

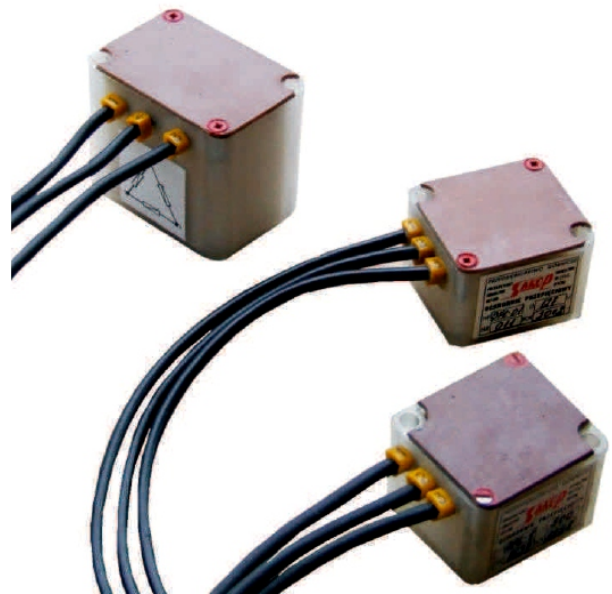
LOW VOLTAGE SURGE ARRESTERS FOR NETWORKS WITH RATED VOLTAGE UP TO 1500V

APPLICATION AREA

Low voltage surge arresters are designed to protect insulation of electric machinery as well as cables and conductors from possible damages caused by voltage surges that may be associated with commutations during regular operation and tripping of emergency devices in circuits with vacuum switching devices.

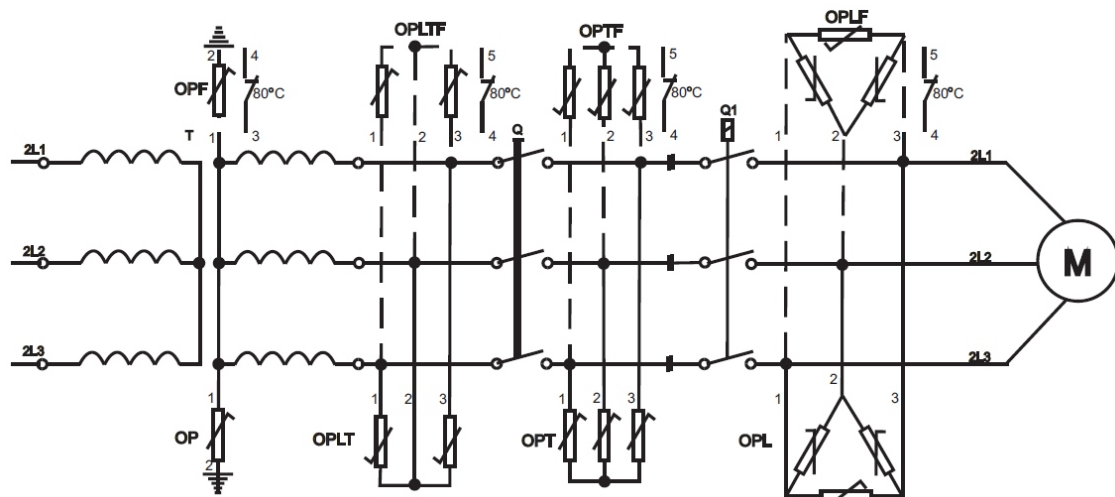
TYPES OF SURGE ARRESTERS

- OPL – surge arresters designed for three-phase electric networks and arranged according to the star layout to protect conductors, transformers and electric motors
- OPLT, OPT – surge arresters designed for three-phase electric networks and arranged according to the star layout to protect conductors (cable networks) and transformer stations
- OP – surge arresters designed for single-phase electric networks to protect transformer stations with compensating and measuring chokes
- Surge arresters distinguished with the 'F' letter in their product codes are provided with protection against temperature flow of the varistor block



TECHNICAL PARAMETERS

Rated voltage of surge arrester U_f (RMS voltage)	190 ÷ 1540V
Voltage for undisturbed operation of surge arrester U_c (RMS voltage)	175 ÷ 1420 V
Rated discharge current	1500 A
Reference voltage U_{ref} (for the current of 1 mA)	0.3 ÷ 5.2 kV
Residual voltage U_{res}	0.5 ÷ 8 kV
Non-linearity factor $\alpha \geq$	30



Schematic diagram for voltage surge protection in a low-voltage (LV) supply network for mining applications