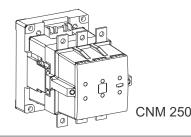
<u> RADE KONČAR KONTAKTORI I RELEI D.O.O.</u>

INSTRUCTIONS FOR USE AND MAINTENANCE FOR CONTACTORS

CNM 110; CNM 140; CNM 170; CNM 200 CNM 250; CNM 315; CNM 400

MOUNTING OF THE CONTACTOR, MAINTAENANCE AND CORRECT USE



TECHNICAL DATA:

Contactors are designed, tested and they are fully in accordance with CSA standards, also contactors are conformed with the international standard IEC/EN 60947-4-1 and national standards VDE 0660. For the rated data see the rating plate on the contactor upper side.

COIL CIRCUIT:

The rated coil voltage is marked on the coil. The excitation voltage should not delevate from the value of rated voltage more than +10% or -15%. A voltage drop on more than 15% during the closing action is not permissible.

INSTALLATION:

The contactor should be mounted in dry and clean rooms. Otherwise contactors should be built a cubicle or enclosed type should be used. Mount the contactor on a vertical plane surface by using M5 screws for CNM 110, M6 for CNM 140/170/200 and M10 for CNM 250/315/400, so that the terminal markings are in normal position for reading.

MAINTENANCE

Remove dust with compressed air. Foreign matter on the magnetic 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 a hum, replace the contactor (it has worn out). Replace the main contacts when they are worn down. They are worn down when the contacts resilience (see dist. "a" in Fig. A) is less than 0,5mm. Check the main contacts after a short-circuit and separate them, if necessary.

REPLACEMENT OF THE ARC CHUTE

Push in two pins with a screw-driver and turn them through 90: The arc chute can now be detached and replaced.

REPLACEMENT OF THE MAIN CONTACTS

Replacement of the moving contacts: lift the contact on one side, then pull it out together with the flexible spring on the same place as previous was. Replacement of the fixed contacts: undo the screws for fastening then fast on the new contact.

CONDUCTOR CROSS SECTIONS (mm²)

CONTACTOR		CNM 110	CNM 140	CNM 170	CNM 200	CNM 250	CNM 315	CNM 400
MAIN CIRCUIT Circular conductor with cable lug Flat bat Protective conductor with cable lug	mm² mm mm²	25-50 15x3 -	25-70 15x3 25-70	50-120 20x3 25-70	50-120 20x3 25-70	25x3	70-240 25x3 50-120	2x150 2x25x3 50-120
AUXILIARY CIRCUIT Single-wire conductor Multi-wire conductor with cable	mm² mm²	1-2,5 0,75-1,5						

IEC/EN 60947-4-1 VDE 0660

REPLACEMENT OF THE AUXILIARY CONTACT BLOCKS

If necessary replace the complete auxiliary contact block. The auxiliary contact block 1NO + 1NC can be replaced with double contact block 2NO + 2NC.

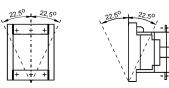
REPLACEMENT OF THE COIL

Undo the screws pos.1; lift the plate pos.2; replace the coil pos.3 (Fig.B).

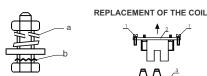
SPARE PARTS

When ordering, please quote the name of the part, the part number and quantity.

POSSIBLE INSTALLATION POSITIONS



CONNECTION OF THE MAIN CONDUCTORS

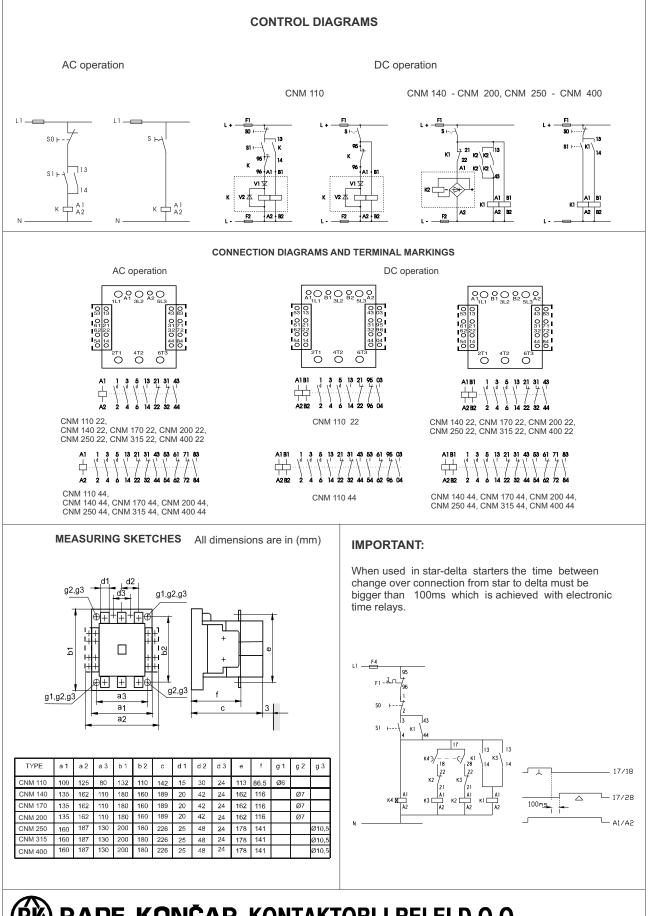


a - Spring washer

b - Tooth lock washer a=0.5mm

Fig.A

Fig.B



) RADE KONČAR KONTAKTORI I RELEI D.O.O.

1000 - Skopje, Macedonia, III Makedonska brigada br. 54 Tel./Fax++389 (0)2/ 2461-106; 2465-586; 2463620; 2463-596 E-mail:marketing@radekoncar.com.mk E-mail:export@radekoncar.com.mk; E-mail:prodaja@radekoncar.com.mk; http://www.radekoncar.com.mk

