

Change Instructions from C85 to CIM3

As part of the consolidation of our product range, the C85 time relay is being discontinued.

Its functionality can be fully replicated using the CIM3/UC24-240V.

This document outlines the similarities and differences between the C85/UC24-240V and the CIM3/UC24-240V.

1 Technical compatibility

Both time relays are designed for a wide-range control voltage of 24–240 V AC and DC, and both feature an AgNi changeover contact. Both relays cover the same time functions (F, G, Q, I, P, H, I), time ranges (50 ms to 60 h) and time scales.

The CIM3 has comparable or better characteristics compared to the C85:

	C85	CIM3
Recommended minimum contact load	10 mA / 10 V	
Rated current	8 A	16 A
Rated load AC-1	1250 VA	4,000 VA
Operating voltage range	20 – 265 V AC/DC	16.8 – 250 V AC/DC
Power consumption AC DC	10 VA 1.8 W	1.2 VA 0.43 W

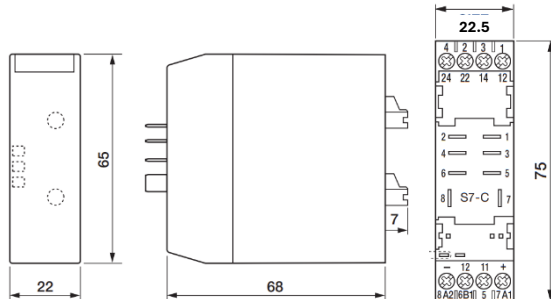
Both types have the same mechanical service life; the CIM3 is expected to have a longer electrical service life.



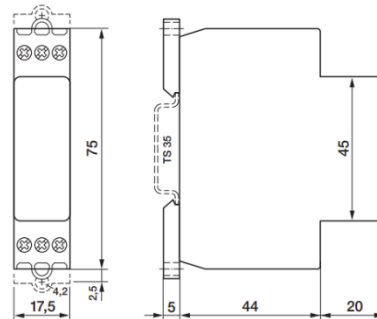
1.1 Housing

The CIM3 is 5 mm narrower and is mounted directly onto the DIN top-hat rail. The S7-C socket associated with the C85 is not required. The CIM3 is also shallower than the C85 with its socket; and is the same height as the S7-C socket.

Dimensions of the C85 + S7-C socket



Dimensions of the CIM3

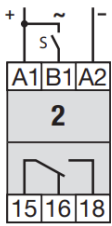
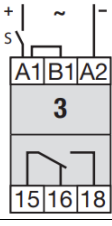


2 Wiring

The wiring diagram differs between the models, so adjustments to the wiring are required when switching between them. In particular, the terminals for coil control are located at the bottom on the S7-C socket, whilst they are at the top of the CIM3. The connection positions of the relay contacts also differ:

	S7-C socket (to C85)	CIM3
15 COM	5 (bottom)	15 (bottom)
16 normally closed	1 (top)	16 (bottom)
18 Normally-closed	3 (top)	18 (bottom)

The mapping of the time function to the wiring is identical:

	C85 + S7-C	CIM3
Time functions F: Switch-on and switch-off delay Q: Switch-on/switch-off sweep G: Switch-on delay, single pulse	Wiring diagram 2 	
Time functions I: Clock signal, pulse start P: Clock signal, interval start H: Switch-on delay, single pulse	Wiring diagram 3 	

The times are set in the same way using the corresponding potentiometers.

The requirements for conductor cross-section are comparable; the torque is slightly lower on the CIM3 (0.5 Nm instead of 0.7 Nm).

3 Data sheet

The data sheets for the [C85/UC24-240V](#), [S7-C](#) and [CIM3/UC24-240V](#) are available on our website and contain all relevant technical information. You can find these replacement guides for discontinued and successor products.

A complete overview of all time relays can be found 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:

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