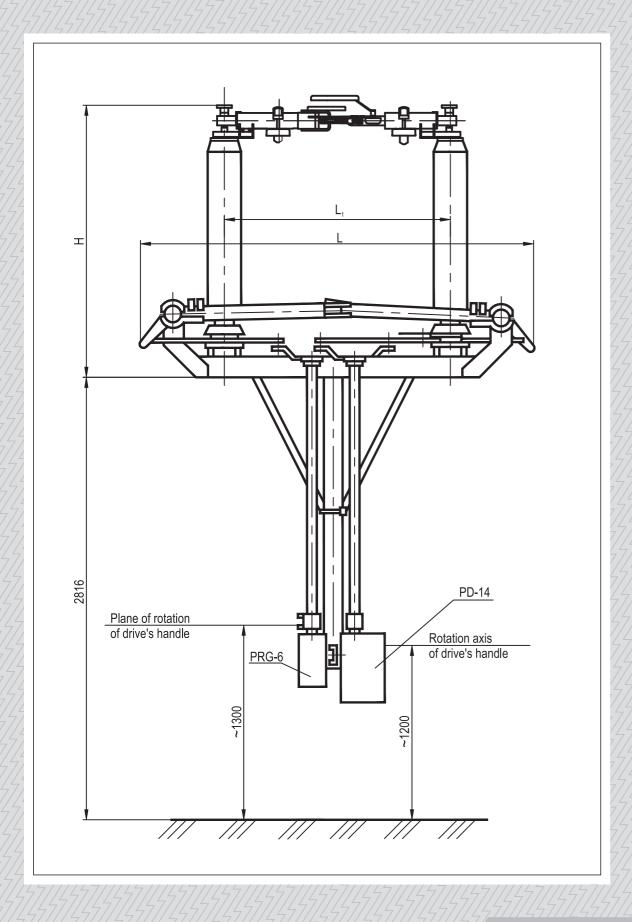
Overall dimensions







Disconnectors of RG series for 110 and 220kV voltage

Intended use

Disconnectors are intended for closing and opening deenergized 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.

Operating conditions

- 5 Disconnectors can be operated outdoors at ambient temperature from -60° up to +40°C.
- Ice thickness at icing is 20mm.
- Wind speed is no more 40 m/s without icing, no more 15m/s at icing.
- Seismic resistance of 9 points on the MSK-64 scale.
- 1 Installation height above sea level not exceeding 1000m.

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Main technical characteristics

Disconnectors' designation	RG-110/1000-40 UKHL1 RG-110.II/1000-40 UKHL1 RG-K-110/1000-40 UKHL1 RG-K-110.II/1000-40 UKHL1 RGP-K-110/1000-40 UKHL1	10/2000-50 U 10.II/2000-50 10/2000-63 U	RG-110/3150-63 UKHL1 RG-110.II/3150-63 UKHL1 RGP-110/2000-50 UKHL1	RGN-110/1000-40 UKHL1 RGN-110.II/1000-40 UKHL1 RGN-K-110.II/1000-40 UKHL1 RGN-SK-110.II/1000-40 UKHL1 RGN-SK-110.II/1000-40 UKHL1 RGN-V-110.II/1000-40 UKHL2 RGN-V-110.II/1000-40 UKHL2	RGNP-110/1000-40 UNHL1 RGNP-K-110/1000-40 UKHL1 RGNP-SK-110/1000-40 UKHL1 RGN-110/2000-50 UKHL1 RGN-110.II/2000-50 UKHL1 RGN-SK-110/2000-50 UKHL1	RGN-110/3150-50 UKHL1 RGN-110.II/3150-50 UKHL1 RGNP-110/2000-50 UKHL1 RGNP-SK-110/2000-50 UKHL1 RGNP-110/3150-40 UKHL1	RG-220/1000-40 UKHL1 RG-220.II/1000-40 UKHL1 RG-220/2000-50 UKHL1 RG-220.II/2000-55 UKHL1 RG-220/2000-55 UKHL1	RG-220.II/2000-55 UKHL1 RG-220/2000-63 UKHL1 RG-220.II/2000-63 UKHL1 RG-220/3150-63 UKHL1 RG-220.II/3150-63 UKHL1	RGN-220/1000-40 UKHL1 RGN-220.II/1000-40 UKHL1 RGN-220/2000-50 UKHL1 RGN-220.II/2000-50 UKHL1		RGP-220/1000-40 UKHL1 RGNP-220/1000-40 UKHL1
Rated current, kA	1000	2000	3150 2000	1000	2000	3150 2000 3150		00 3150	1000 2	2000 3150	1000
Peak withstand current, kA	1000	125 160	160 125	100		125 100	100 125 13	160	100 125	138 160 160	100
Short-time withstand current, kA	40	50 63	63 50	40		50 40	40 50 5	5 63	40 50	55 63 63	40
Test short-time (one-minute) power frequency voltage, kV - relative to ground and between poles - between open contacts		230 265			230 230	·	46			440 460	460 440 530 460
Lightning impulse test voltage 1.2/50µs, kV: - relative to ground and between poles - between open contacts		550 630			450 570		10 12			900 1100	1050 900 1200 1100
Overall dimensions - L - L - H	1680	2250 1400 1715	1785 1715	2140 2320	2140 1240 1550	1620 1550 1620	41 26 2870		2	2940 2250 2690 2723	4120 2940 2620 2250 2870 2723

Construction features and advantages

- High-strength porcelain and polymer insulators recommended by OJSC "Federal Grid Company" are used in disconnectors, their degree of pollution can vary from I up to IV as per GOST 9920.
- Insulation of RG disconnectors in comparison with RGN and RDZ disconnectors withstands higher lightning impulse test voltages relative to ground and between poles so they can be operated in the regions of high mountains.
- Reliable contact systems and connections provide working capacity at working loads and high stability to short-circuit currents.
- All contact surfaces of current-carrying circuit are galvanic tin-plated or silver-plated, plate-like silver with mechanical life up to 10000 cycles is used in detachable contacts.
- All necessary means for contact parts' protection to provide reliable operation in severe icing conditions (30mm) are available.
- Contact terminal is made symmetrically relative to insulator's axis and allows connection both flexible and rigid busbars without transition elements.
- Farthing switches are reliably fixed in their closed position from kicking forces at short-circuit currents.
- Mechanical interlock is available.
- Minimal efforts while operation due to the usage of out-of-service bearing units with closed ball bearings and hinge joints not requiring lubrication in all friction units.
- Reliable anticorrosive protection of ferrous metals with hot or thermodiffusion zinc, nonferrous metals with galvanic tin.
- Screen fittings, anti-icing casings are made from aluminum alloys.
- 7 Disconnectors are equipped with PD-14 electric motor drives meeting all up-to-date requirements and having several advantages:
 - drives' cubicles are manufactured from stainless steel.
 - access inside the cubicle is from three sides (serviceability),
 - high-quality components are used,
 - cubicle's construction excludes water entry inside it,
 - it is completely adapted to automated control system of technological process,
 - a possibility of manual operation (a handle is fixed inside the cubicle).

- PRG-6 manual drives have nonremovable folding handles.
- Trives are completed with switching devices of KSAM 12 type and electromagnet interlock, they are arranged in usable and serviceable zone of a bracket included into supply set.
- 5 Disconnectors' supplies are made as enlarged units, completed with connecting elements allowing mounting without welding; frames and supports for disconnector's installation are supplied as per order.
- Connecting dimensions of RG disconnectors coincide with replaceable RDZ series.
- All RG disconnectors possess high performance characteristics excluding maintenance during the whole service life and fully meet up-to-date requirements.

Symbolic designation

 $RG(N) (P)X_1X_2-X_3-X_4X_5/X_6-X_7 UKHL1 (2)$

- R Disconnector;
- G Horizontal-rotary type;
- N 47 / Normal insulation level as per GOST 1516.3; with higher level a letter is absent;
- With polymer insulation corresponding to II degree of atmosphere pollution as per GOST 9920 (for disconnectors with porcelain insulation a letter is absent);
- X₁//_/ Number of earthing switches (1 or 2);
- X₂ / Arrangement of earthing switches (a from the side of main blade with lamellas, b from the side of contact blade with "cam");
- X₃ / / For in-series, step-in-series or vertical installation (K, SK or V);
- X₄ Rated voltage (110 or 220), kV;
- X_s 2-7 /- II is index designating degree of insulation pollution as per GOST 9920 (for slight degree of pollution figure I is not indicated);
- X₆ // Rated current (1000, 2000 or 3150), A;
- X, Short-time withstand current (40; 50; 55 or 63), kA;

UKHL1(2) - Climatic version and arrangement category as per GOST 15150.