

Change instructions

C64/UC24-60V to CS3/UC12-240V

As part of the consolidation of our product range, the C64/UC24-60V pluggable time relay is being discontinued. Its functionality can largely be covered by the CS3/UC12-240V. The C64/UC110-240V remains in the range and can be used as a replacement where necessary.

This document outlines the similarities and differences between the C64/UC24-60V and the CS3/UC12-240V.



1 Technical compatibility

The C64 and CS3 are both pluggable time relays with 2 changeover contacts and the same contact material (AgNi). The CS3 has a wider control voltage range, more time functions and a wider time range, but is only designed for frequencies up to 63 Hz. No replacement is provided for higher frequencies.

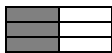
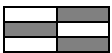
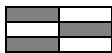
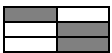
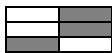
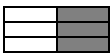
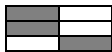
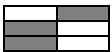
Unlike the C64, a trigger voltage (B1) must be provided for the CS3. Furthermore, the C64 is internally powered for up to 20 minutes without an auxiliary voltage. The CS3 does not have an internal power supply and will therefore fail in the event of a power cut.

Overview of key characteristics:

	C64/UC24-60V	CS3/UC12-240V
Recommended minimum contact load	10 mA / 12 V	10 mA / 10 V
Maximum contact rating AC-1 DC-1	5 A / 250 V	6 A / 250 V
Rated load AC-1	1 250 VA	1,500 VA
Operating voltage range (AC / DC)	20 – 75 V	10 – 265 V
Power consumption AC DC	0.9 VA 0.9 W	1.4 VA 0.8 W
Frequency range	0.50 – 400 Hz	0.45 – 65 Hz

1.1 Time range setting CS3

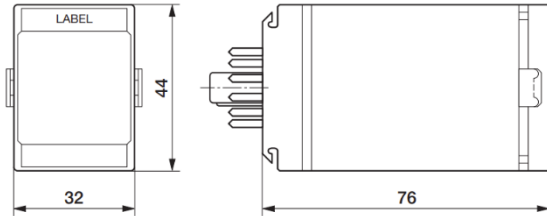
The time range is set using the bottom 3 DIP switches. If the setting is changed whilst the time is running, the elapsed time is taken into account proportionally.

Switch position	Time range	Switch position	Time range
	50 ms – 600 ms		5 min – 60 min
	0.5 s – 6 s		0.5 h – 6 h
	5 s – 60 s		5 h – 60 h
	0.5 mins – 6 mins		50 h – 600 h

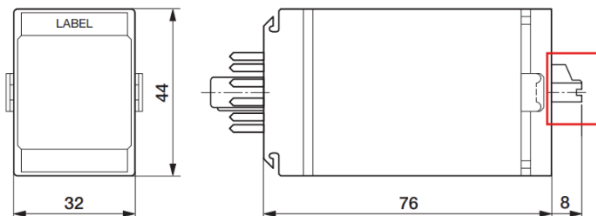
1.2 Housing

Both types have the same case shape and the same socket. The only difference is the protruding adjustment knob on the CS3

Dimensions of the C64



Dimensions of the CS3



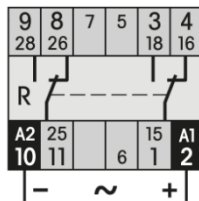
2 Wiring

The wiring diagram is provided via the S3-M socket. The only additional wiring required is for the trigger voltage B1 (pin 1).

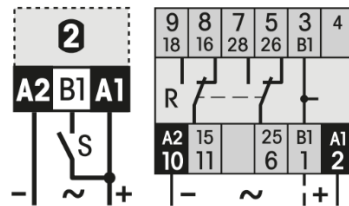
2.1 Wiring diagram

The timing functions N (turn-off delay) and A (turn-on delay) for the CS3, as shown in wiring diagram 2:

S3-M socket with C64



S3-M socket with CS3



3 Data sheet

The data sheet for the [CS3/UC12-240V](#) and these replacement instructions are available on our website and contain all the relevant technical information.

You can find a complete overview of all time relays via the navigation:

<https://www.comatreleco.com/en/Products/Time-Relays/>

If you have any further questions, our technical support team will be happy to assist you:

support@comatreleco.com