CF series
Multipole AC power contactors for 300 A or 600 A with NO or NC switching chambers
Flyer C60.en
CF – Multipole AC power contactors

Schaltbau’s new, highly modular CF series begins with a compact 3-pole AC power contactor for loads up to 600 A and 3000 V for inverter-fed alternating current drives with higher frequencies. One special feature are the newly developed switching chambers. These can be universally configured as NO, NC or in combination as a change-over. An efficient economy circuit reduces power consumption as well as heat loss and saves costs.

- Compact dimensions – high performance range: 3,000 Volt AC / 3x 600 Ampere, frequencies up to 400 Hertz
- Innovative application-dependent arc chamber design – configurable as NO, NC or changeover contact
- High thermal continuous current 300 amps or 600 amps through parallel connection of two main contacts each and a high rated short-time withstand current up to 4,000 amps
- 4 auxiliary switches for diagnosis and switching status monitoring
- Low energy consumption and low heating thanks to sophisticated coil saving circuit

CF contactors can be adapted in many ways. The high variance makes the devices interesting for use in many different applications. The innovative switchgear is equally ideal for new projects and modernisation. They can successfully replace cam contactors that have proven themselves over many years. DC variants will follow.

Specifications

- Series, contact configuration
  - CFS1 / CFS2 / CFS3
  - CFW4 / CFW5 / CFW6
- Nominal voltage $U_n$
  - 15 / 30
  - 1,500 V AC / 3,000 V AC
- Version / 1x per main contact
  - 1 / 2
  - 3 / 4
  - NO / NO + insulating panel
  - NC / NC + insulating panel

Note: Series is being expanded. Further variants and configurations will follow.

Ordering code

- Auxiliaries switches, number / type
  - Number: 1 / 2 / 3 / 4
  - S870 silver contacts – S870 gold contacts
  - 1 / 2
  - Monostable / monostable with control impulse
  - M / N
  - Coil voltage $U_s$
  - 24 V DC / 110 V DC
  - Conventional thermal current $I_{th}$ / 1x per main contact
    - 300 A AC, f ≤ 400 Hz: Plastic / metal extinguishing element
    - 200 A AC, f ≤ 400 Hz: Plastic / metal extinguishing element
    - 8 / 9
    - M / C
    - Y / N

CFS3 Dimension diagram, circuit diagram

- Arc chute
- Main terminal MB
  - Torque 10 Nm max.
- 4x Mounting bores Ø6.3 mm
- 4x Auxiliary switches S870

Clearance to non-insulated live parts and earth

- $B$ = 48 mm min.
- $D$ = 0 mm
- Dimensions in mm

- Dimension diagram, circuit diagram

Series, contact configuration

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