TURNS ON HAND CRANK OF MOTOR DRIVE MECHANISM

POS. RAISE OPERATION POS. LOWER OPERATION POS.
n n+1 0 5 10 14 15 0 5 10 14 15

K1 Contactor, step-by-step operation
K2 Contactor, raise
K3 Contactor, lower
K4 Bistable relay
K601 Time relay, running-through protection
K602 Time relay, tap-change incomplete
K701 Undervoltage relay, motor circuit
K702 Undervoltage relay, control circuit
M1 Motor
Q1 Protective motor switch
S1 Control selector switch
S2 Control switch
S3/S4 Cam operated contacts
raise/lower
33–34 Maintaining contact
41–42 Interlocking contact
13–14, 21–22 Auxiliary contact
S5 Interlocking switch, open when hand crank is fitted
S6/S7 Limit switch, upper/lower
limit position
S8 Push button "EMERGENCY STOP"
S15 Continuation contact
X Terminal board group

FOR HEATER, LIGHT CIRCUIT AND
TAP-POSITION TRANSMITTER No. S14 ETC,
SEE SEPARATE DIAGRAMS.

- Raise operation
- Remote control
- Lower operation
- Local control
- Upper limit pos.
- Protective earth
- Lower limit pos.
- Crank

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Approved 2002-12-12 THLA

Motor-Drive Mechanism
Circuit Diagram

ABB

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Sheet 1
Rev 1