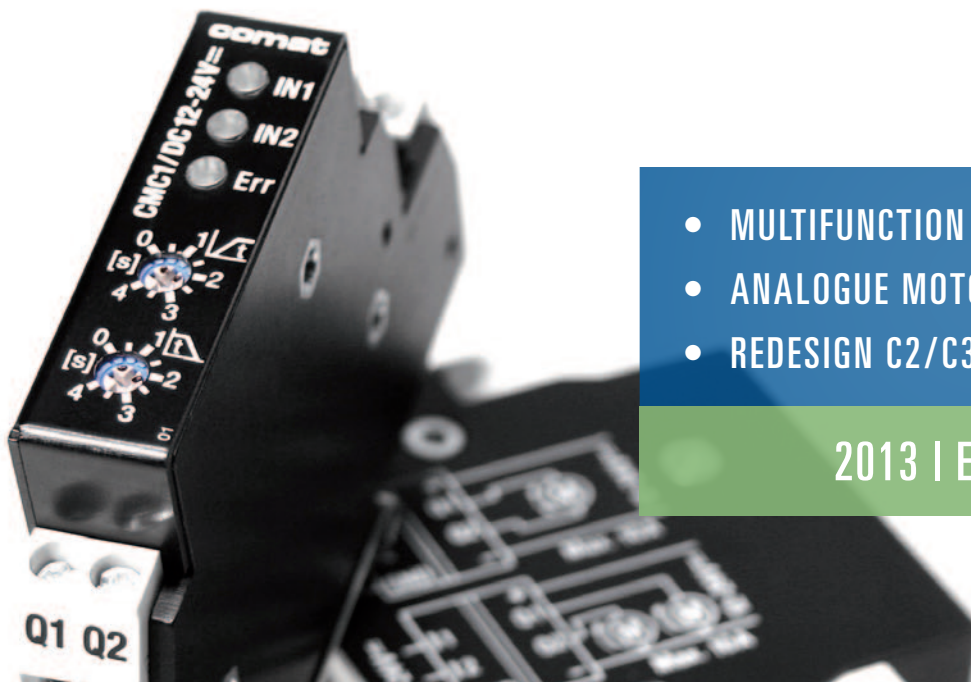


# update



- MULTIFUNCTION TIMING RELAY
- ANALOGUE MOTOR CONTROLLER
- REDESIGN C2/C3

2013 | EDITION 2

After a never ending winter and just right for the beginning of the summer Comat AG presents you new product and application examples with this issue:

For our customers fighting with limited panel space, Comat AG developed a new multifunction timing relay. The CRV4/CSV4 convinces with its compactness and allows an almost unlimited variety of functions and a multitude of application possibilities.

With the wear-free DC solid-state output of the CSV4 almost unlimited number of switching cycles are achieved. Furthermore, this contact fits well for time-critical applications within the machine industry due to its short response time of less than 0.8 milliseconds.

The analogue motor controller CMC15, an enhancement of the well-known CMC1, allows to control with analogue signals the speed of a DC motor. This adds some more interesting applications to Comat's Motor Controller product family so that the whole product group becomes more and more interesting daily operations of any kind of manufacturers.

With the redesign of the relay series C2/C3, we did react on customer needs and tried to eliminate some weak points in the

design of the old construction. The different modifications have contributed to a lower energy consumption and higher reliability and lifetime. Find out more on page 3 of this brochure.

We are looking forward to a lot of interesting projects and positive feedback from your side, but we also accept constructive criticism which we see as a chance to improve ourselves continually. We appreciate hearing from you soon.

Enjoy reading...

Best regards

Andreas Schrag  
Vice President Sales



# CRV4 / CSV4

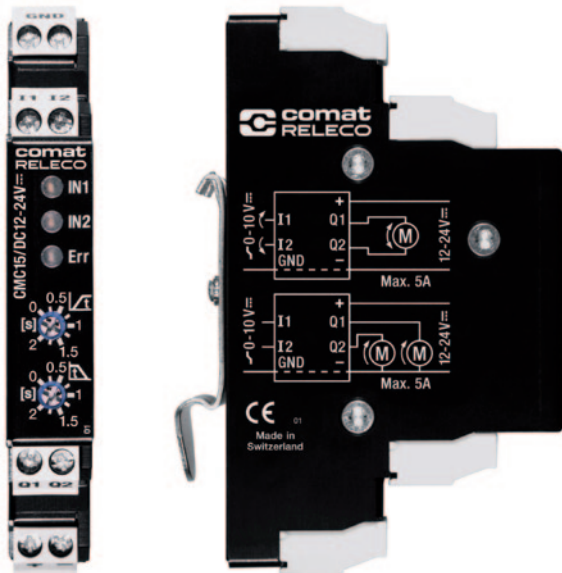
## MULTIFUNCTION TIMING RELAY

### THE SMALLEST HIGH PERFORMANCE TIMING RELAY

- Space saving : only 13 mm wide
- For numerous applications and optimized stock const : 16 timing functions in one unit.
- Time setting optionally by external potentiometer
- Unlimited number of operations due to the semi-conducteur output in CSV4

The CRV4 includes a 6 A changeover relay contact and provides a power supply range of 24 – 240 V (UC). The CSV4 supports the same functionality as the CRV4. Due to its DC semiconductor output with a shortest pulse length of 0.8 ms, CSV4 is suitable for time-critical applications in machine building industry. The timing can be set by an external potentiometer as well: Simple automation processes can be realized without use of a programmable controller. CRV4 and CSV4 are supporting all common timing functions like on delay and enhanced functions like pulse shaping and chaircase switch.

Order reference: **CRV4/UC24-240 V**  
**CSV4/DC12-36 V**



Due to its analogue inputs the CMC15 is suitable to control the speed of DC motors continuously. One motor can be operated in both rotating directions or two motors in the same rotating direction simultaneously. The acceleration and braking ramp can be set by two potentiometers or by an external main controller by analogue inputs.

Available from July 2013

Technical support: 031 838 55 10 or support@comat.ch

# CMC15

## ANALOGUE MOTOR CONTROLLER

- Increases the lifecycle of the entire system, prevents mechanical shocks and current peaks
- Adjustable acceleration- and deceleration ramp
- Equipped with a wear free and short-circuit protected solid state output
- Space saving : only 14 mm wide

### SAMPLE APPLICATIONS

- Valve drives in water supply
- Conveyor belts in logistics

Order reference: **CMC15/DC12-24 V**

### Technische Daten

|                             |                            |
|-----------------------------|----------------------------|
| Switching current / voltage | 5 A / 24 V                 |
| Switching power DC-5        | 120 W                      |
| Power consumption Pmax      | ≤150mW (12V) / 300mW (24V) |
| Ramp times, selectable      | 0...2s                     |

The next generation of our C2 and C3 series includes many new technical features which will extend the life cycle of the relay itself and also the availability of the whole plant.

• **A LOW POWER CONSUMPTION** is achieved by LED's of the latest generation.

• **THE SMALLER HEIGHT** is the result of a complete new design.

• **HIGH RELIABILITY** due to new connection technologies: All connections of the coil or in the main circuit are riveted, welded or crimped. As a result of that, flux vapor doesn't arise and chemical damage of the contact surfaces doesn't occur.

• **EXTENDED LIFETIME:** A short bouncing time during the pull-in of the armature protects the contacts and extends the lifetime of the relay. That's the result of the shock absorbing bronze plate which is integrated in the relays with a DC coil.

• **LONG LIFE** due to precise contact pins: The effective forces between the relay and the socket are evenly spread all-over the contact pins. This prevents mechanical or electrical overstraining of single relay-socket connections, which reduces the error rate of the whole plant over its lifetime.

• **THE ENHANCED FIRE PROTECTION** is the benefit of the flame retardant polyamide components.

The conversion to the new generation takes place immediately sequentially. The compatibility to the previous version is ensured to 100%.