GRID
INFRASTRUCTURE SOLUTIONS

40.5kV ~ 252kV DISCONNECT



145kV Disconnect



40.5kV Disconnect

Applications:

GRID offers a comprehensive range of three-phase AC 60Hz high-voltage disconnects designed for outdoor applications, providing reliable isolation of electrical equipment from energized circuits under no-load conditions. Engineered for use in power systems with rated voltages from 40.5kV to 252kV, this disconnect ensures safe maintenance operations and clear visual disconnection in substations and other high-voltage environments.

Features:

- **Reliable Performance:** Designed with robust linkages and corrosion-resistant materials to ensure consistent performance in harsh outdoor environments and minimal maintenance over a long service life.
- **Easy Integration:** Available with manual or motorized operating mechanisms and adaptable mounting configurations to suit a range of substation layouts and system requirements.
- **Certified Quality:** Disconnects are designed, manufactured, tested and delivered our in accordance with all applicable local and global standards (ANSI, IEEE) maintaining quality assurance.

Lead Time:

Approximately **3-12 months** after drawings approved.

**Photos shown for visual reference only—actual product specifications may vary based on manufacturing and order requirements.*

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40.5kV ~ 252kV DISCONNECT

Specification			Unit	Technical Parameters			
Rated Voltage			kV	40.5	126	145	252
Rated Current			A	2000	2000	2000	3150
Rated Short Time Withstand Current, 3s			kA	40	40	40	50
Rated Peak Withstand Current			kA	80	100	100	125
Rated Power Frequency Withstand Voltage (rms)		**To Earth**	kV	95	230	275	460
		Open Contacts		110	230+70	315	460+145
Rated Lightning Impulse Withstand Voltage (peak)		**To Earth**	kV	185	550	650	1050
		Open Contacts		215	550+100	750	1050+200
Rated Tension of Connecting Terminal		**Longitudinal**	N	750	1000	1000	1500
		Horizontal		400	750	750	1000
		Vertical		500	1000	1000	1250
Min Failing Load			N	4000	6000	6000	8000
ES Induction Current Switching Capability	**Electromagnetic Coupling**	**Rated Induction Current**	A	–	50	80	80
		Rated Induction Voltage	kV	–	0.5	2	1.4
	Electrostatic Coupling	**Rated Induction Current**	A	–	0.4	2	1.25
		Rated Induction Voltage	kV	–	3	6	5
Open/Close Bus Switching Circuit			A	–	1600	1600	1600
Mechanical Life			Time	3000	3000	3000	3000
Single Pole Weight			kg	80	240	300	650

Working Conditions:

- Max. ambient temperature: +40ºC
- Min. temperature: -40ºC
- Pollution Level: III (25mm/kV), IV (31mm/kV)
- No corrosive gas, no obvious dirt, etc.
- Altitude: ≤2000m
- Max. Wind Velocity: 34m/s
- Thickness of Ice: ≤10mm
- Customized engineering available on request

GRID INFRASTRUCTURE SOLUTIONS
5 Park Plaza, Suite 640
Irvine, CA 92614

Email: sales@grid-infrastructure.com
Phone: +1 (949) 570-8998
Website: grid-infrastructure.com