

System of electrosecurity and protection

DESCRIPTION:

The complex system of electrosecurity and protection of underground structures from concrete steel, especially those available to subway tunnels, assures simultaneously:

- Decreasing down to the elimination of destructive effects of DC dispersion currents produced by subway, on their own metallic structures but also on nearby;
- Decreasing the destructive effect of DC dispersion currents produced by tram circulation, on resistance structures from concrete steel for subway and for base of structures from tram and / or subway;
- Treatment for AC stray currents which accelerate the corrosion of resistance structures from concrete steel.

The protection is obtaining by implementation of specialized device, licensed in this scope.



Homologated devices:

Polarized drainage device in back centers of DDPCI-4-S-S type;

Notation:

DDPCI - polarized drainage device in back centers;

4 - number of rectifier diode connected in parallel;

SS - alarm fuse with LED burnt fuse.

Technical characteristics:

Overload current supported: 2000 A cycle 2s / 88s;

Environment temperature: -25...+60°C;

Maximum relative humidity: 98 % la 20°C.

Polarized drainage device distributed of DDPD-35 and DDPD-75 type;



Notation:

DDPD - polarized drainage device distributed;

35 respectively 75 - nominal voltage of Zener diode;

Technical characteristics:

Overload current supported: 140 A cycle 2s / 88s.

Protection backing-off voltage: 35V±5V respectively 75V±5V.

Electric decoupling device distributed of DDED type;



Notation:

DDPD - electric decoupling device distributed

Technical characteristics:

Overload current supported: 70 A cycle 2s / 88s;

Protection backing-off voltage: 33V±5V.

Electroprotection device and polarized drainage to ground plates of DEDP type



Notation:

DE - electroprotection device;

DP - polarized drainage.

Technical characteristics:

Overload current supported: 130 A cycle 2s / 88s;

Protection backing-off voltage: 35V±5V

USERS

METROREX, public transport companies – tram.