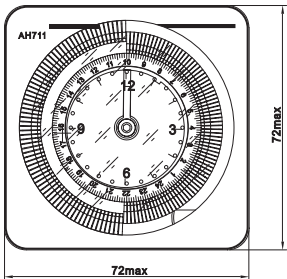
PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
AH711	10 mins	230VAC	10A	Changeover contact	Screw terminal	72 hours	1 VA
AH710	10 mins	230VAC	10A	Changeover contact	Screw terminal	-	1 VA

CONNECTION EXAMPLE



SCALE DRAWINGS



Analogue Time Switches - 4 Modules



AHC712B



AHC189

■ MAXIMUM RECOMMENDED LOAD
(10,000 OPERATIONS)

- Filament/Halogen lamp 230V 1000W
- Energy saving lamps 230V 150W
- Motor load(cos°=0.7) AC110V:750W / AC220V:1500W
- LED lamp 230V <2W 30W
- LED lamp 230V 2-8W 90W
- LED lamp 230V >8W 100W

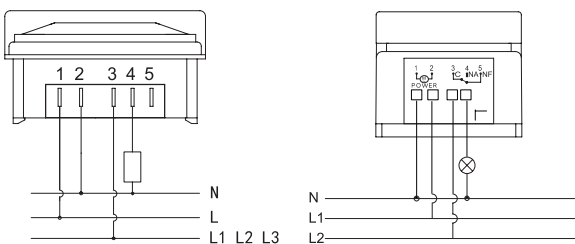
Din Rail Mounting,4 Modules(AHC189)

Fornt Panel Mounting,4 Modules(AHC712B)

PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
AHC712B	15 mins	230VAC	16A	Changeover contact	Screw terminal	24 hours	3VA
AHC712	15 mins	230VAC	16A	Changeover contact	Screw terminal	-	3VA
AHC189	15 mins	230VAC	16A	Changeover contact	Screw terminal	-	3VA

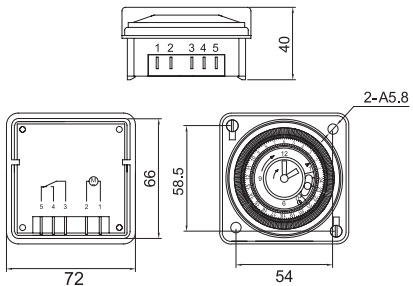
CONNECTION EXAMPLE



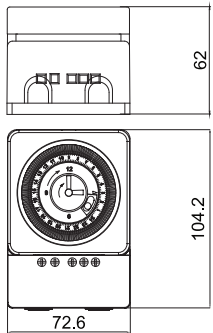
▲ AHC712

▲ AHC189

SCALE DRAWINGS



▲ AHC712



▲ AHC189

Analogue Time Switches - 4 Modules



TB388



TB388B



TB388S

Din Rail Mounting,4 Modules

PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
TB388	15 mins	100-240VAC	20A	SPST	Screw terminal	300 hours	3 VA

Wall mounting/ 3-pointing mounting

PRODUCT PARAMETERS

Items	Mini Switching Time	Operating Voltage	Rated Current	Type of Contact	Type of Connection	Power Reserve	Power Consumption
TB388B	15 mins	100-240VAC	20A	SPST	Screw terminal	300 hours	3 VA
TB388S	15 mins	100-240VAC	20A	SPST	Screw terminal	300 hours	3 VA

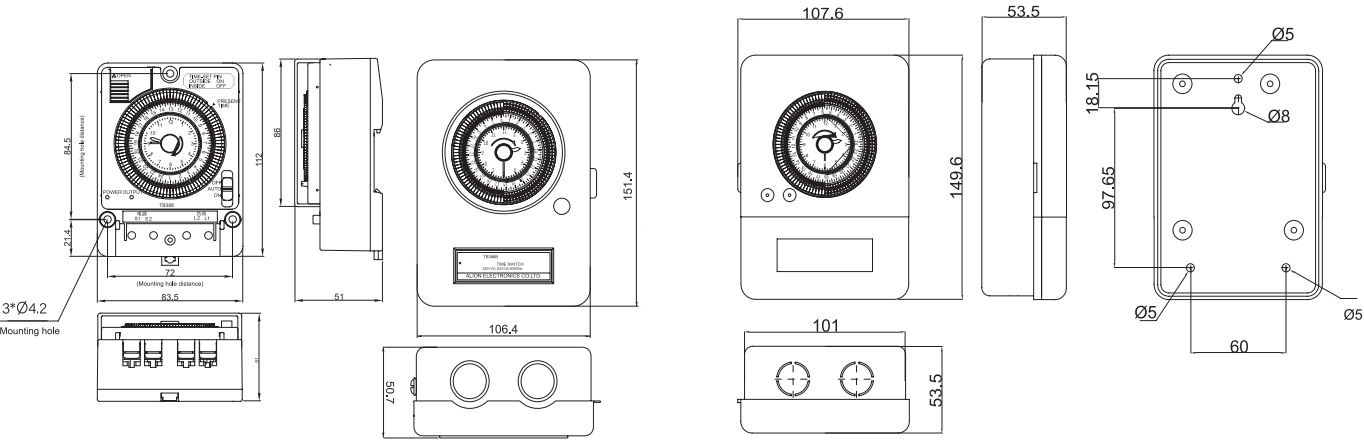
CONNECTION EXAMPLE

		Time switch and load for the same power occasion.
use timing switch direct load control		
load exceeds the rated load,or load for three-phase power	one phase	
	Three phase	

■ MAXIMUM RECOMMENDED LOAD (10,000 OPERATIONS)

- Filament/Halogen lamp 1000W
- Motor load(cos^φ=0.7) AC110V:750W / AC220V:1500W
- Fluorecent lamp load (conventional) parallel-corrected 1300VA

SCALE DRAWINGS



▲ TB388

▲ TB388B

▲ TB388S

Analogue Time Switches - 4 Modules



TBS

DESCRIPTION

- 1 channel
 - Daily program
 - Shortest switching time: 15 minutes
 - Simple summer/winter time correction
 - With power reserve (Nickel metal hydride battery replacement)
- Finger-safe terminals
 - Quartz controlled
 - Switching status display
 - Clock hands for time display
 - Din Rail Mounting,4 Module

TECHNICAL DATE

Supply Voltage	100-240VAC,50/60Hz	Type Of Protection	Plastic enclosure with IP20
Switching Capacity	Resistive load:20A /250V~ at cosφ =1 Inductive load:12A/250V~ at cosφ =0.6	Class Of Protection	II according to EN 60 730-1
Number Of Switching Segments	96	Housing And Insulation Material	High-temperature resistant, self-extinguishing thermoplastic
Time Accuracy At 25 °c	≤ ± 2 Sek./day (quartz)	Test Approval	CE
Power Reserve	300 hours	Power Consumption	3 VA
Type Of Contact	SPST		

TBSMaximum recommended load (10,000 operations)

Filament / Halogen lamp	Motor load(cosφ=0.7)	Fluorescent lamp load (conventional) parallel-corrected
1000W	AC110V,750W AC220V,1500W	1300VA 70uF

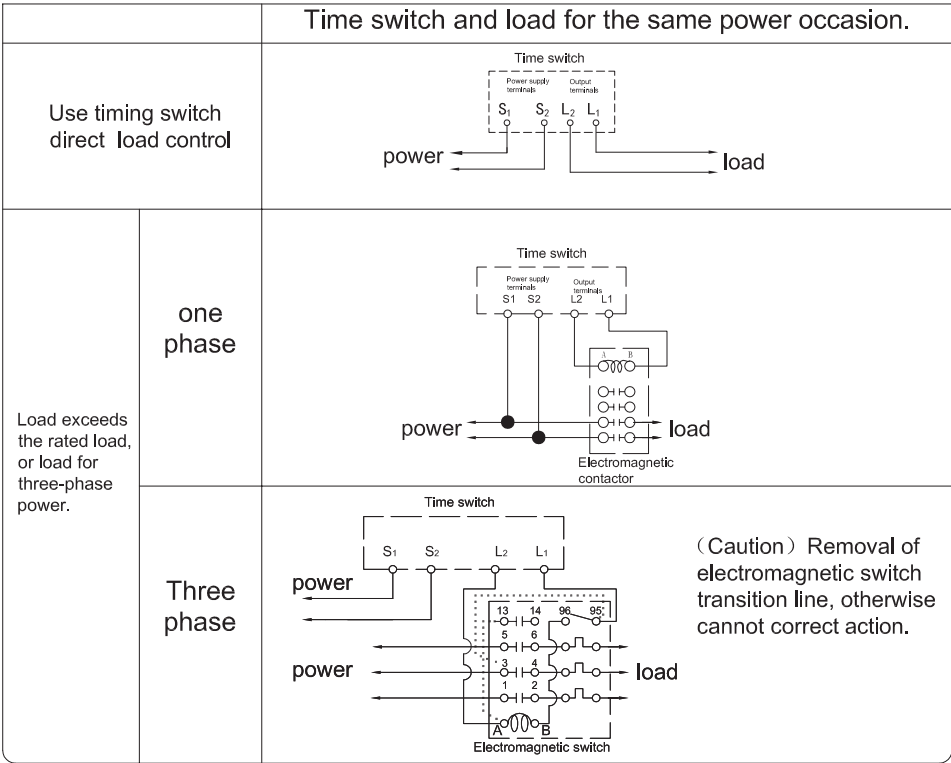
ANALOGUE DAILY TIME SWITCH

TBS analog time switch is a smaller wall mounting type of time switch, the unit can be mounted in the indoor or outdoor enclosure.

APPLICATION

TBS fits for the particular use of the following tasks: Billboard or Showcase lighting, Air-condition or Commercial Refrigeration, Pumps/ Motor/ Geyser/Fan Control, Hydroponic Systems, Wastewater Treatment Systems, Generator Exercising, Boilers / Heater Control, Pool & Spa, etc.

WIRING DIAGRAM



DIMENSIONS

