

**CT33R****Multifunction | 24 ... 48 V UC | 115 V UC | 230 V UC****Time data**

Timing functions

fig. 1 2: E, A, K, N, B1, F, G, Q, L 3: E, W, B, H

Timing range

30 ms ... 150 ms / 120 ms ... 600 ms / 0.3 s ... 1.5 s / 1.2 s  
 ... 6 s / 3 s ... 15 s / 12 s ... 60 s / 0.3 min ... 1.5 min / 1.2 min  
 ... 6 min / 3 min ... 15 min / 12 min ... 60 min / 0.3 ...  
 1.5 h / 1.2 min ... 6 h / 3 h ... 15 h / 12 ... 60 h  
 30 ms ... 60 h

Timing scale

**Control circuit**

Nominal voltage

24 ... 48 V UC

115 V UC

Operating voltage range

19 ... 60 V UC

90 ... 150 V UC

Power consumption AC / DC

0.3 VA / 0.3 W

0.5 VA / 0.5 W

Current consumption on supply A1-A2 AC / DC

11 mA / 11 mA

7 mA / 7 mA

Threshold voltage on input control B1 AC / DC

9 V / 9 V

60 V / 60 V

Rated frequency

0; 40 ... 60 Hz

0; 40 ... 60 Hz

**Control circuit**

Nominal voltage

230 V UC

Operating voltage range

180 ... 265 V UC

Power consumption AC / DC

1 VA / 1 W

Current consumption on supply A1-A2 AC / DC

4 mA / 4 mA

Threshold voltage on input control B1 AC / DC

100 V / 100 V

Rated frequency

0; 40 ... 60 Hz

**General data**

Ambient temperature storage (no ice)

-40 ... 85 °C

Ambient temperature operation

-40 ... 70 °C

Dimensions

fig. 2

Weight

25 g

Protection degree

IP 20

Housing material

PC

**Product reference**

Description	Type	24-48	115	230
UC supply	CT33R/UC...V	✓	✓	✓

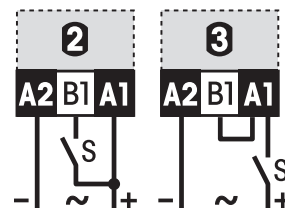
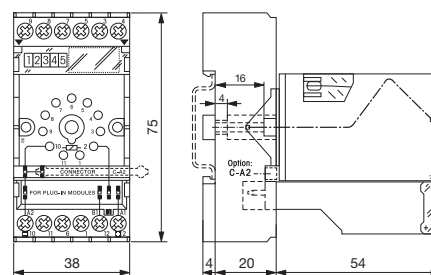
Other voltages on request. Please contact [support@comatreleco.com](mailto:support@comatreleco.com).

«...» list control circuit voltage to complete product references.

**Accessories**

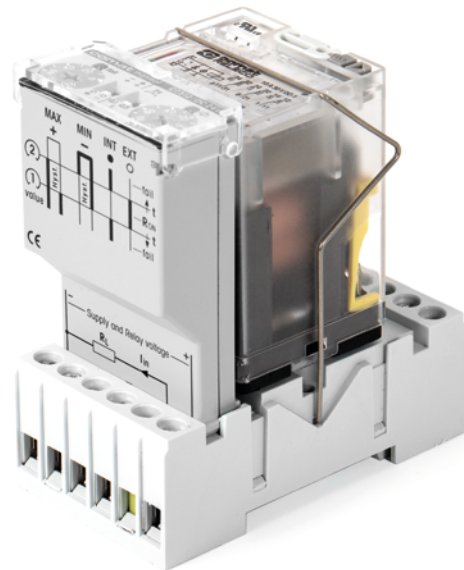
Socket

S3-MR, S3-MOR, S3-M1R

**fig. 1. Wiring diagram****fig. 2. Dimensions (mm)****Standards and approvals**

Standards EN 50155; EN 45545-2

Approvals    



## The ComatReleco timer / monitoring CT modules

The time delay relays and monitoring relays consist of plug-in CT electronic modules and 11 pole output relays. Both system components can be combined in a variety of combinations. This allows adapting the system for the specific application.

Subsequent modifications, for example a change from mechanical contacts to solid-state outputs, are possible at any time just by replacing the relay.

This system provides the user a complete universal system with worldwide unmatched flexibility.

**The system sockets** S3-M0R or S3-M1R serve as a basis for the secure reception of electronic modules. The sockets have a 4 pole module slot in which the CT modules lock firmly and vibration proof also without the output relay. Contact is made with reliable twin knife contacts.

With the A2 connector bridge "C-A2", the neutral conductor (N/-) can be connected from socket to socket. It reduces wiring work considerably.

Robust terminals for wires up to 4mm<sup>2</sup> and spacious labelling are other advantages of this practical ComatReleco modular system.

Clear markings close to the terminal connections on the sockets make it easy to identify the connections for wiring and servicing.

**The CT modules** are proof of the practical oriented experiences of ComatReleco in the field of industrial electronics. All control and display elements are arranged easy accessible at all times on the front side of the modules. The functions and settings are self-explanatory schematically illustrated on the front and allow to review the set values also during operation.

A transparent cover over the module setting components provides protection from unintentional settings and additionally links the module to the output relay.

Triggering is performed with the operating voltage. (L1 or +). No potential-free contacts are therefore required. The triggering complies to machine standards. Parallel connection to B1 is admissible.

**The standard contacts** have proven its reliability for high switching current applications over many years. The contact material AgCuNi permits a wide switching range and due to the large dimensioning they are designed for a high number of switching cycles. The high breaking capacity of up to 10 A / 250 V and a low load switching capability of 10 V / 50 mA makes the contact suitable for the use in main circuits as well as for low voltage applications.

**The twin contacts** are switching the load circuit with 2 independent contact tongues. The switching safety for low currents is therefore 100 times higher compared to a single contact relay. Despite the high switching capacity of up to 6 A / 250 V, these contacts are very suitable to switch low currents and voltages up to 1 mA / 5 V.