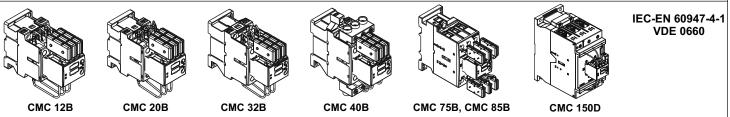
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INSTRUCTIONS FOR USE AND MAINTENANCE FOR CONTACTORS



TECHNICAL DATA

The contactor conform to the recommendations IEC-EN 60947-4-1. For the rated data see the rating plate on the contactor body side.

WARNING:

HAZARDOUS VOLTAGE CAN CAUSE ELECTRICAL SHOCK AND BURNS. DISCONNECT POWER BEFORE PROCEEDING WITH ANY WORK ON THIS EQUIPMENT.



WHEN THE SYSTEM VOLTAGE IS APPLIED AND THE LOAD IS CONNECTED. DO NOT OPERATE THE CONTACTOR BY PRESSING DOWN THE POSITION INDICATOR.

MANUALOPERATION NOT PERMITTED FOR FUNCTION TESTING.

SWITCH ONLY ONTO DISCHARGED CAPACITORS. DO NOT REMOVE PRECHARGING RESISTORS, AS THIS WOULD CAUSE THE CONTACTS TO BE DAMAGED IN SWITCHING OPERATIONS UNDER LOAD.

COIL CIRCUIT

The rated coil voltage is marked on the coil.

The excitation voltage should not deviate from the value of rated voltage more than +10% or -15%. A voltage drop of more than 15% during the closing action is not permissible beacuse might cause burning of contactor.

MOUNTING

The contactors CMC 12B, CMC 20B, CMC 32B and CMC 40B have possibility of snap-on fastening to 35mm mounting rail to DIN EN 50022, or screw mounting to plane surface using two M4 screws.

The contactors CMC 75B and CMC 85B and have possibility of snap-on fastening to 35mm and 75mm mounting rail to DIN EN 50022, or screw mounting to plane surface using two M4 or M5 screws.

The protection degree of contactors CMC 12B to CMC 150D is IP20 to IEC 60529 which mean that contactor should be mounted in dry and clean rooms. Mount the contactor on a vertical plane surface so that the terminal markings are in normal position for reading. Connect the contactor by using single wire or multi wire conductors: 1-2,5mm² single wire conductor; 0,75 - 1,5 multi wire conductor for auxiliary contacts and 1,5-6mm² for main contacts for CMC 12B; 2,5-10mm² for CMC 20B and CMC 32B; 6-25 mm² for CMC 40B; 16-35 mm² for CMC 75B and CMC 85B; 16-95 mm² for CMC 150D.

VERY IMPORTANT NOTE:

For single compensation air coils or 3-phase reactors (coils with magnetic core and air gap) are not necessary.

When the contactor is used for group (central) compensation we recommend to use appropriate 3-phase filter circuit reactors (coils with magnetic core and air gap).

At single compensation the power of selected contactor is according to capacitors rated power.

At group and central compensation the power of selected contactor has to be one step higher than capacitor's rated power (if you don't use reactors)

During exploitation, current value must not exceed the declared values. Use only HRC fuses gG type for each step for short circuit protection. Use only halogen free connection wires.

OPERATION

Observe operating voltage (see rating plate of magnet coil).

Contact endurance: 2x10⁵ make/break operations for CMC 12B; 1,5x10⁵ for CMC 20B; 1x10⁵ for CMC 32B - CMC 150D.

Switching frequency: 240/h (1 make/break operation/15s) for CMC 12B.

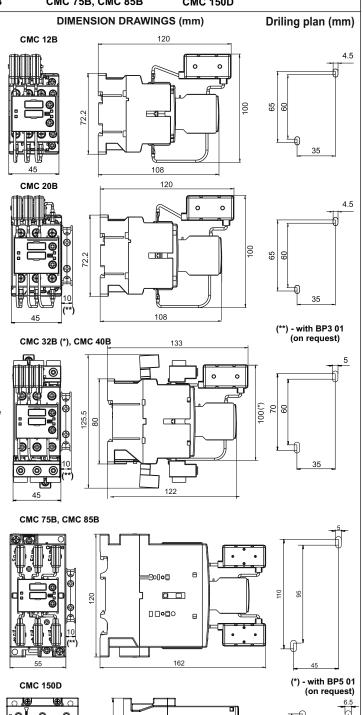
Switching frequency: 120/h (1 make/break operation/30s) for CMC 20B. Switching frequency: 100/h (1 make/break operation/30s)for CMC 32B - CMC 150D. Through the use of quick-discharge resistors, the danger of complete polarity reversal in the event of rapidly recurring closure can be excluded.

> Before switching the contactor in the circuit, The capacitor must be discharged (the voltage at the terminal must be < 50 V).

MAINTENANCE

Remove dust with compressed air. Foreign bodies on the magnet pole faces causes humming. If necessary clean the pole faces carefully. Do not use a chemical substances or sharp object for cleaning.

If there is still hum, replace the contactor (it has worn out).

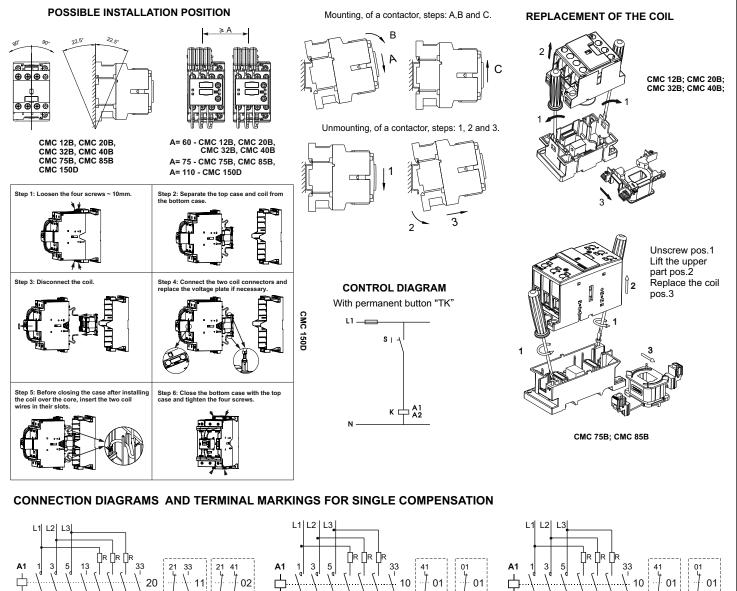


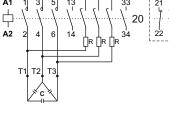
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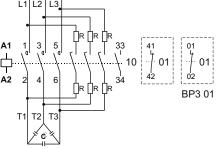
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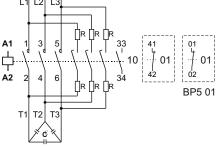
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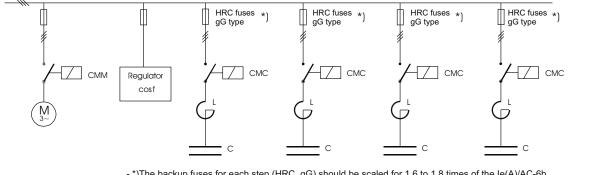
CMC 150D

CMC 12B

CMC 20B; CMC 32B; CMC 40B; CMC 75B; CMC 85B

CONNECTION DIAGRAM for GROUP (CENTRAL) COMPENSATION

380/400 V / 50Hz



- *)The backup fuses for each step (HRC, gG) should be scaled for 1,6 to 1,8 times of the le(A)/AC-6b.

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