

Electronic Time Switch

The QAT-TRDM is a programmable time switch that can be used to control loads that are required to switch ON and OFF at time intervals programmed by the user. The programmable time switch can be used to automatically control pool pumps, lights, geysers, etc.



QAT-TRDM
cover open



QAT-TRDM
cover closed



QAT-TRDM
cover closed
Adaptor removed when
installed as DIN

Features

- Compact size
- Simple setting of time and programs
- LCD touch-screen
- Multiple ON / OFF programs
- Improved 15 minute segments
- Service life: 20000 operations at full load
- Backup power feature requires only 60 minutes to charge
- Backup power keeps time for 24 hours. The programmed schedule is always retained.
- Protective lift-up cover – sealable
- Graphical display on home screen of 24h program schedule
- Bypass (manual ON / OFF) capability
- Switched Live contact reduces wiring
- Dual mount: CBI Mini rail or DIN rail (remove escutcheon adaptor)

Applications

- Residential
- Commercial
- Light industrial
- Security lights
- Office lights
- Illuminated signs
- Geyser
- Pool pump

Approvals



www.cbi-lowvoltage.co.za/qat

Electronic Time Switch

Technical Data

Product Type	QAT-TRDM
Operating Temperature Range	-20 °C to +55 °C
Mounting Options	DIN rail & CBI mini rail, 45 and 57 mm escutcheon cut-out (adaptor supplied, see outline dimensions)
Weight	132 g (unpacked)
Pollution Degree	2 - Normally only non-conductive pollution occurs
Supply Voltage	230 V, 50 Hz ~, 1 Ph
Rated Current	21 A resistive 10 A inductive
Contact Life	20000 cycles
Degree of Ingress Protection (When installed)	IP40
Impulse Voltage	4 kV
Ball Pressure Test	125 °C
Programmable Period	96 x 15 min. segments
Clock Accuracy	± 3 min. per month
Time Retention (Power Outage)*	24 h minimum
Power Reserve Charge Time	60 minutes
Terminal Size	16 mm ²
Contact Type	Type 1 C S T

* Useful lifetime of rechargeable cell may be affected by installation conditions.

Ordering Information

Electronic Time Switch			
Product	Description	Std. Pack	Order No.
QAT-TRDM	Standard touch screen electronic time switch with 24 hour reserve DIN and Dual mounted	10	QAT-TRDM

Installation

1. Isolate supply before installing the time switch
2. Install the time switch on either mini rail or DIN rail (remove the escutcheon clip for DIN)
3. Connect the time switch according to figure 1 or 2.
Use a suitable contactor (figure 3) if necessary to switch higher current.
Observe markings for line and neutral poles.
4. Apply power and set the time and desired program schedule (see programming guide)

Electronic Time Switch

Installation Continues

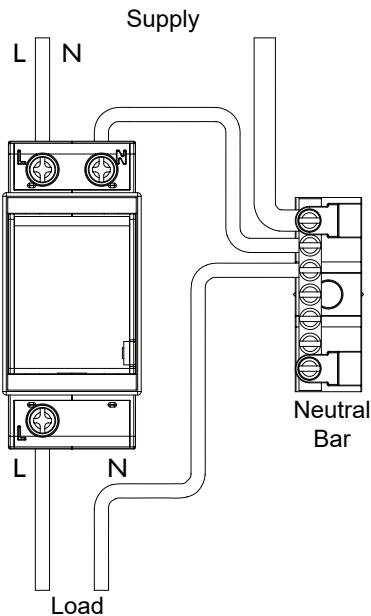


Figure 1: DB wiring

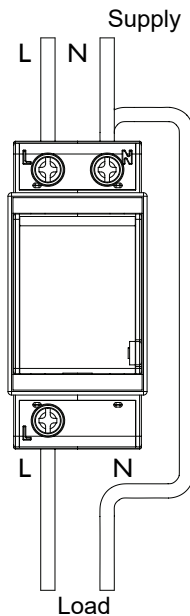


Figure 2: Stand alone wiring

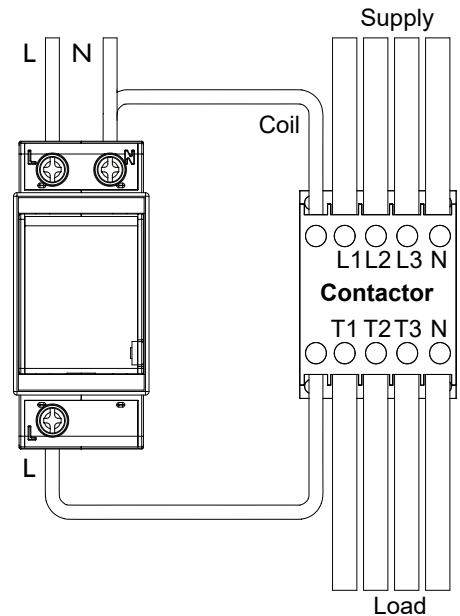


Figure 3: Wiring a contactor for loads greater than 21 A resistive or 10 A inductive

Time Switch Display and Settings

The time switch is fitted with a graphical LCD screen and has four capacitive touch sensitive buttons. Holding the FUNCTION button steps from the home screen to clock set, to programme and back to home. The remaining buttons are used to alter the setting in each function.

Detailed programming instructions are given in the installation leaflet supplied with each time switch and is also available online.

Home Screen

Displays the current time, graphical summary of the program schedule and the current on / off status of the switch. User can switch to bypass from here.

Clock Set

Use the HOUR and MINUTE buttons to adjust the clock.


Programme

Use the ON/OFF buttons to define the programme schedule in 15-minute segments. The programme is displayed graphically using segments around the 24-hour digital clock.

Bypass

From the home screen, hold BYPASS, then press ON or OFF to control the switch manually. Exit bypass by holding BYPASS to resume scheduled operation.

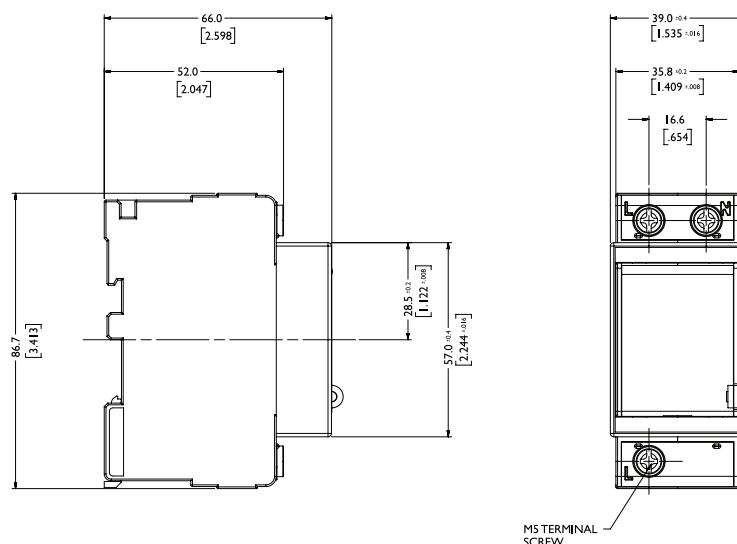
Power Failure

The QAT-TRDM has a 24-hour reserve, meaning that the unit will keep its time and programme settings for a minimum of 24-hours if the supply voltage to the unit is lost. During prolonged power outages, the display is disabled to conserve energy. Until such time, the unit displays  to indicate a loss of supply. If the reserve backup is depleted, only the clock time has to be readjusted when the supply power is restored. The programme schedule is always retained.

Electronic Time Switch

Outline Dimensions: Dual Mount

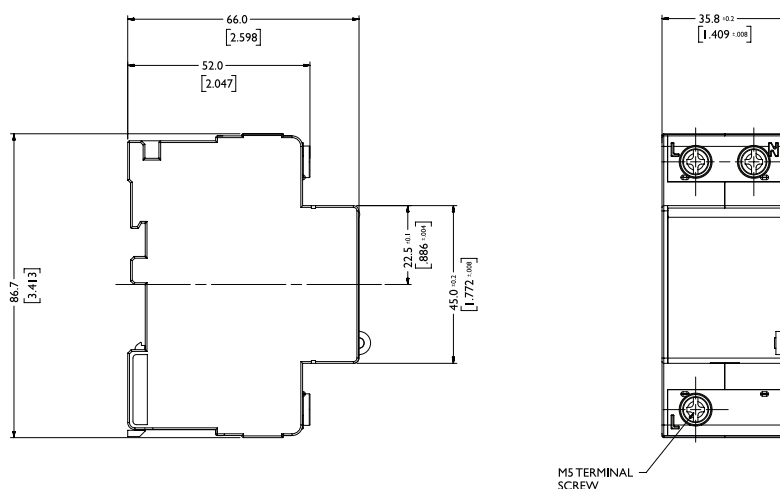
DUAL MOUNTING QAT UNIT



TOLERANCE ± 0.4 UNLESS OTHERWISE SPECIFIED
(DIMENSION IN BRACKETS ARE IN INCH)

Outline Dimensions: DIN Mount

DIN MOUNTING QAT UNIT



TOLERANCE ± 0.4 UNLESS OTHERWISE SPECIFIED
(DIMENSION IN BRACKETS ARE IN INCH)

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