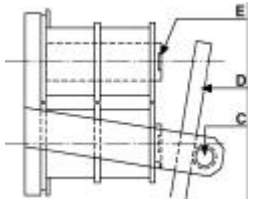
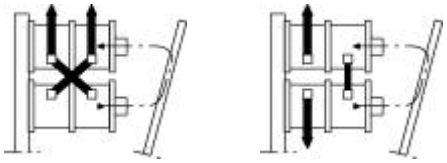
REPLACING THE CLOSING COIL



Dismantle the moving frame stop (C) and the moving frame blade (D).
Dismantle the coil stop pin (E), remove the coil after having disconnected it.
Pull all the parts back in place, taking care to position the coil correctly, properly centring blade (D). Ensure that the screws are well locked and adequately restrained.

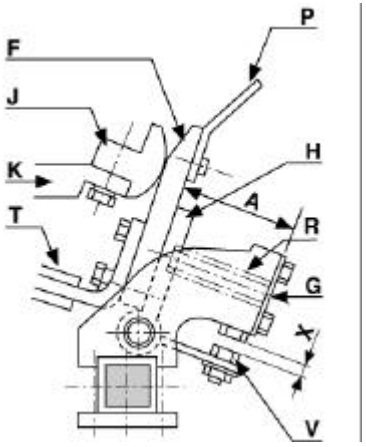
Coils :

Parallel-connected **Series-connected**



Upon receipt of the contactor, carefully note how the coils are connected to avoid any error, when possibly replaced.

REPLACING THE CONTACT



Remove the arc chute, if any:
-moving contact F
*** loosen alternately the 2 screws holding spring (R) retention plate (G).**
***Remove the retention plate and the spring**
***Dismantle the bolt and the srew holding the contact on the hinged link (H) and remove the contact (J)**
***Remove the screw holding the contact on the upper plate (K).**

Clean all surfaces of the electrical connections with a clean, dry cloth and reassemble in reverse order.
Before tightening, align the moving contact in relation to the fixed contact.
Set the moving contact wipe with the screw (V) at Y=2.8 to 3.5 mm for thermal pole(s) and at Y=4.0 to 5.5mm for blow-out poles.

Comply with the recommendations in the section entitled << POLE MAINTENANCE >>

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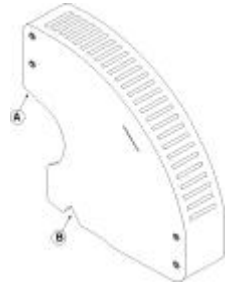
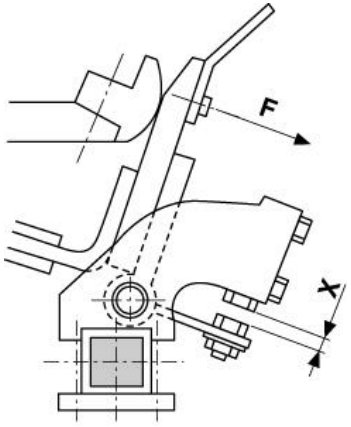
MAINTENANCE

Make sure that the attachment screws and nuts for securing the contactor and tightening the connexions remain properly locked and restrained.
Make sure that the shaft rotates freely in its bearings with a slight lateral gap (1 mm maximum)
The bearings do not need any maintenance. They are factory-lubricated for the design lifetime of the contactor.
Make sure that all the surfaces in contact from fixed and moving magnetic circuits are always clean.

POLE MAINTENANCE





Remove the arc chute, if any, by raising it of about 30 mm to release dogs A & B and pull out.
Holding the contactor closed, check the distances 'X'.
For thermal poles, X should be between 2.8 and 3.5.
For blow-out poles, X should be between 4.0 / 5.5 CEX 6 / 8.5
Should, due to the wear of the contact pins, this distance be inferior or equal to 3.9, contacts have to be replaced (inferior or equal to 1.5 for thermal pole(s) – without blow-out).

Make sure that no metal due to the arcing has been deposited on the inner walls of the arc chute and that the metallic plates are not seriously damaged.

Should a significant coat of metal appear, have it removed by rubbing lightly the wall with a scraper then blow the arc chute.

After inspection, put the arc chute back in place by tilting it backwards and engaging the dog A in the V-shaped seat of the fixed blow-out horn.. Then turn it again to vertical position by swinging and push to engage dog B.

Make sure that the moving contact(s) of the pole move(s) freely without rubbing against the inner walls of the arc chute.

The contacts practically never need any maintenance. In case slight beadings are noticed, remove them by always using a smooth file, never abrasive cloth or paper.

CLEANING SUPPORT BAR INSULATION

Not to scratch the varnish, blow out or remove dust deposits between energised parts with a soft brush. Such operation is very important when dusts are conductive and must be repeated frequently.