



Features

Miniature relay for PCB.

Available in 1 change-over contact with max. current 6A (AC1 / 250V; DC1 / 30V).

Nominal power: 5 - 24 VDC (170mW) ; 48 VDC & 60 VDC (210mW).

Miniature, low consumption, high response and sensitivity relay.

PCB terminals.

Approvals: CE.

Contacts

Contacts arrangement	1C
Max. contact power	1500 VA / 180 W
Max. voltage	250 VAC / 30 VDC
Max. current	6 A (AC1 250V) / 30VDC1
Contact resistance	$\leq 100 \text{ m}\Omega$
Contact material	Aleación de plata

Coil values(at 25° C)

	VDC
Campo de funcionamiento	0,75 - 1,3Un
Tensión de desconexión	$\geq 5\% \text{ Un}$

Coil ratings

N.voltage VDC relay	5	6	9	12	18	24	48	60
Resistance ($\Omega \pm 10\%$)	147	212	476	848	1906	3390	10600	16600
Socket input voltage	24VDC/AC						60 VDC/AC	

Specifications

Electrical life	$\geq 10^4$ ciclos
Mechanical life	$\geq 10^7$ ciclos
Operating time	Máx. 8 ms
Release time	Máx. 4 ms
Electrical strength at 1 mA	4000 VAC / 1 min. (Between coil and contacts) 1000 VAC / 1 min. (Between open contacts)
Vibration resistance	10 - 55 Hz (Double width 1,0 mm)
Shock resistance	5 G
Room temperature	- 40° C + 85° C
Room humidity	5% - 85% RH
Atmospheric pressure	86 - 106 KPa
Weight	5,4 gr
Pack units	20 relays + sockets

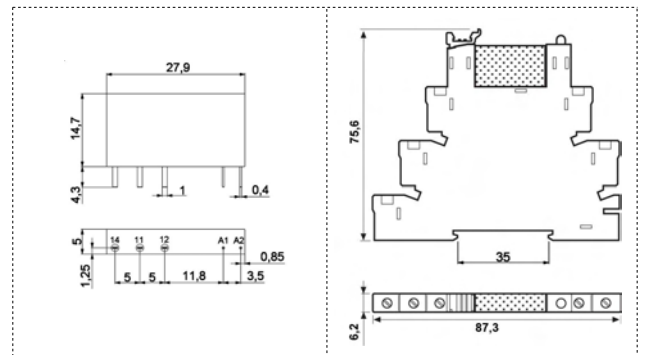
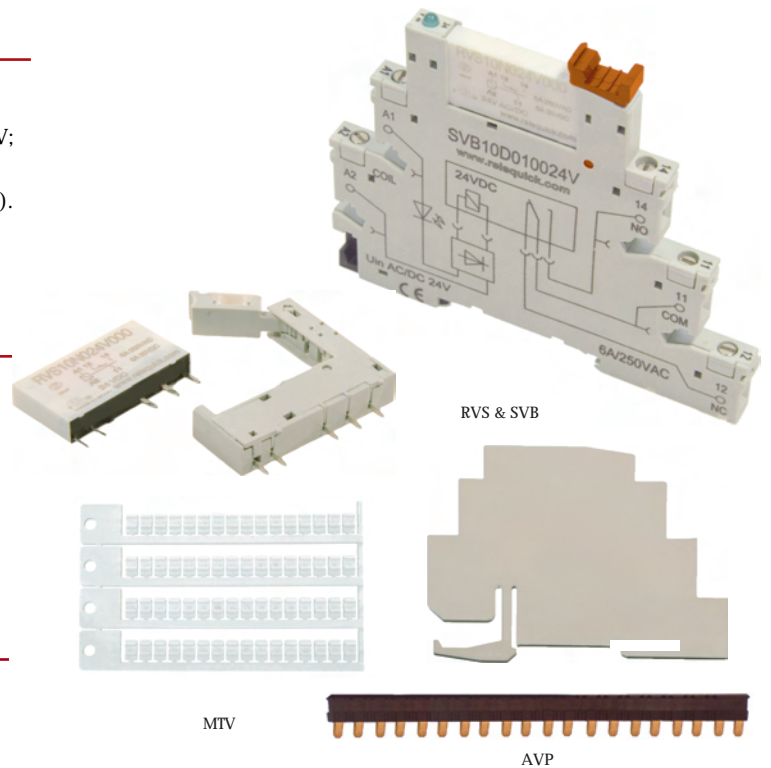
PLC interface relays and sockets

RVS10N(*)V000	Interface relay PLC 6 A
SVB10D010(*)V	Interface socket PLC 6,2 mm
SVB10D010000V	PCB socket - weld on 6,2 mm
SVB10D000000V	Separator accessory
AVP	Connection bridge for SVB sockets
MTV	Labels set for laser marking

(*) coil voltage
(*) input voltage
(*) 1 bridge (20 pins) per unit
(*) 1 set 64 labels

Sockets' references / Relays' coil voltage

Sockets reference	SVB10D010012V	SVB10D010024V	SVB10D010060V	SVB10D010110V	SVB10D010240V
Sockets input voltage	12 VAC/DC	24VAC/DC	60VAC/DC	100-110VAC/DC	220-240VAC/DC
Coil voltage	12VDC	24VDC	60VDC	60VDC	60VDC



RVS & SVB

SVB sockets

SVB Sockets features

Interface I/O (Input/Output) & weld on sockets

Diferent types depending on the input voltage

Protection and indication circuit

Rail DIN (35 mm) and PCB

DIN / EN sequential numbering!

SVB Socket's specifications

Nominal load	6 A / 300 VAC
Dielectric strength	>3 KV
Screws	M3 Steel. Pozi drive
Wire in lets capacity solid wire	1 x 2,5 mm ²

Overview

Relequick's new electronic programmable module has been specifically designed for timing and controlling 5.08 mm PCB relays. The module can be mounted on a DIN-rail and thanks to its 6.22 mm width and compact design it will take up minimum space on any control panel.

With its 6 different functions and the wide timing range available (from 0.05 seconds to 10 hours) the module offers great control versatility within a reduced space.

Nominal values

Supply voltage	12 - 24 VAC / VDC	
Programming timing range	0.05 seconds to 10 hours	
Operation time	0.01 seconds	
Timing precision	+ 1% of set time	
Indicators	Relay excited	Green LED
Output relay	1 SPDT relay with 6A switching capacity (AC1 / 250 V - DC1 / 30V)	

Features

Programmable multifunction electronic device. Up to 6 functions can be configured with 3 trimmers and using 6 different time scales:

- [0.05 - 1] [0.5 - 10] [5 - 100] seconds
- [0.5 - 10] [5 - 100] minutes
- [0.5 - 10] hours

Compact design (6.22 mm) and easy mounting and wiring. SPDT 1-relay output with switching capacity of 6A (AC1 / 250V, DC1 / 30V).

Timing range: 0.05 seconds to 10 hours.

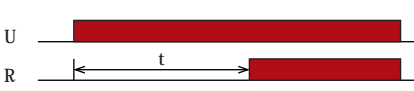
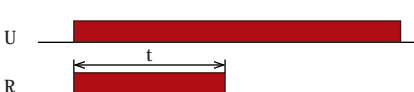
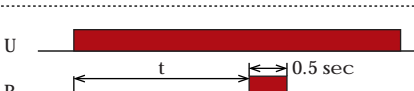


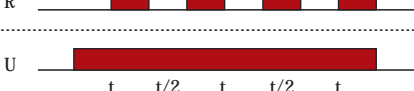
LED indication of relay excitation.

One model covers the whole tension range 12 - 24 VAC/DC. Easy programming: timers can be configured using a more precise scale to adjust their value best. Once the value is considered correct, the scale can be changed to the actual one to be used in operating mode.

Uses and applications

Being able to add timing behavior is often useful in all kind of systems, from industrial applications to buildings. With our programmable timed module it is possible to adjust how the whole system works, and its different customizable functions make it useful in a wide range of possible environments.

Available functions

	Short description	Diagram	Description
Function 1	On delay (switch-on delay)		The relay is activated after a timed delay t
Function 2	On pulse (switch-off delay)		The relay starts activated and is switched off after a timed delay t
Function 3	Fixed pulse		The relay is activated after a timed delay t and keeps switched on for 0.5 seconds. It is then switched off again
Function 4	Symmetrical cycle (starts activated)		The relay is first switched off after a timed delay t and then in turn switched on again after a new t delay. The process repeats in a cyclical manner, starting off with a switched on relay
Function 5	Symmetrical cycle (starts disconnected)		The relay is first switched on after a timed delay t and then in turn switched off again after a new t delay. The process repeats in a cyclical manner, starting off with a disconnected relay
Function 6	Asymmetrical cycle (starts disconnected)		The relay is first switched on after a timed delay t and then in turn switched off again after a second $t/2$ delay. The process repeats cyclically in a manner, starting off with a disconnected relay



Specifications

Working temperature	-10 to 60 °C	
Storage temperature	-20 to 70 °C	
Supply frequency (AC)	50 / 60 Hz + 3 Hz	
Output relay	Resistive load	6 A at 250 VAC ($\cos \phi = 1$) 6 A at 30 VDC (L / R = 0 ms)
	Inductive load	1 A at 250 VAC ($\cos \phi = 0.4$) 1 A at 30 VDC (L / R = 7 ms)
	Mechanical life	10^7 cycles
	Electrical life	3×10^4 cycles
Max. screw torque	0.6 Nm	
Mounting	DIN-rail	
Dimensions & weight	6.22 (width) x 90 (height) x 76 (depth) mm (32 g)	

Precautions for a correct use

GENERAL PRECAUTIONS

Do not use the product in places exposed to radiant heat, vibrations or shocks.

Make sure the module has been configured properly with regard to the controlled object. Otherwise unwanted or false outputs could be activated.

When the product has reached the end of its mechanical or electrical lifetime take into account the applicable laws and policies regarding industrial waste when throwing it out.

Allow for the necessary heat dissipation. Do not block the built-in ventilation openings.

Do not apply any supply to the module during the wiring and installation process.

Do not install the module anywhere near sources of electromagnetic interference.

INSTALLATION PRECAUTIONS

Tighten the terminal screws firmly without exceeding the maximum screw torque. Recommended torque: 0.6 Nm. The working room temperature must be within the specified allowed range.

Double-check the polarity of the module connections for a correct installation.

CORRECT USE

Do not supply the module outside the specified allowed supply range. If the socket's supplied within the range 12 - 18 V the 12 V relay must be used; if supplied with 18 to 24 V though, the 24 V version is to be used.

Do not modify or manipulate the product without the supervision of a qualified person.

The use of this module on circuits with a high level of harmonics might result in unwanted operations.