



Technical Instruction MA7_5662550_02_en

MA7, MA7/8

Checks to be performed in case of tripping of the motor protective switch type MA7, MA7/8

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Regensburg, 2023-04-27

NOTICE

Safety, hazard and other information included in the MR operating instructions for on-load tap-changers type MA7, MA7/8 must be observed!

The instruction describes the checks to be performed when the motor protection trips.

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1 Checklist tripping of the motor protective switch

1. Motor-drive unit type _____ , serial no. _____ , operation counter reading on the unit _____
2. When was the transformer put into service? Date: _____
3. When did the tripping of the motor protective switch occur, at what time, and how often did the tripping occur since that time?

4. Did the tripping of the motor protective switch occur always at the same time or did it occur only sporadically?

5. In which service position did the tripping of the motor protective switch occur?

6. Did the tripping of the motor protective switch always occur always in the same position and in both directions?

7. Did the tripping of the motor protective switch occur at the beginning, during or at the end of a tap-change operation?

8. Does the motor-drive unit stop before or after the red mark in the green zone on the tap-change indication wheel after completion of a tap-change operation?

9. Please indicate the ambient temperature of the motor-drive unit:
_____ °C
10. Compare the tripping range set on the motor protective switch with the data on the motor-drive unit nameplate.
Value set on the motor protective switch:
_____ A
11. How is the arc intensity on the brake contactor K3 and on the motor contactors K1 and K2 during contact opening and closing?

12. Check the phase sequence at the motor terminals L1, L2, L3 - clockwise yes / no
13. Do fluctuations of the motor-drive unit supply voltage occur? yes / no
If so, how large are these fluctuations?
U_{Nenn}: _____ V, U_{max}: _____ V, U_{min}: _____ V
14. Measure the motor voltage (3 phases)
L1= _____ V, L2= _____ V, L3= _____ V
15. Measure the motor current (3 phases)
L1= _____ A, L2= _____ A, L3= _____ A
16. Check the step-by-step unit:
 - a) for breakage or easy movement of the return spring
 - b) for correct return of the switching lever after completion of a tap-change operation.

