Index

Warning! 2

1. EL mechanism cleaning and re-greasing procedure 3
   1.1. Shafts cleaning 3
   1.2. Hooks cleaning 3
   1.3. Rollers cleaning 4
   1.4. Check cleaning effectiveness 4
   1.5. Shafts greasing 6
   1.6. Closing hook pin greasing 7
   1.7. Hooks greasing 8
   1.8. Antireclosing lever greasing 8
   1.9. Rollers greasing 8
   1.10. Other parts to be lubricated 9
   1.11. Final functional test 9
2. Disclaimer of warranties and limitation of liability 10
Read this manual carefully before attempting to install, operate or service this circuit breaker.

File these instructions with other instruction books, drawings and descriptive data of the circuit breaker. Keep this manual available for the installation, operation and maintenance about this equipment. Use of these instructions will facilitate proper maintenance of the equipment and prolong its useful life.

Install the circuit breaker within the design limitations as described in the Installation and service instructions shipped with the circuit breaker. These circuit breakers are designed to operate within the current and voltage limitations on the switch nameplate. Do not apply these switches to systems with current and/or voltages that exceed these limits.

Follow your company’s safety procedures.

Do not remove covers, open doors or work on equipment unless power has been turned off and all circuits de-energized.

Before starting maintenance

Disconnect min circuit and auxiliary circuits from the power source.

Ensure the breaker is open with closing spring discharged.
1. EL mechanism cleaning and re-greasing procedure

1.1. Shafts cleaning
For cleaning purposes use diluent such as Rivolta B.W.R 210 or Tecno Europa C18 FAST.
Clean the seats of the two shafts shown in the picture. Use a brush to help to remove old grease and dirt.

1.2. Hooks cleaning
For cleaning purposes use diluent such as Rivolta B.W.R 210 or Tecno Europa C18 FAST.
Clean the hooks and the antireclosing lever shown in the pictures. Use a brush to help to remove old grease and dirt.
1. EL mechanism cleaning and re-greasing procedure

1.3. Rollers cleaning
For cleaning purposes use diluent such as Rivolta B.W.R 210 or Tecno Europa C18 FAST. Clean the two rollers shown in the pictures. Use a brush to help to remove old grease and dirt. Verify that both rollers can rotate free.

1.4. Check cleaning effectiveness
a) Closing function
With closing spring discharged and CB in open position, turn the closing shaft and then push the hook as in the picture. Release the shaft and then release the hook. The cleaning is effective if the hook returns behind the shaft instantaneously without slow moving of either the shaft or the hook.
b) Antireclosing function
With closing spring discharged and CB in open position push down the antireclosing lever and check that it restores its position.

c) Opening function
With the closing spring charged and the CB in open position, turn the shaft and then push the hook as in the picture. Release the shaft and then release the hook. The cleaning is effective if the hook returns behind the shaft instantaneously without slow moving of either the shaft or the hook.
1. EL mechanism cleaning and re-greasing procedure

1.5. Shafts greasing

Before regreasing remove the cleaner by means of pressurized air. Lubricate the seats of the three shafts shown in the picture on the inside of the sidewalls with Kluber Isoflex Topas NB 52 spray version.
1.6. Closing hook pin greasing

Lubricate the pin shown in the picture with Kluber Isoflex Topas NB 52 spray version.
1. EL mechanism cleaning and re-greasing procedure

1.7. Hooks greasing
Grease the hooks as below with Kluber Isoflex Topas NB 52 spray version.

1.8. Antireclosing lever greasing
Grease the antireclosing lever as below with Kluber Isoflex Topas NB 52 spray version.

1.9. Rollers greasing
Grease the two rollers with Kluber Isoflex Topas NB 52 spray version, keeping the hook under the shaft.
1.10. Other parts to be lubricated

Grease other parts of the operating mechanism in the shown areas using Kluber Isoflex Topas NB 52 spray version.

1.11. Final functional tests

After regrease, repeat 10 times the checks listed in sub-clause 1.4 (closing function, antireclosing function, opening function).

Finally perform 30 complete operations: charge - close - recharge - open - close - open, 15 operations shall be carried out manually (closing/opening by pushbuttons, spring charging by lever) and 15 electrically (closing/opening by coils, spring charging by motor), checking the correct functionality of the breaker.
2. Disclaimer of warranties and limitation of liability

Disclaimer of warranties and limitation of liability

– There are no understandings, agreements, representations of warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose, other than those specifically set out by an existing contract between the parties. Any such contract states the entire obligation of the seller. The contents of this document shall not become part of or modify any prior or existing agreement, commitment or relationship.

– The information, recommendations, descriptions and safety notations in this document are based on ABB experience and judgment with respect to circuit breakers. This information should not be considered to be all inclusive or covering all contingencies.