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Operation – and Assembly Instruction



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SF₆-insulated Switchgear Type MINEX-E 12-36kV

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Place the switchgear on plain and horizontal concrete foundations or intermediate frames with sufficient capacity to avoid the deformation of the switchgear cubicles.

Preliminary measures:



- Check the completeness of the necessary components and tools.

Einzelteile:

- 1. 3 coupling isolation parts
- **2.** 1 tube fitting lubricant
- 3. 3 tension springs
- 4. 6 cylinder head screws M8x50 with big discs, spring rings and half bolts
- 5. 5 spacing bush
- 6. 4 hexagon head screws M12x55 with spring rings and bolts
- 7. 1 hexagon head screw M12x70 with disc, 2 spring rings and 2 bolts
- **8.** 2 distance sheet steel
- 9. 2 hexagon head screws M8x30 with spring rings and bolts1 drawing HB71553-001 (appendix to this manual)

Assembly tools: (does not belong to the scope of delivery)

2 parallel clamps 4 spuare assembly aids (i.e. 25er spuare tube) Screw wrench

Assembly sequence:

- Lead fixing screws M12x55 (6) according to the instructions on the drawing HB71553-001 through the holes provided in the base box.
- 2) Lead the fixing screws M12x70 (7) through the holes provided in the front area of the base box.
- 3) Screw the spacing bushes (5) tight as shown.



 Replace two non-sealed inner hexagon screws per phase by the cylinder head screws (4), if these are not factory available. Coat the coupling isolation part (1) with the supplied fitting lubrication (2). Place the coupling isolation parts into the internal cone bushings of a cubicle.



5) Tension the spring (3) for earthing of the cubicle control into the slot of the coupling isolation part between the earthing studs (cylinder head screw (4)).





6) Place the switching cubicles that way side by side, that the coupling isolation parts and the internal cone bushings towards each other. Coincident the screws in the base box have to be towards the holes.





- 7) Lead the switching cubicles parallel together. Take care not to tilt the cubicles.
- 8) First secure the two switching cubicles in the base box by easy screwing the bolts.



9) Place each in the front and rear the square assembly aids on to the sides above the switching cubicles. Set the parallel clamps on to the square assembly aids.





- 10) Assemble the switchgear cubicles up to a residual gap of about 10 mm between the sides by evenly tightening of the screws in the base case and the parallel clamps.
- 11) Place the screws M8x30 into the holes provided, and tighten these hand-tight (see drawing HB71553-001 Pos. 5).



- 12) Loosen the clamps and put them aside.
- 13) Place the delivered distance sheet steels (8) between the sides whereby the grooves grab over the screws (see drawing HB71553-001 Pos. 3 and 5).
- 14) Tighten the switching cubicles with the screws together until the cubicles are close to each other without a gap.
 The switching subicles are connected in the right way, when the subicle front is gap free.

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Coupling of the Anti-Burst-System



Do not push the screws (1) sideways.

During works under electrical voltage the screw (1) in the blue circle shall not be pushed to the left, because the ABS would release. Pushing backwards the slide please secure or block the screw, so that a pushing is not possible.

Additional hints to extend an existing switchgear



Expand an end cubicle

Dismantle the voltage-proof tubing plugs on the side to expand the existing switchgear.

Assemble the 6 cylinder head screws (4) into the free upper threads and act further on as described under point 4 and 5.



Remove 3 screws at each phase, reuse one of them!

Assembly of the tubing plugs in the new end cubicle

Remove the nine non-sealed screws (see point 4) on that side of the cubicle, where the voltageproof tubing plugs have to be installed.

Three of the screws have to be screwed in the remaining free threads of the switchgear to expand.

Purify the tubing plugs and coat them with the delivered fitting lubricant (2).

Assemble the voltage-proof tubing plugs.





Do not loosen sealed screws.

For coupling of the switching cubicles please proceed as described under point 1 – 14!

If you have questions please contact the service department of company Fritz Driescher KG in Wegberg, phone 0049 (0)2434/81-1