

NS080

Motor Operating Mechanism



CHARACTERISTICS – INNOVATIONS

- Significant simplification of the control system due to reducing the number of controlling elements
- Elimination of classic control system: lack of contactors, thermal, overload and short circuit protection, phase loss sensor – all these functions are done by inverter
- Full control of voltage-current parameters of the motor
- Reduction of the start-up current of the motor
- Even torque of the motor at full range
- Flexible speed adaptation of the apparatus' closing/opening (110 – 420kV)
- Compensation of reactive power

WIRING DIAGRAM

In order to configure, connect motor's wires as shown below:

$$U = U1 + V2$$

$$V = V1 + W2$$

$$W = W1 + U2$$

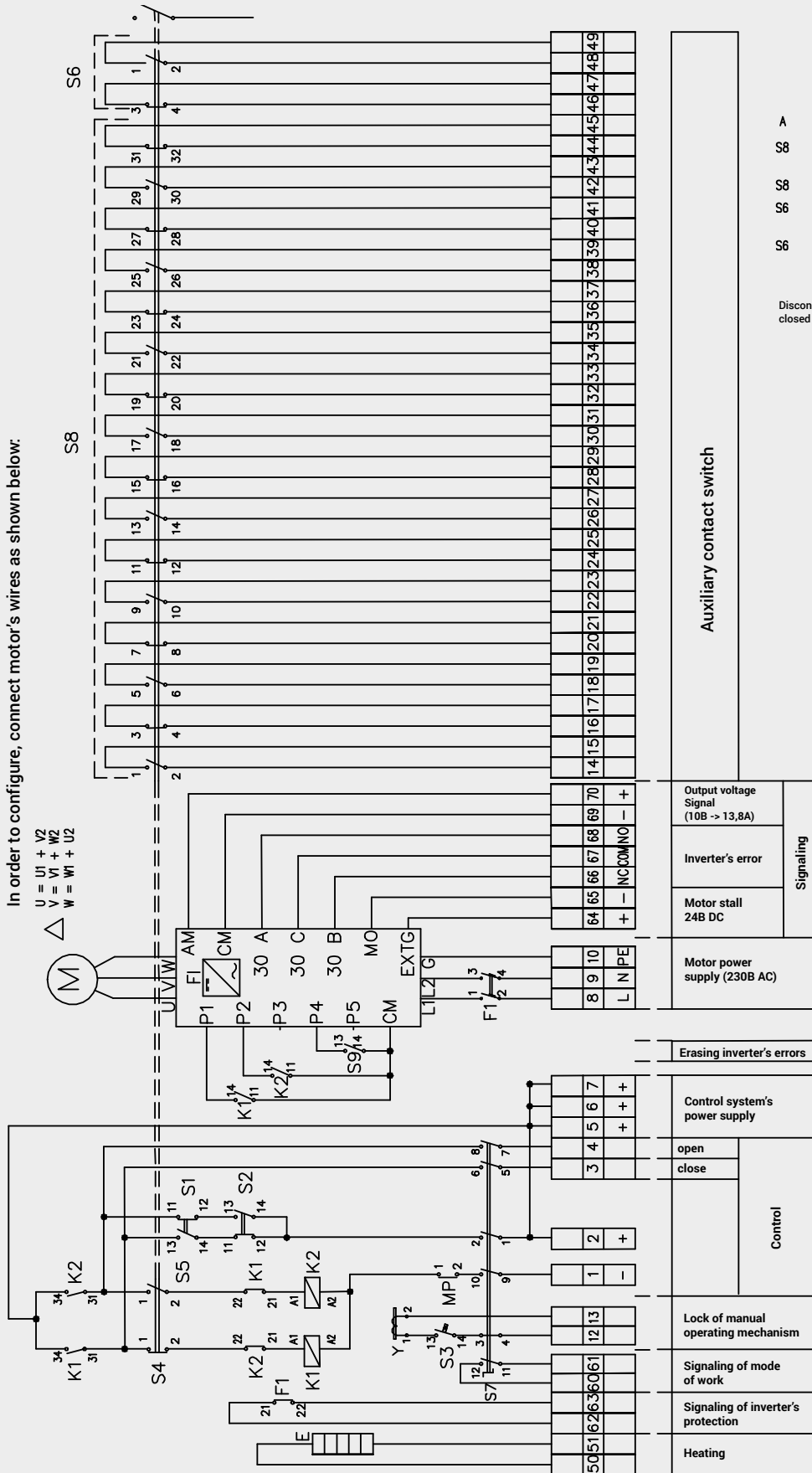
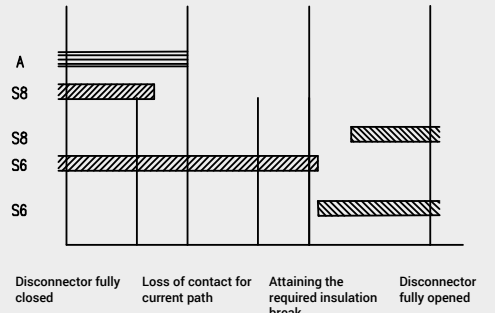


Diagram of cooperation of main disconnectors' contacts with auxilliary contacts



- K1 - Closing relay Relpol R3N + Slot GZT3
- K2 - Opening relay Relpol R3N + slot GZT3
- F1 - Inverter
- S1 - Close button
- S2 - Open button
- S3 - Releasing the lock of manual operating mechanism's crank button
- S4 - Closing limit switch
- S5 - Opening limit switch
- MP - Microswitch of manual operating mechanism's crank
- S6 - Contacts for differential securing of collective busbars
- S7 - Type of control switch(remote-local-manual)
- S8 - Auxiliary contact switch
- S9 - Resetting inverter's errors button
- E - Heater
- M - Electric motor
- Y - Coil of manual operating mechanism's crank lock
- F1 - Circuit breaker for motor's circuit CIS6-C20/2 + auxiliary contact Z-AHK
- A - High voltage switch

Remarks:
Shown: S7 in position: 'manual control'

S7 - Connections scheme

Position of the switch	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16
Remote control								
Local control(motor)								
Manual control								