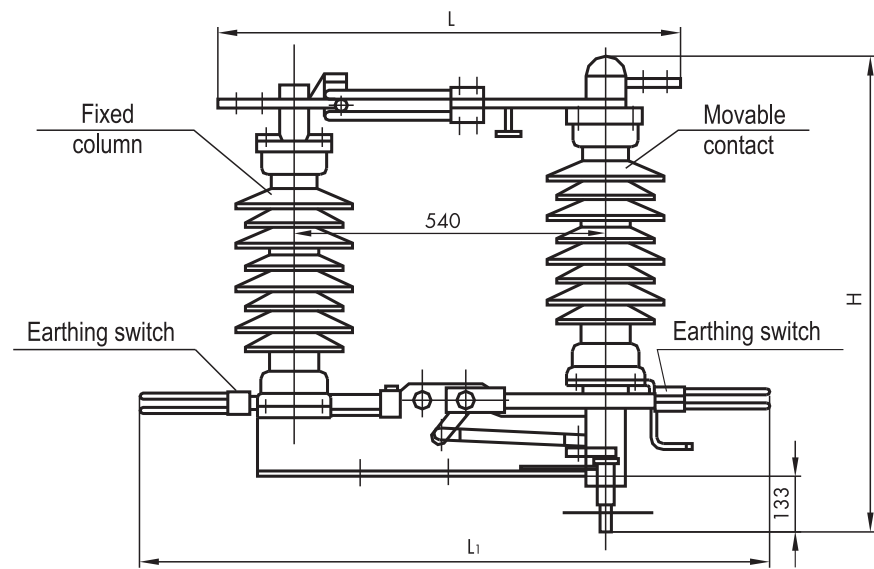
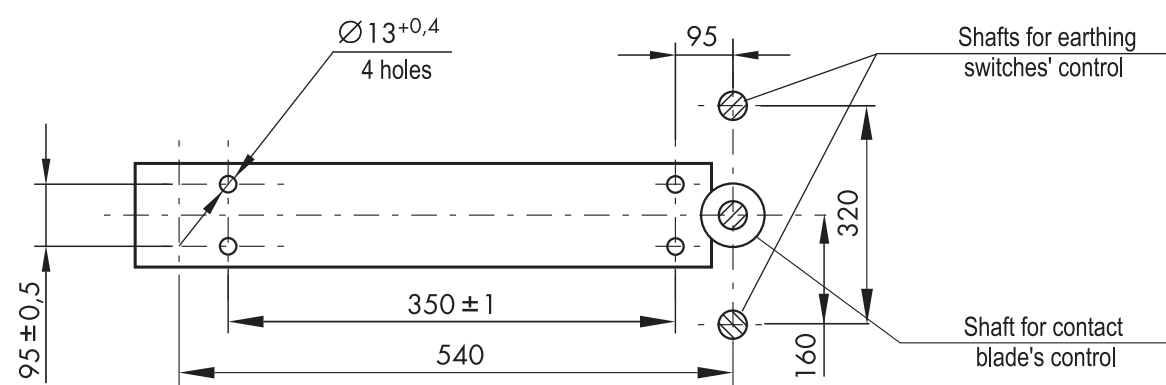


# Overall and setting dimensions

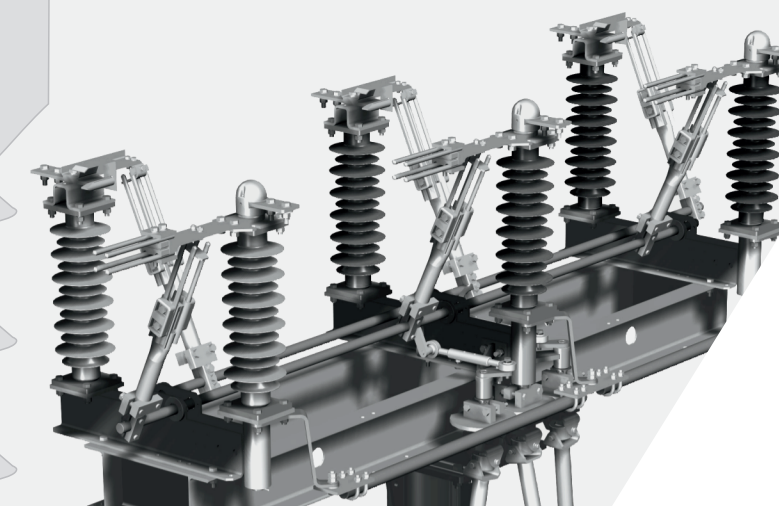


Disconnector's pole

Type version	L	L <sub>1</sub>	H	Mass*, kg, no more
RG-35/1000 UKHL1	790	1112	830	53,9
RG-35.II/1000 UKHL1			70,3	
RGP-35/1000 UKHL1	805	1180	875	50,1
RG-35/2000 UKHL1			61,9	
RG-35.II/2000 UKHL1	917	1180	980	70,3
RGP-35/2000 UKHL1			55,9	
RG-35/3150 UKHL1	917	1180	980	107
RG-35.II/3150 UKHL1			115	
RGP-35/3150 UKHL1				102



Arrangement of holes for fastening in disconnector's poles



## Disconnectors of RG series for 35 kV voltage

### Intended use

Disconnectors are intended for closing and opening de-energized sections of electric circuits alive and for earthing opened sections with earthing switches.

Disconnectors can be used also to interrupt transformers' excitation currents and charging currents of overhead and cable lines.

### Service conditions

- ⚡ Disconnector can be operated outdoors at ambient temperature from -60° up to +40°C.
- ⚡ Ice thickness at icing is 20mm.
- ⚡ Wind speed at icing is no more 15m/s.

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## Main technical characteristics

Disconnectors' designation	1000 A			2000 A			3150 A								
	RG-35/1000 UKHL1	RG-V-35/1000 UKHL2	RG-35.III/1000 UKHL1	RG-V-35.III/1000 UKHL2	RGP-35/1000 UKHL1	RGP-V-35/1000 UKHL2	RG-35/2000 UKHL1	RG-V-35/2000 UKHL2	RG-35.III/2000 UKHL1	RG-V-35.III/2000 UKHL2	RGP-35/2000 UKHL1	RGP-V-35/2000 UKHL2	RG-35/3150 UKHL1	RG-V-35/3150 UKHL2	RG-35.III/3150 UKHL1
Rated current, kA	1000			2000			3150								
Peak withstand current, kA	50			80			100								
Short-time withstand current, kA	20			31,5			40								
Duration of short-time withstand current, s							3								
- for contact blade							1								
- for earthing switches															
Test short-time (one-minute) power frequency voltage, kV							95								
- relative to ground and between poles							120								
- between open contacts															
Lightning impulse test voltage 1.2/50µs, kV:							190								
- relative to ground and between poles							220								
- between open contacts															
Creepage distance of external insulation, no less, cm	75	105	116	75	105	116	75	105	116	75	105	116	75	105	116
Admissible mechanical load on terminals, N	500			800											

## Construction

- Disconnectors are intended for closing and opening de-energized sections of electric circuit alive and for earthing opened sections with earthing switches.
- Connecting dimensions of new disconnectors have been chosen taking into account a possibility of their installation on existing support structures of RDZ disconnectors.
- Disconnectors are two-column devices with contact blades' turn in horizontal plane. Disconnectors consist of main current-carrying system, support-rotating insulation, carrying frame and earthing switches.
- Disconnectors' contact blades are made from copper buses, to which lamellas from bronze alloy are attached.
- Output contacts are made with transient contact rollers and are hermetically sealed. This provides stable contact pressure within the whole service life and small operation forces on manual drive's handle. Contact surfaces of detachable and output contacts are silver-plated.
- Disconnectors are completed with polymer or high-strength porcelain insulators.
- Control of disconnectors and earthing switches' main contact blades can be realized both by PD-14UKHL1 electric motor drives and PRG-5UKHL1 manual drives. PRG-5UKHL1 drives are completed with switching devices of KSAM 12 type and updated electromagnet interlock of 3B-1M type with KEZ-1M electromagnetic key and KM-1 key for emergency unlocking.

## Advantages

RG disconnectors have the following advantages in comparison with RDZ disconnectors produced until the present time:

- ⊕ Least costs for maintenance during operation:
  - contact surfaces are galvanic tin-plated or silver-plated,
  - constructional elements made from ferrous metal have stable anticorrosive coating of hot and thermodiffusion zinc,
  - closed bearings with long-term grease in them not requiring maintenance within the whole service life are used in rotary columns' bases and in sliding contact of main current-carrying circuit.
- ⊕ Reliability of contact system (no flexible couplings in the construction, sliding contact is used).
- ⊕ Disconnectors can operate at icing up to 20mm, whereas RDZ disconnectors can operate at ice thickness up to 10mm.
- ⊕ Inter-column rod is absent.
- ⊕ No extra charges for customer while mounting:
  - connection elements between poles and between disconnector and drive not requiring welding are included into supply set,
  - a possibility to supply disconnector on carrying metal structure,
  - a bracket for drives' installation mounted directly on ferroconcrete support is included into supply set.

## Symbolic designation

Horizontal installation - RG.XX<sub>1</sub> - X<sub>2</sub>X<sub>3</sub>/X<sub>4</sub>UKHLX<sub>5</sub>; RGP.XX<sub>1</sub> - X<sub>2</sub>X<sub>3</sub>/X<sub>4</sub>UKHLX<sub>5</sub>  
 Vertical installation - RG.V.XX<sub>1</sub> - X<sub>2</sub>X<sub>3</sub>/X<sub>4</sub>UKHLX<sub>5</sub>; RGP-V.XX<sub>1</sub> - X<sub>2</sub>X<sub>3</sub>/X<sub>4</sub>UKHLX<sub>5</sub>

- R - Disconnector;
- G - Horizontal - rotary type;
- P - With polymer insulation corresponding to IV degree of atmosphere pollution as per GOST 9920-89, with specific conductivity of pollution layer no less 30µcm (for disconnectors with porcelain insulation a letter is absent);
- X<sub>1</sub> - Number of earthing switches (1 or 2);
- X<sub>2</sub> - Arrangement of earthing switches (a - from the side of fixed column, b - from the side of movable column);
- X<sub>3</sub> - Rated voltage, kV;
- X<sub>4</sub> - II is index designating degree of insulation pollution as per GOST 9920 (for slight degree of pollution and for disconnectors with polymer insulation a figure is absent);
- X<sub>5</sub> - Rated current (1000, 2000 or 3150), A;
- UKHL - Climatic version;
- X<sub>6</sub> - Arrangement category as per GOST 15150 (2 - for RG-V-35 disconnectors of vertical installation, 1 - for all other disconnectors' types).

