Frequency-regulated drive control station «FDS-ACS»

The main element of complete device is frequency converter type «ACS550», which provides as follows:

- drive acceleration and slowdown with prescribed pace
- rotating frequency regulation in accordance with specified value
- required protections of electric drive and converter components

Figure 1

List of main protections, provided with frequency converter from:

- short circuits
- overloads
- jammings
- voltage increase
- voltage decrease
- phase failure

List of frequency drive stations with nominal power

Type	Power (kW)	Current (A)	Size (WxHxD)
FDS-7,5/400	7,5	15,4	700x1000x450
FDS -11/400	11	23	700x1000x450
FDS -15/400	15	31	850x1200x550
FDS -18,5/400	18,5	38	850x1200x550
FDS -22/400	22	45	850x1200x550
FDS -30/400	30	59	850x1200x550
FDS -37/400	37	72	850x1200x550
FDS -45/400	45	87	850x1200x550

“ABB” equipment uses for assembly of control stations:

- Frequency converters ACS 550
- Digital time limit relay D1
- Automatic switches
- Switching equipment
- Light-signalling hardware

Figure 2

Climatic equipment of “ PFANNENBERG” firm:

- Fans
- Outlet filters
- Heaters
- Temperature relays

Figure 3

Equipment arrangement inside the cabinet

Figure 4

1. Frequency converter
2. Automatic switches
3. Digital time limit relay
4. Microclimate support equipment
5. A number of terminal clamps

Control and indication elements at external door

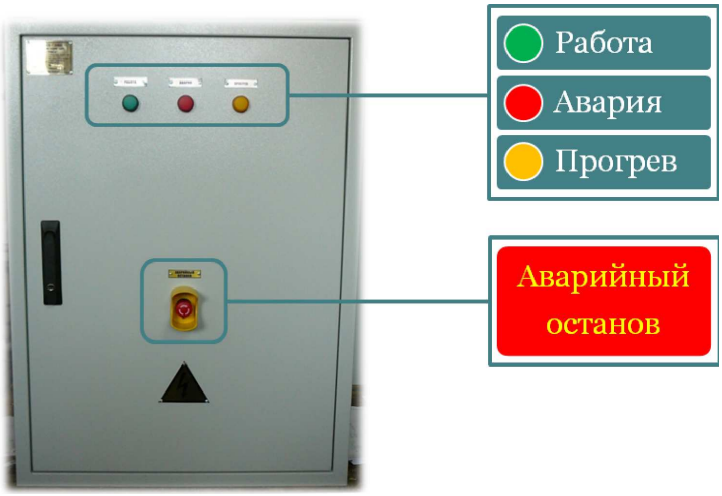

Figure 5

Control and indication elements at internal door

Рисунок 6 Figure 6

1. Frequency converter panel:
   - Frequency specified value
   - Present frequency value
   - Present current value
   - Present torque value
   - Errors and warnings

2. Control buttons:
   - Start/Stop
   - Operation mode
   - Frequency specification

Station is destined for operation in atmosphere, not having aggressive gases and vapors, which can lead to corrosion within working temperature intervals from -40 to +50°C.

Figure 7