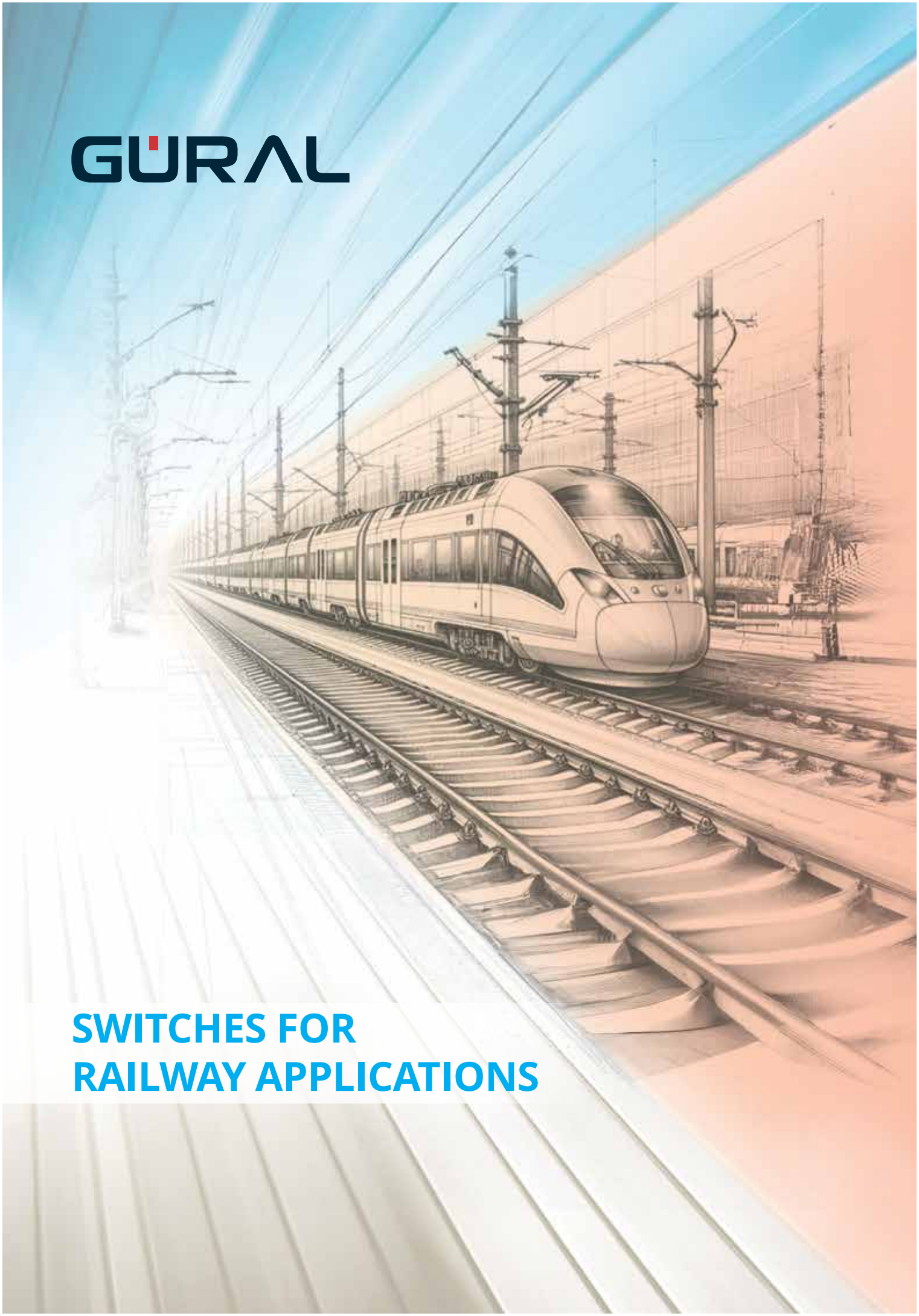
GÜRAL



SWITCHES FOR RAILWAY APPLICATIONS

Reliability *in Switching*

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GÜRAL

Headquartered in Istanbul, Güral Elektrik is a leading name in the electromechanical industry. The company was founded by the late Şehsuvar Menemencioğlu and the late Oğuz Güral, one of Türkiye's pioneering electrical network contractors. In 1991, it was restructured under its current name: Güral Elektrik Malzemeleri Ticaret ve Sanayi A.Ş.

Today, Güral Elektrik A.Ş. specializes in the production, marketing, and sales of medium, high, and very high-voltage disconnectors, high-voltage current-limiting back-up fuses, and live line working equipment. Backed by a strong internal engineering and R&D team, the company drives innovation while maintaining strategic technological partnerships with globally recognized firms.

In 1999, Güral marked a major milestone with the launch of high-voltage disconnector production, capable of operating at 420 kV and 50 kA. Since 2008, the company has embraced independent research and development, creating next-generation disconnectors engineered to meet even more demanding technical requirements, supporting voltages up to 550 kV and currents up to 63 kA.

In addition to its strong domestic market presence, Güral Elektrik exports its products to regions including the Middle East, Far East, Western Europe, and North Africa, reinforcing its position as a trusted global supplier of high-voltage switching solutions.

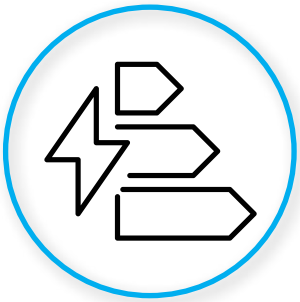
M. BAHADIR GÜRAL

General Manager

GÜRAL ELEKTRİK HIGHLIGHTS

Know-how & Engineering Expertise

100+ Employees

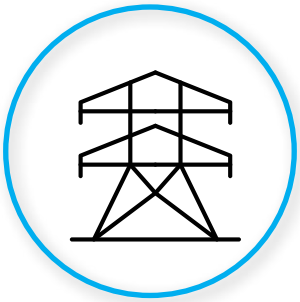


Up to 550 kV/4000 A /63 kA

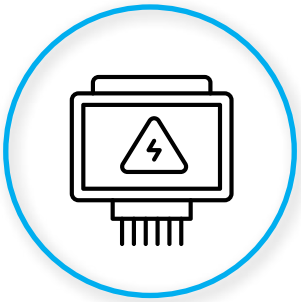
High R&D Investment Budget

17+ Countries

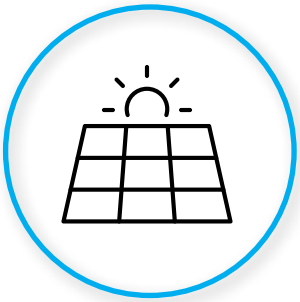
30+ Years of Experience



25000+ High Voltage Disconnectors



9000+ Medium Voltage Disconnectors



Low CO_2 Green Energy


GÜRAL

MILESTONES

1950
Oğuz Güral established Oğuz Güral PVT.

1990
Güral Elektrik A.Ş. was founded.

1991
Production of self-designed medium voltage products began (disconnectors, load break switches, earthing switches).

2004
Medium voltage cabinet-type load break switches were introduced.

2008
550 kV 63 kA disconnectors, designed and developed by Güral Elektrik, were manufactured.

2011
The first export from Türkiye to Japan of a medium/high voltage technological product was made (100 kV-350 kApeak disconnector).

2017
Entered the railway market with outdoor load break switches featuring vacuum interrupters, designed in-house.

2018
Received the 63 kA (r.m.s.) short-time withstand current certificate from KEMA for disconnectors and earthing switches ranging from 245 kV to 550 kV.

2020
New buildings were constructed within the factory complex. Received 50 kA (r.m.s.) short-time withstand current certification for disconnectors and earthing switches up to 170 kV.

1998

High voltage fuses, designed in-house, were certified.

2000

The first high voltage disconnectors and earthing switches were manufactured.

2002

Production of 550 kV 50 kA disconnectors and earthing switches was carried out.

2012

A three-year framework supply was provided for Central Asian projects until 2015.

2015

Entered the 27.5 kV railway market with proprietary designs.

2016

Entered the metro and tram market with in-house designs.

2022

Produced vertical break disconnectors for mobile substations and tramway disconnectors with ratings of 4000A and above.

2023

A production record was achieved in 420 kV and 550 kV disconnector and earthing switch manufacturing.

2024

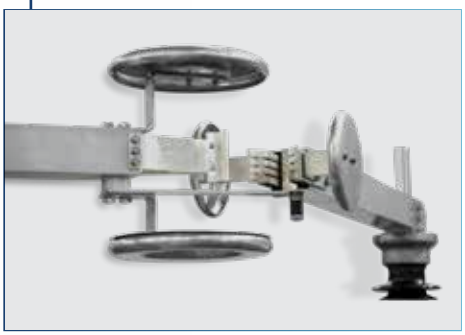
And we keep evolving with confidence.

CENTRE-BREAK DISCONNECTORS

(Up to 550kV, 4000A, 63kA-3s)

GÜRAL

CENTRE-BREAK DISCONNECTORS
(Up to 550kV, 4000A, 63kA-3s)



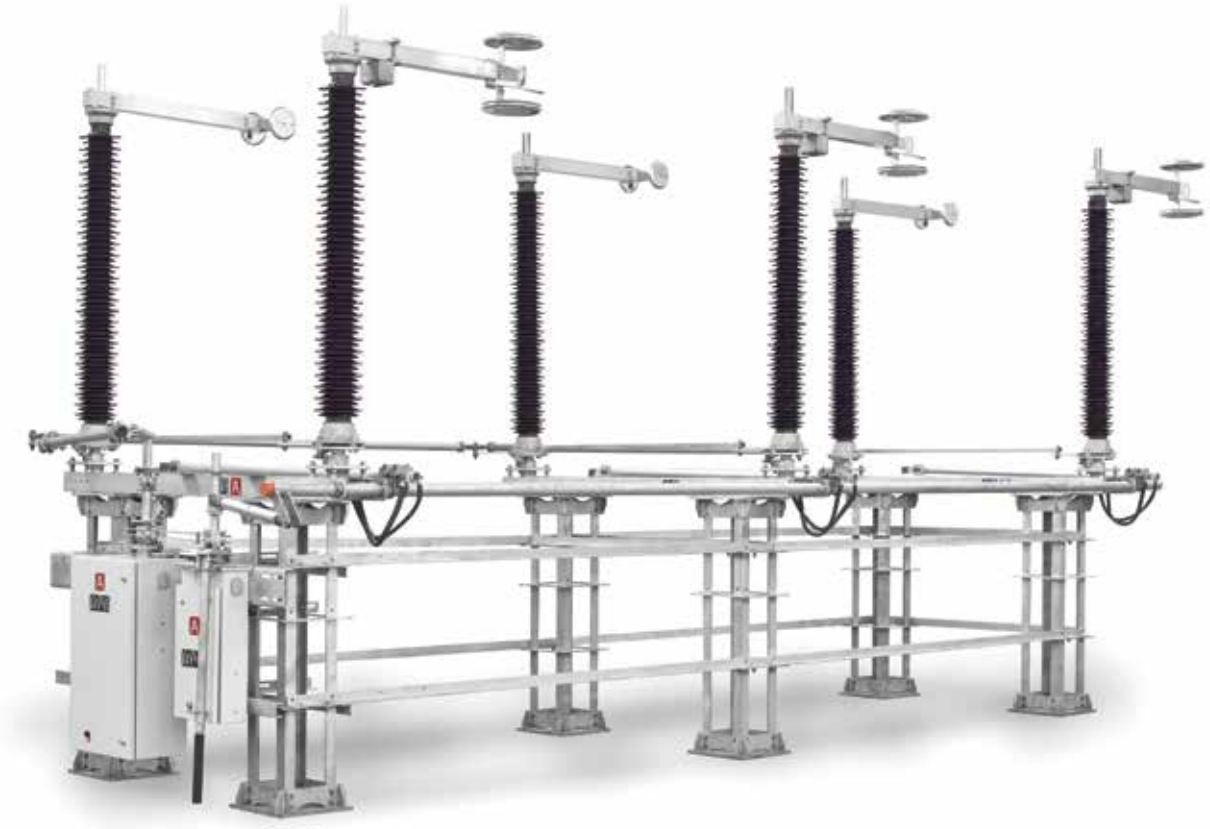
GÜRAL Centre-Break Disconnectors (CBD) can be fitted parallel, inline, or even shifted crosswise layouts.

- Type tested at independent laboratories in accordance with the IEC standards
- 10.000 CO (main circuit), 5.000 CO (add-on earthing switch)
- Ambient temperature range: -50 °C, +55 °C Ice loading class: 20 mm
- Seismic withstand level: 1.0 g in compliance with IEEE 693, 2018.

Each pole consists of two rotating columns, silver-plated copper contacts and terminals capable of being arranged in cylindrical or plate shape (with different hole patterns).

Ready to be equipped with one (CBDE) or two (CBDEE) earthing switches.

Motor and hand drive mechanisms are applicable with flexible control and supply circuit designs to satisfy the customer requirements.



RATINGS

Rated Voltage	kV	72,5	123(126)	145	170	245(252)	300	362(363)	420	550
Rated Current	A	1250-4000					2000-4000			
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	kV (r.m.s.)	140(1)(2) 160(3)	230(1)(2) 265(3)	275(1)(2) 315(3)	325(1)(2) 375((3)	460(1)(2) 530(3)	395(1)(2) 435(3)	450(1)(2) 520(3)	520(1)(2) 610(3)	620(1)(2) 800(3)
Rated Switching Impulse Withstand Voltage (250/2500 µs)	kVpeak	N.A.					850(1) 1275(2) 700(+245)(3)	950(1) 1425(2) 800(+295)(3)	1050(1) 1575(2) 900(+345)(3)	1175(1) 1760 (2) 900(+450) (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	325(1)(2) 375(3)	550(1)(2) 630(3)	650(1)(2) 750(3)	750(1)(2) 860(3)	1050(1)(2) 1200(3)	1050(1)(2) 1050(+170) (3)	1175(1)(2) 1175(+205) (3)	1425(1)(2) 1425(+240) (3)	1550(1)(2) 1550(+315) (3)
Rated Short-Time Withstand Current-Duration	kA (r.m.s.)	31,5-3s / 40-3s / 50-3s / 63-3s					50-3s / 63-3s			
Rated Peak Withstand Current	kVpeak	80 / 100 / 125 / 157,5					125 / 157,5			

(1): Phase-to-earth
(2): Between phases
(3): Across the isolating distance

CENTRE-BREAK DISCONNECTORS
(Up to 550kV, 4000A, 63kA-3s)

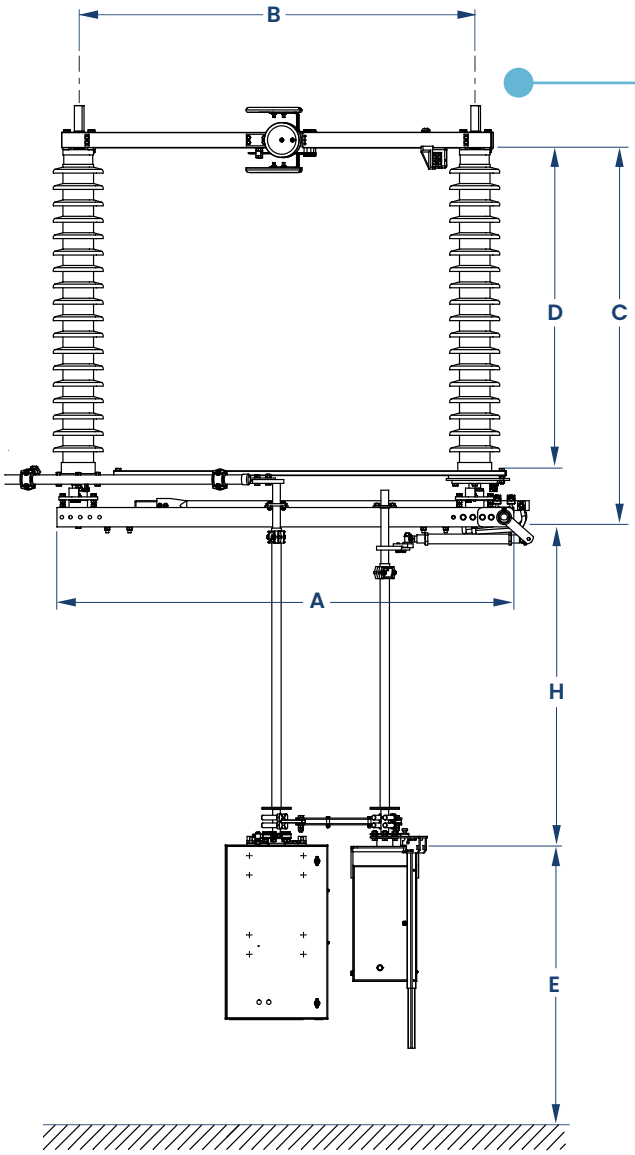


TABLE A

CENTRE-BREAK DISCONNECTORS

Dimension	kV	72.5	123	145	170	245(252)	300	362	420	550
A	mm	1170	1770	2000	2270	3000	3570	4470	5350	5350
B	mm	950	1550	1800	2050	2700	3100	4000	4650	4650
C	mm	1020	1460	1735	1950	2560	3033	3283	4321	4722
D	mm	770	1220	1500	1700	2300	2650	2900	4000	4400
E	mm	1300-1400								

Dimension H is adjusted solely based on the customer's request.
Dimension F is arranged to the customer request and the technical requirement of the minimum clearance.
Motor and manual drive mechanisms are capable to be assembled on different 3-phase steel structures.
Corona shields are supplied for the maximum system voltage levels starting with 170 kVpeak

A (Base frame length) **B** (Support insulator distance) **D** (Height of support insulator)
F min (Minimum distance between poles)

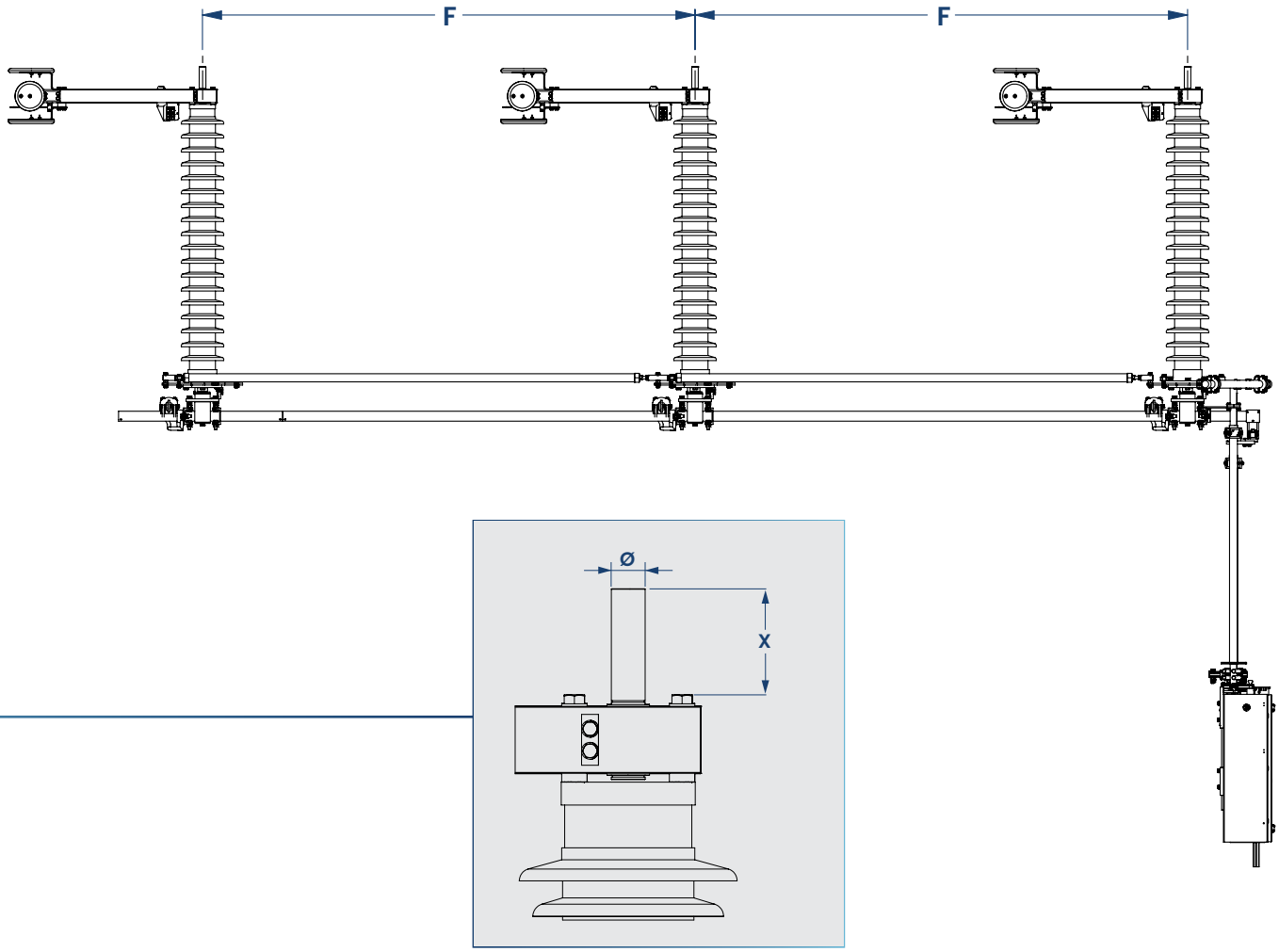


TABLE B

Dimension	kV	72.5 - 245 (252)						300 - 550			
	A	1250	1600	2000	2500	3150	4000	2000	2500	3150	4000
Ø	mm	40	40	50	50	50	60	50	50	50	60
X(min)	mm	95									

The connection terminal can be provided as a plate terminal upon request.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SWITCH-DISCONNECTORS WITH VACUUM INTERRUPTER

(HVYA)

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SWITCH-DISCONNECTORS WITH VACUUM INTERRUPTER (HVYA)

GÜRAL General Purpose Switch Disconnector with Vacuum Interrupter (HVYA) meets the highest switching requirements designated by IEC 62271-103 with the operational classes of E3, M2, andC2.

The Vacuum Interrupter is operated independently from the operating mechanism by the spring operation mechanism located in the switching chamber together with the interrupter. The switching chamber is made of aluminum housing, hollow insulator, stainless-steel operating parts manufactured by high-precision machining.

The main circuit is made of silver-plated copper current path and terminals. Terminal plate hole patterns are supplied in compliance with the customer system's needs.

Motor and hand drive mechanisms are applicable with flexible control and supply circuit designs to satisfy the customer requirements

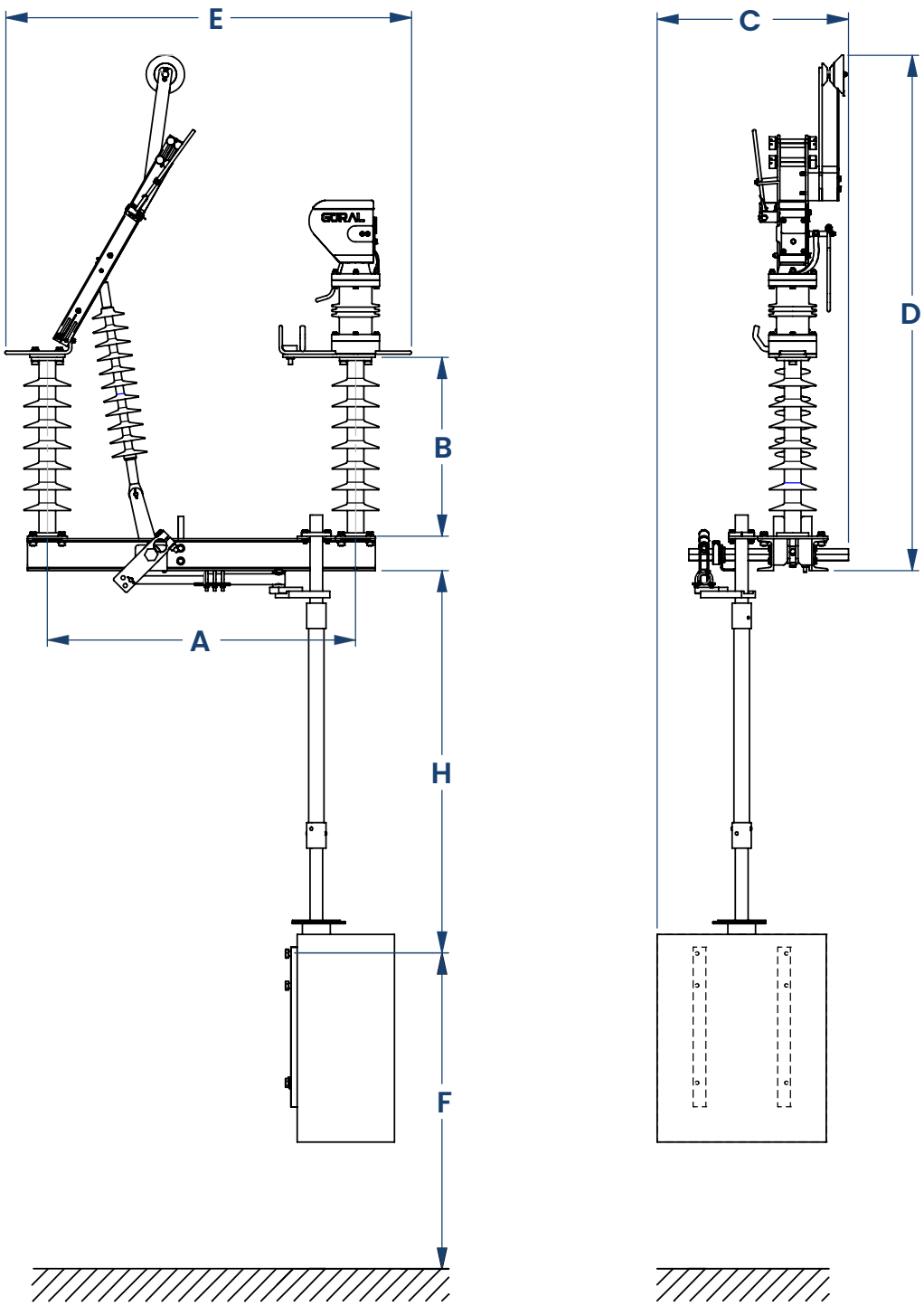
RATINGS

Rated Voltage	**kV**	**27,5**
Rated Current	**A**	**2000**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**95** (1) **110** (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	**250** (1) **290** (3)
Rated Short - Time Withstand Current - Duration	**kA** (r.m.s.)	**31,5 - 3s**
Rated Peak Withstand Current	kVpeak	**82**

(1) : Phase-to-earth
(3): Across the isolating distance

SWITCHING RATINGS

Mainly Active Load	**kV**	**2000**
Closed-loop	**A**	**2000**
Cable-charging	**A**	**25**
Line-charging	**A**	**2.5**
Earth fault	**A**	**30**
Cable- and line-charging, under earth fault conditions	**A**	**17.4**
Rated Short-circuit Making Current	kApeak	**20**
Switching Operation Numbers		
Mainly Active Load	**C-O**	**100**
Short-circuit Making	**C**	**5**
Mechanical Endurance	**C-O**	**10000**



Type	Rated Voltage(kV)	Rated Current (A)	Dimensions(mm)					
			A	B	C	D	E	F
HVYA	27,5	2000	966	560	600	1615	1271	1300-1400

Dimension H is adjusted solely based on the customer's request.

MEDIUM VOLTAGE DISCONNECTORS

(HA/HT/HS/HSA/CBD)

GÜRAL

MEDIUM VOLTAGE DISCONNECTORS (HA/HT)

RATINGS

Rated Voltage	**kV**	**27,5**
Rated Current	**A**	**1250-2000**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**95** (1) **110** (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	**250** (1) **290** (3)
Rated Short - Time Withstand Current - Duration	**kA** (r.m.s.)	**25-3s** **31,5-3s** **40-3s**
Rated Peak Withstand Current	kVpeak	**63** **80** **100**

(1): Phase-to-earth
(3): Across the isolating distance

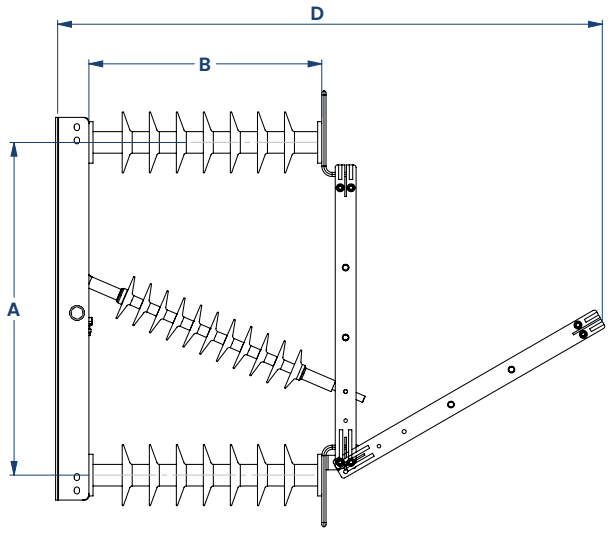
GÜRAL Products for Railway Applications consist of modules that are rooted in GÜRAL Medium Voltage Disconnectors and Earthing Switches designed, produced, and optimized based on the experiences of many years in service under various system and climate conditions.

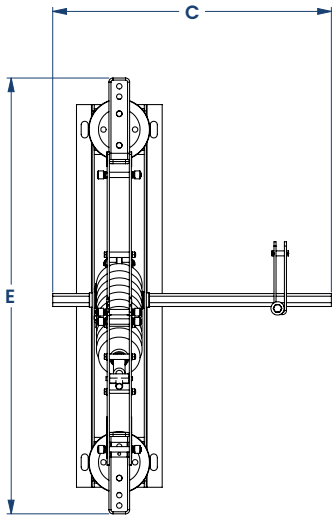
- Vertical-break or centre-break based solutions
- Type tested at independent laboratories in accordance with the IEC and EN standards
- 10.000 CO (main circuit), 10.000 CO (add-on or standalone earthing switch)
- Ambient temperature range: -50 °C, +55 °C
- Ice loading class: 20 mm
- Seismic withstand level: 1.0 g in compliance with IEEE 693, 2018.

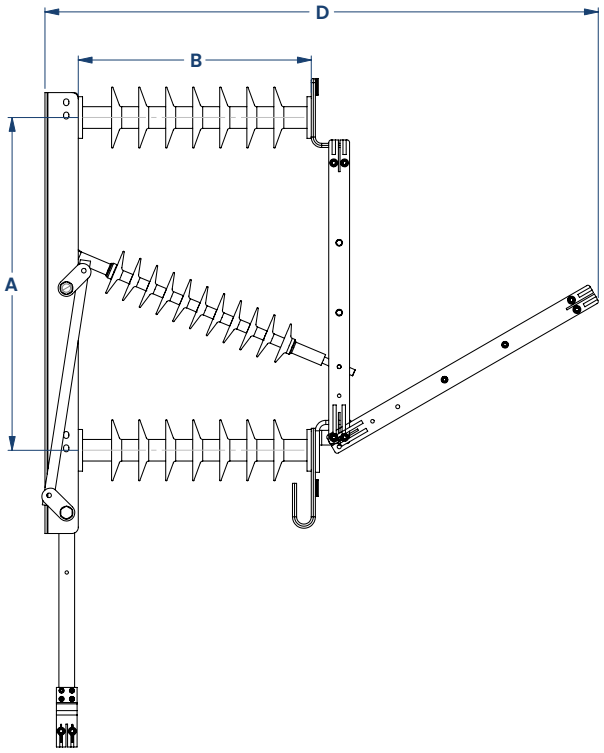
Base frames, main circuits, earthing switches are made of same quality materials and workmanship as the high voltage and medium voltage products of GÜRAL.

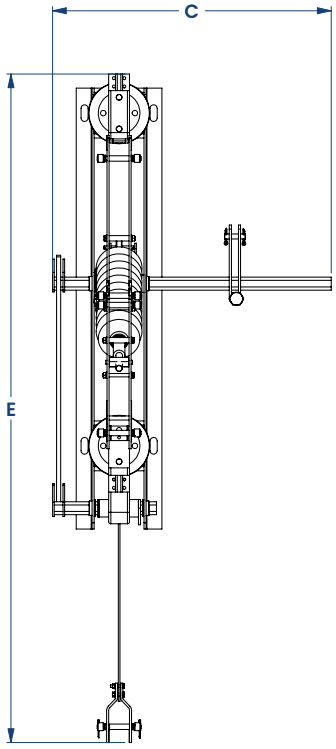
27,5 kV generic products are dimensioned based on the voltage withstand levels designated for 52 kV rated voltage level by IEC 62271-1, and they are ready to be rearranged for lower-rated voltages of different railway systems.

In general applications, silicone-coated composite insulators are employed. In case of customer request, porcelain insulators are available.





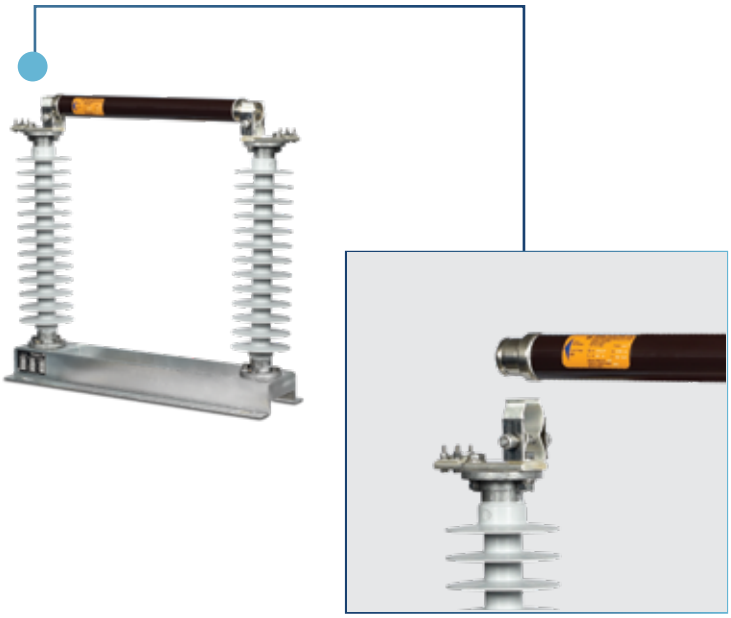




HA-HT

Type	Rated Voltage(kV)	Rated Current (A)	Dimensions (mm)				
			A	B	C	D	E
HA	27,5	1250	800	560	670	1330	1050
		2000	800	560	670	1330	1100
HT	27,5	1250	800	560	670	1330	1610
		2000	800	560	670	1330	1640

MEDIUM VOLTAGE DISCONNECTORS
(HS/HSA)



RATINGS

Rated Voltage	**kV**	**27,5**
Rated Current	**A**	**1250-2000**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**95** (1) **110** (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	**250** (1) **290** (3)
Rated Short - Time Withstand Current - Duration	**kA** (r.m.s.)	**25-3s** **31,5-3s** **40-3s**
Rated Peak Withstand Current	kVpeak	**63** **80** **100**

(1): Phase-to-earth
(3): Across the isolating distance

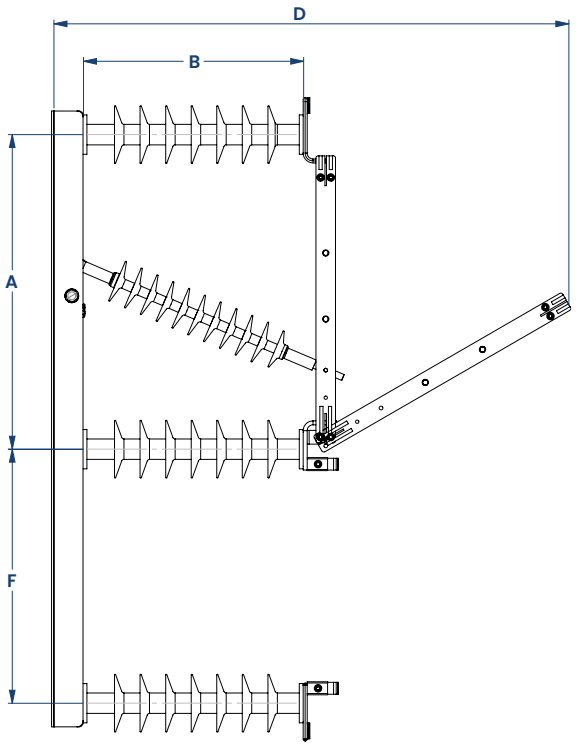
GÜRAL Products for Railway Applications consist of modules that are rooted in GÜRAL Medium Voltage Disconnectors with fuse bases designed, produced, and optimized based on the experiences of many years in service under various system and climate conditions.

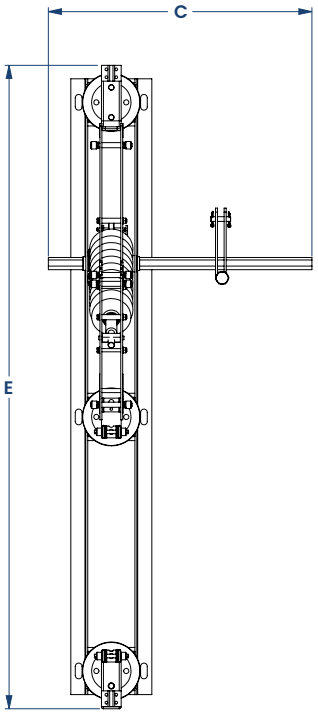
- Vertical-break or centre-break based solutions
- Type tested at independent laboratories in accordance with the IEC and EN standards
- 10.000 CO (main circuit)
- Ambient temperature range: -50 °C, +55 °C
- Ice loading class: 20 mm
- Seismic withstand level: 1.0 g in compliance with IEEE 693, 2018.

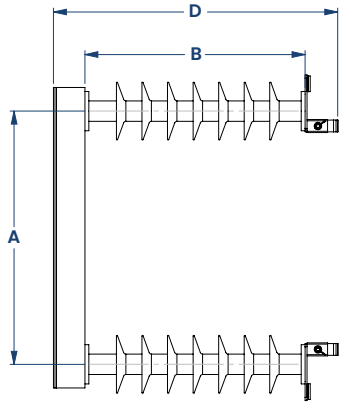
Base frames, main circuits and fuse bases are made of same quality materials and workmanship as the high voltage and medium voltage products of GÜRAL.

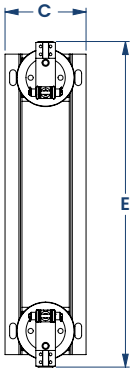
27,5 kVpeak generic products are dimensioned based on the voltage withstand levels designated for 52 kVpeak rated voltage level by IEC 62271-1, and they are ready to be rearranged for lower-rated voltages of different railway systems.

In general applications, silicone-coated composite insulators are employed. In case of customer request, porcelain insulators are available





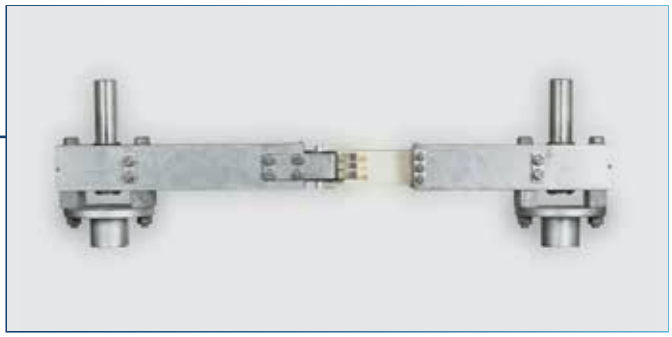




HS-HSA

Type	Rated Voltage(kV)	Rated Current (A)	Dimensions(mm)					
			A	B	C	D	E	F
HS	27,5	630	800	560	670	1330	1640	646
		1250	800	560	670	1330	1640	646
HSA	27,5	630	646	560	206	723	828	-
		1250	646	560	206	723	828	-

MEDIUM VOLTAGE DISCONNECTORS (CBD)



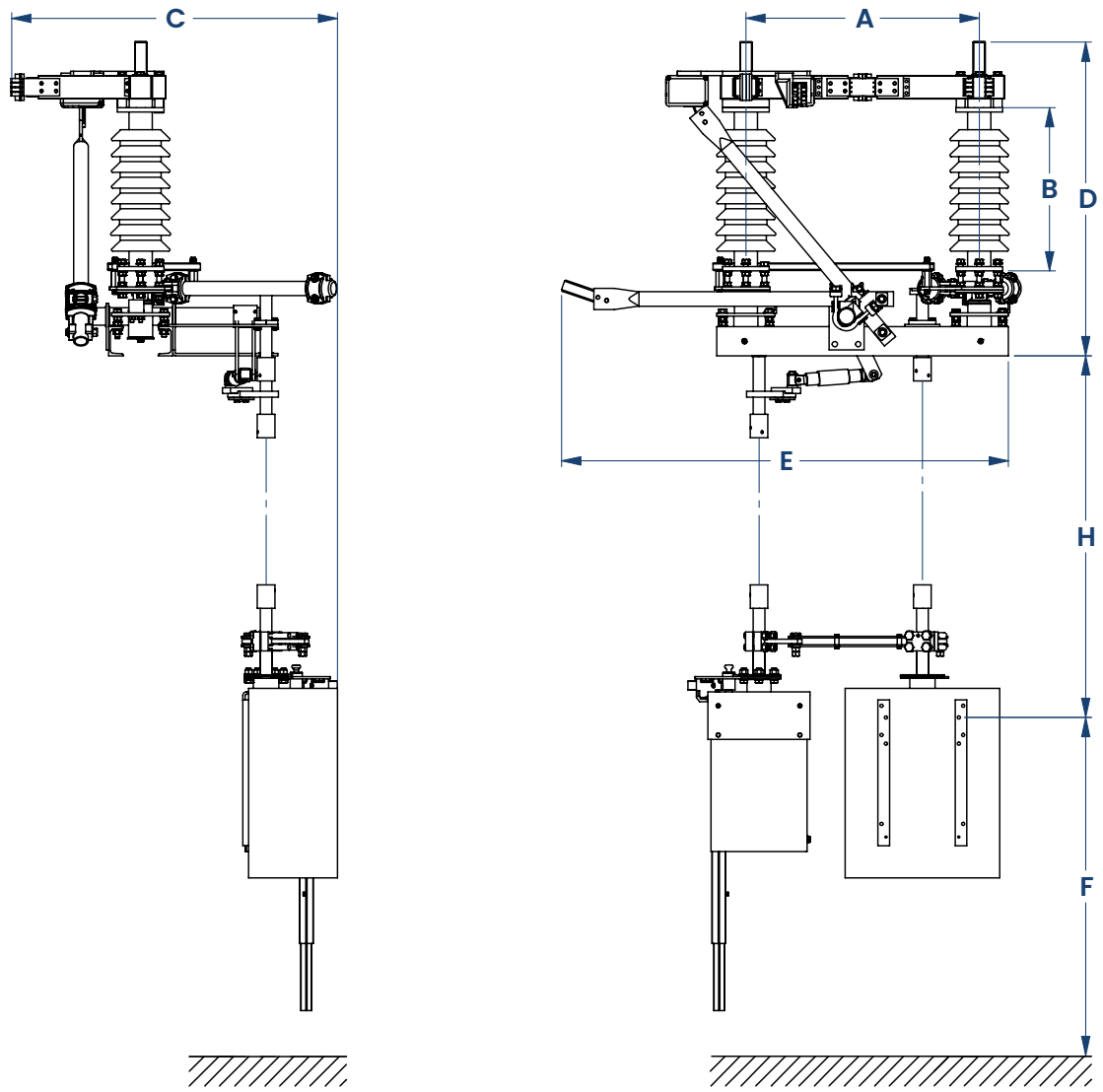
GÜRAL Centre-Break Disconnectors (CBD) for railway applications are adapted from GÜRAL high voltage disconnectors, consisting of the same superior properties and ready to be applied for any railway voltage rating.

- Type tested at independent laboratories in accordance with the IEC standards
- 10.000 CO (main circuit), 5.000 CO (add-on earthing switch)
- Ambient temperature range: -50 °C, +55 °C
- Ice loading class: 20 mm

RATINGS

Rated Voltage	**kV**	**27,5**
Rated Current	**A**	**1250-3150**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**95** (1) **110** (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	**250** (1) **290** (3)
Rated Short - Time Withstand Current - Duration	**kA** (r.m.s.)	**31,5-3s** **40-3s** **50-3s**
Rated Peak Withstand Current	kVpeak	**80** **100** **125**

(1): Phase-to-earth
(3): Across the isolating distance



CBD

Type	Rated Voltage (kV)	Rated Current(A)	Dimensions(mm)					
			A	B	C	D	E	F
CBDe	27,5	1250	800	560	1130	1055	1000	1300-1400
		2000	800	560	1130	1089	1000	
CBDEe	27,5	1250	800	560	1130	1076	1530	
		2000	800	560	1130	1010	1530	
CBDEEe	27,5	1250	800	560	1130	1076	1983	
		2000	800	560	1130	1010	1983	

Dimension H is adjusted solely based on the customer's request.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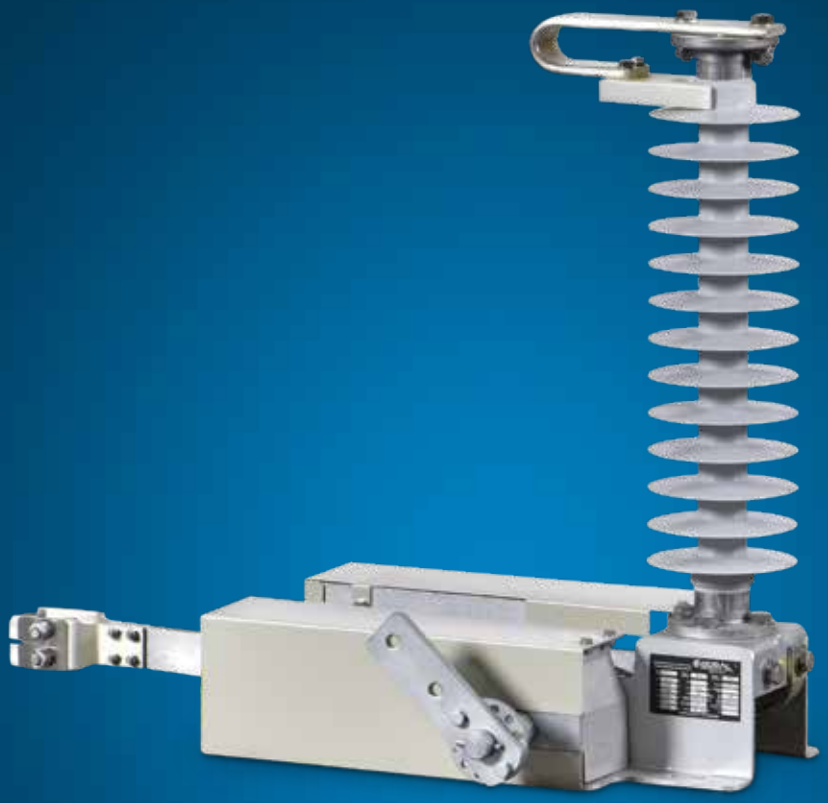


MEDIUM VOLTAGE EARTHING SWITCHES
(HTAY)

GÜRAL

MEDIUM VOLTAGE EARTHING SWITCHES (HTAY)

HTAY provides a reliable and high-durability earthing switch solution for industrial and railway applications, ensuring safe and efficient operation even in extreme conditions.

GÜRAL Earthing Switch (HTAY) complies with IEC 62271-102 and meets the highest electrical endurance class, E2. It has been tested to perform five short-circuit closing operations up to a peak value of 42 kApeak.

The HTAY design is optimized with a dual-speed closing mechanism.

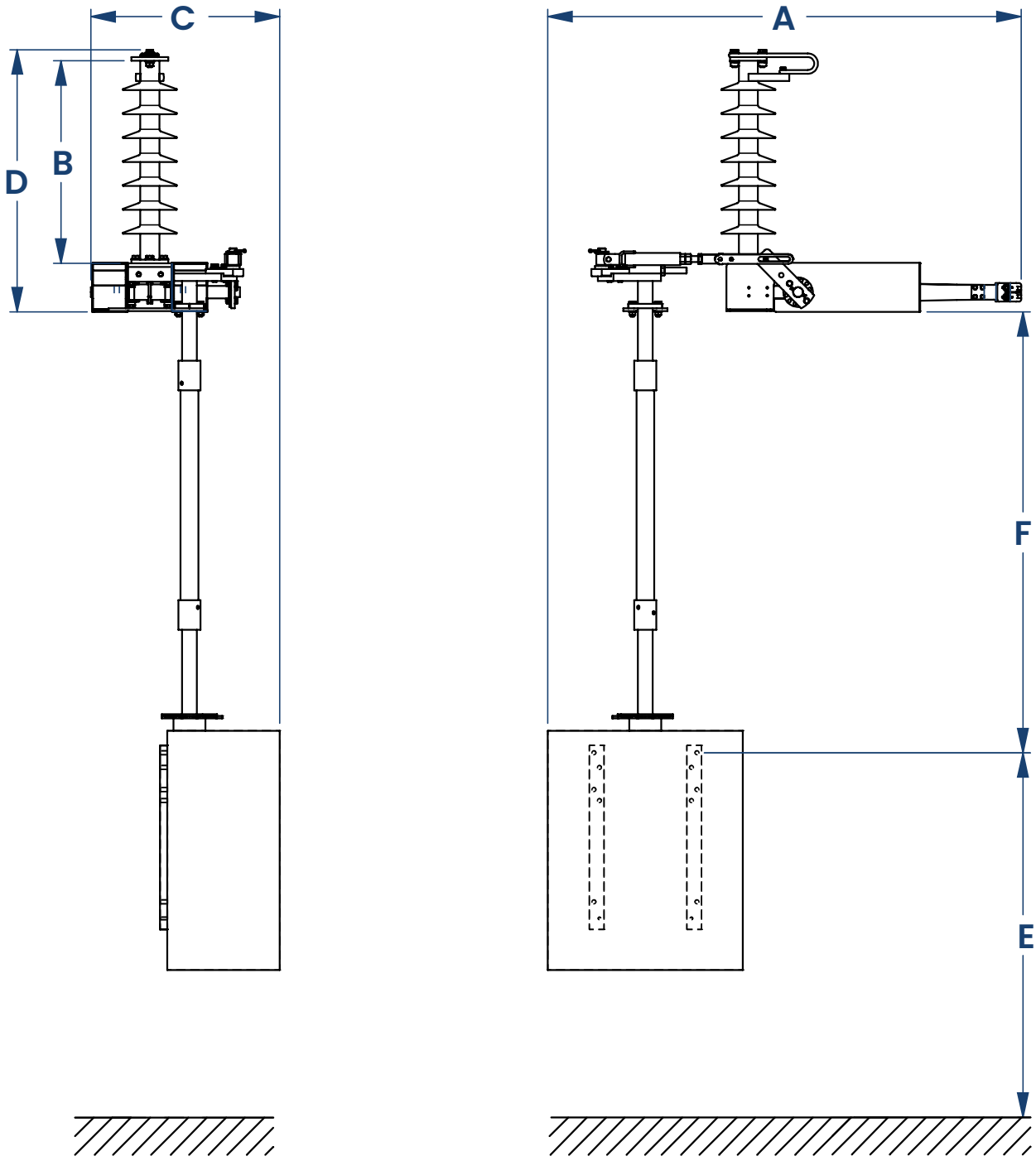
- Type tested at independent laboratories in accordance with the IEC standards
- Electrical endurance class: E2
- Short-circuit making capability: 5 operations up to 42 kApeak
- Mechanical endurance: 1,000 CO cycles
- Insulation & creepage distances: EN 50124-1 compliant
- Operating temperature range: –40°C to +45°C
- Ice loading capacity: 20 mm

HTAY can be operated with MD, HD, MVHD, and simple hand drive mechanisms. It also features an independent closing speed, regardless of the drive mechanism. To maintain electrode potential balance, the terminal area is suitable for tin plating.

RATINGS

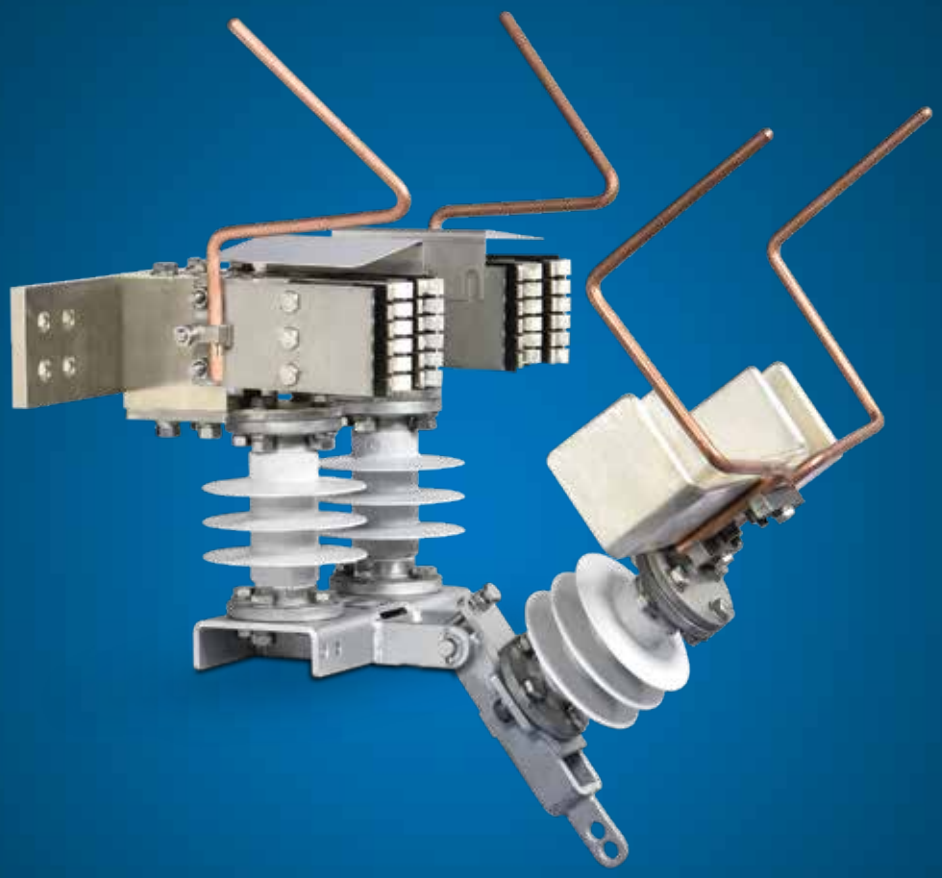
Rated Voltage	**kV**	**27,5**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**95**(1)
Rated Lightning ImpulseWithstand Voltage(1,2/50 µs)	kVpeak	**250**(1)
Rated Short-Time Withstand Current/Duration	**kA** (r.m.s.)	**20 kA-1s**
Peak Withstand Current	kVpeak	**52**
Short-circuit Making Current	kVpeak	**42**
Electrical Class		**E2** (acc. to IEC 62271-102)

(1) : Phase-to-earth



Type	Rated Voltage(kV)	Dimensions(mm)				
		A	B	C	D	E
HTAY	27,5	1286	560	512	710	1300-1400

Dimension H is adjusted solely based on the customer's request.



DC DISCONNECTORS (TKU)

GÜRAL

DC DISCONNECTORS
(TKU)

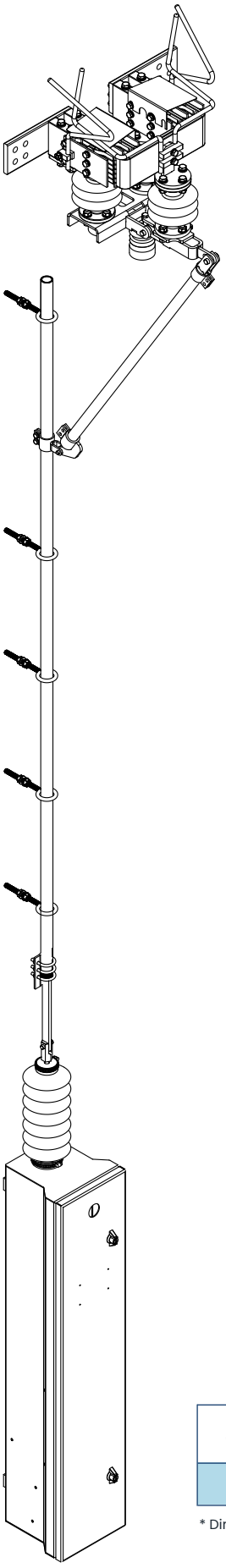
GÜRAL Disconnectors for Tramway Applications are designed for any voltage level applied to tramway systems up to 4000 A.

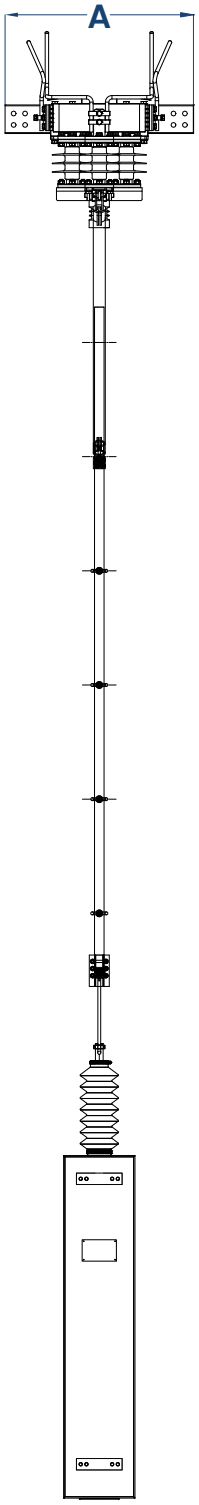
- Type tested at independent laboratories in accordance with the IEC and EN standards
- 10.000 CO (main circuit)
- Ambient temperature range: -50 °C, +55 °C
- Ice loading class: 20 mm

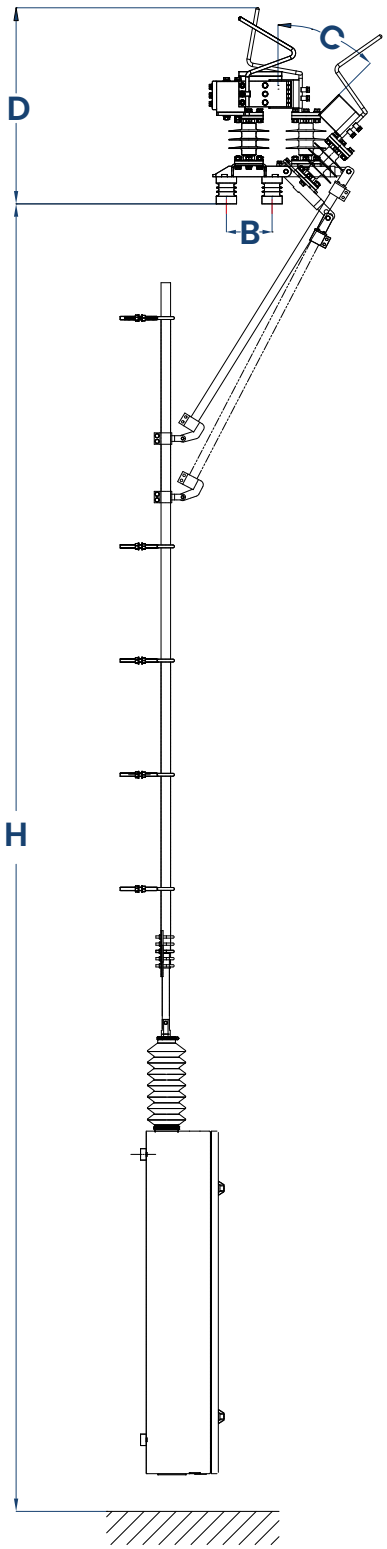
RATINGS

Rated Voltage	**kV**	**3000**
Rated Current	**A**	**2000-4000**
Rated Short-Duration Power-Frequency Withstand Voltage (50 Hz - 1 min.)	**kV** (r.m.s.)	**18,5** (1) **22,2** (3)
Rated Lightning Impulse Withstand Voltage (1,2/50 µs)	kVpeak	**40** (1) **48** (3)
Rated Short - Time Withstand Current - Duration	**kA** (r.m.s.)	**40-1s**
Rated Peak Withstand Current	kVpeak	**100**

(1): Phase-to-earth
(3): Across the isolating distance

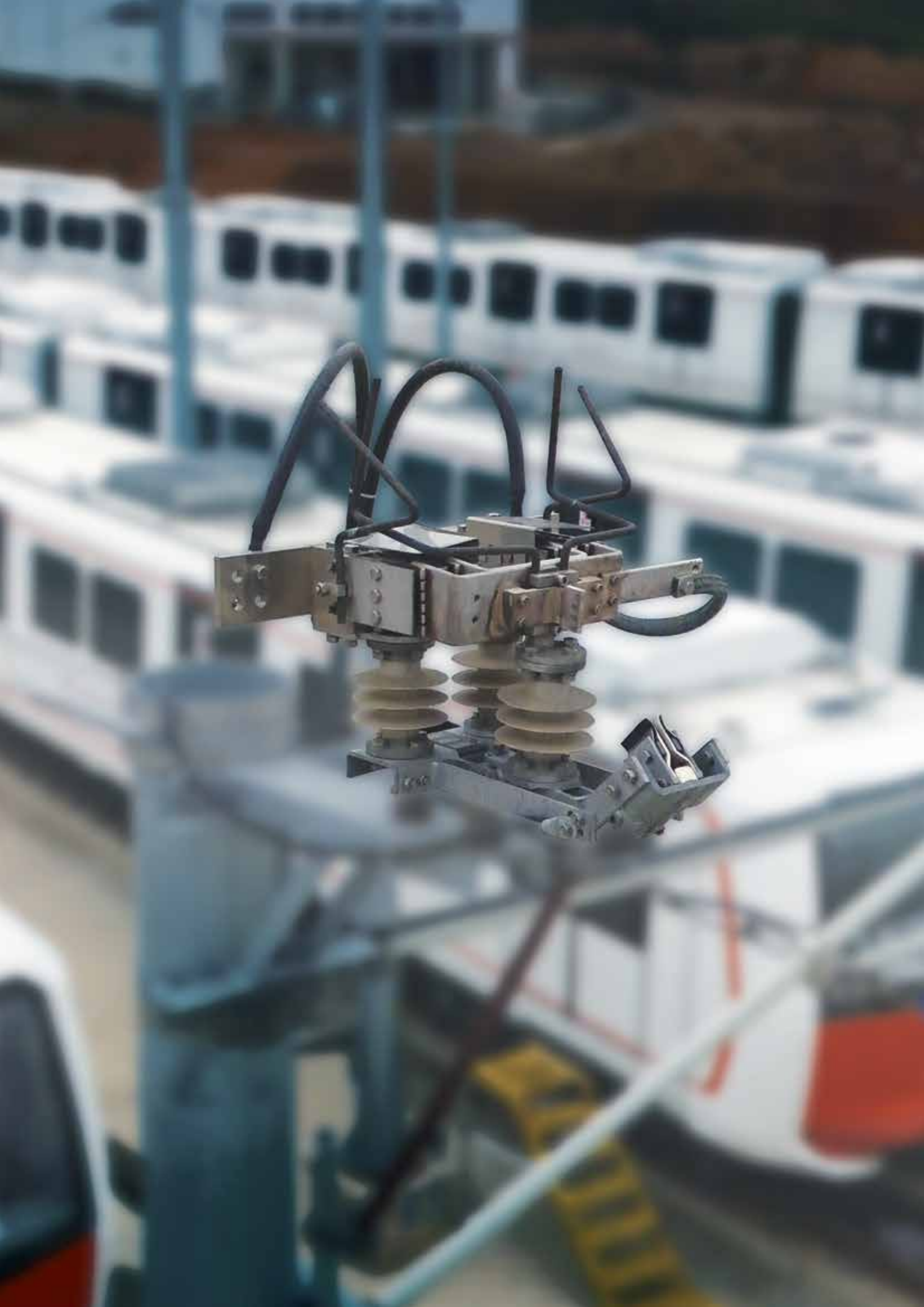






Type	Rated Voltage(V DC)	Rated Current(A DC)	Dimensions(mm)			
			A	B	C	D
TKU	3000	2000-4000	660	160	45°	682

* Dimension H is adjusted solely based on the customer's request.



OPERATING MECHANISMS

(MD/MDHL/HD/MVHD/HK)

GÜRAL

MOTOR DRIVE MECHANISMS
(MD/MDHL)

MD

Ideal for both local and remote control, they offer reliable electric and manual operation options. They are extremely easy to use and are made from corrosion-resistant materials, ensuring long-term durability. Motorized drive mechanisms ensure the safe and efficient operation of disconnectors and earthing switches.

GÜRAL Motor Drive Mechanisms are capable of operating high and medium-voltage switches with various operation angles, system ratings, and climate conditions. These drive mechanisms are type-tested at independent laboratories in accordance with IEC standards.

RATINGS

Rated Motor Voltage	**V**	**AC:110-220-230-380-400-415 DC:48-110-125-220**
Rated Control Voltage	**V** (DC)	**24-48-110-125-220**
Protection Class	**IP** **IK**	**55-65** **10**
Auxiliary Contacts	**NO+NC**	**8NO+8NC** **10NO+10NC** **12NO+12NC** **16NO+16NC** Early-make & Late-break contacts are available
Cabinet Material	**Aluminum/Stainless Steel**	
Ambient Temperature Range	**-50°C, +55°C**	

MDHL

The MDHL Series is specially designed for TKU-type DC disconnectors, offering a slim motorized control panel. This series provides vertical movement transmission and is particularly suitable for mounting on H-type poles. It is built for ease of installation on narrower posts, ensuring high adaptability.

HAND DRIVE MECHANISMS
(HD, MVHD, HK-180)

GÜRAL Hand Drive Mechanisms are capable of operating high and medium-voltage switches of various operation angles, system ratings, and climate conditions.

Hand Drives are designed and produced with a wide range of complexity, from simple operating levers to highly-developed drive mechanisms, including control circuits adaptable based on customer requirements.

RATINGS

Rated Control Voltage	**V** (DC)	**24-48-110-125-220**
Protection Class	**IP** **IK**	**55-65** **10**
Auxiliary Contacts	**NO+NC**	**8NO+8NC** **10NO+10NC** **12NO+12NC** Early-make & Late-break contacts are available
Cabinet Material	**Aluminum/Stainless Steel**	
Ambient Temperature Range	**-50°C, +55°C**	

HD

HD Series Hand Drive Mechanisms are designed for the manual operation of high-voltage disconnectors and those operated by rotary motion. These mechanisms offer a simple and cost-effective solution where remote operation is not required. Custom revisions can be made based on customer requirements, ensuring compatibility with various applications.

MVHD

MVHD Series Hand Drive Units are designed for the manual operation of switches employed for medium voltage or railway applications. These units are capable of vertical motion and can be customized based on customer requirements. MVHD hand drive units are ideal for a variety of applications, offering a simple, robust, and efficient manual solution.

HK-180

Designed for outdoor disconnectors, this series offers safety with a padlock feature and is used for local control of disconnectors. It supports 180-degree movement, suitable for various environments.


GÜRAL

REFERENCE LIST

KAYAŞ-YERKÖY
HIGH SPEED RAILWAY PROJECT

County	Type and Quantity
Türkiye	232 pcs 27,5kV Disconnectors 83 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter

BANDIRMA-BURSA-YENİŞEHİR-OSMANELİ
HIGH SPEED RAILWAY PROJECT

County	Type and Quantity
Türkiye	102 pcs 27,5kV Disconnectors 67 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter 18 sets 170kV Centre-Break Disconnectors

GEBZE DARICA
METRO PROJECT

County	Type and Quantity
Türkiye	17 pcs 1500V Outdoor D.C. Disconnectors

ÇERKEZKÖY- KAPIKULE
HIGH SPEED RAILWAY PROJECT

County	Type and Quantity
Türkiye	61 pcs 27,5kV Disconnectors 113 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter

İZMİR SUBURBAN
RAILWAY PROJECT

County	Type and Quantity
Türkiye	8 pcs 27,5kV Disconnectors 9 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter

GAZİRAY PROJECT

County	Type and Quantity
Türkiye	16 pcs 27,5kV Disconnectors 29 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter 7 sets 170kV Centre-Break Disconnectors

KAYSERİ
TRAMWAY PROJECT

County	Type and Quantity
Türkiye	29 pcs 1500V D.C. Disconnectors

KONYA-KARAMAN
HIGH SPEED RAILWAY PROJECT

County	Type and Quantity
Türkiye	14 pcs 27,5kV Disconnectors 3 pcs 27,5kV Switch-Disconnectors with Vacuum Interrupter 3 sets 170kV Centre-Break Disconnectors

OTHER PROJECTS

ALABASHLI-QIZILCA RAILWAY
AZERBAIJAN - 2025

ALAYUNT AFYON KONYA RAILWAY
TURKIYE - 2025

BAKU-BOYUK KESIK RAILWAY
AZERBAIJAN - 2025

BAKU-BOYUK KESIK RAILWAY
TURKIYE - 2025

ÇERKEZKÖY-KAPIKULE HIGH SPEED RAILWAY
TURKIYE - 2025

ESKİŞEHİR SİNCAN HIGH SPEED RAILWAY
TURKIYE - 2025

IRAN RAILWAY
IRAN - 2025

KAYSERİ TRAMWAY LINE
TURKIYE - 2025

KAZAN SODA RAILWAY
TURKIYE - 2025

KONYARAY COMMUTER RAIL LINE
TURKIYE - 2025

ALAYUNT AFYON KONYA RAILWAY
TURKIYE - 2024

BAKU-BOYUK KESIK RAILWAY
AZERBAIJAN - 2024

BANDIRMA OSMANELİ HIGH SPEED RAILWAY
TURKIYE - 2024

BURSA TRAMVAY LINE
TURKIYE - 2024

ÇERKEZKÖY-KAPIKULE HIGH SPEED RAILWAY
TURKIYE - 2024

GAZİRAY COMMUTER RAIL LINE
TURKIYE - 2024

GEBZE DARICA METRO LINE
TURKIYE - 2024

SÖĞÜTLÜÇEŞME HIGH SPEED RAILWAY
TURKIYE - 2024

GAZİRAY COMMUTER RAIL LINE
TURKIYE - 2023

GEBZE DARICA METRO HATTI
TURKIYE - 2023

SİRKECİ KAZLIÇEŞME COMMUTER RAIL LINE
TURKIYE - 2023

TANZANIA RAILWAY
TURKIYE - 2023

İZMİR COMMUTER RAIL LINE
TURKIYE - 2022

KAYAŞ-YERKÖY HIGH SPEED RAILWAY
TURKIYE - 2022

KAYSERİ TRAMWAY LINE
TURKIYE - 2022

BURSA T2 TRAMWAY LINE
TURKIYE - 2021

ESKİŞEHİR RAILWAY
TURKIYE - 2021

ETHIOPIA ABYSSINIA RAILWAY
ETHIOPIA - 2021

İSTANBUL-ANKARA HIGH SPEED RAILWAY
TURKIYE - 2021

KAYAŞ-YERKÖY HIGH SPEED RAILWAY
TURKIYE - 2021

MALIKÖY RAILWAY
TURKIYE - 2021

AZERBAIJAN RAILWAY
AZERBAIJAN - 2020

DOĞANÇAY RAILWAY
TURKIYE- 2020

GAZİRAY COMMUTER RAIL LINE
TURKIYE- 2020

KAYAŞ-YERKÖY HIGH SPEED RAILWAY
TURKIYE- 2020

KONYA HIGH SPEED RAILWAY
TURKIYE- 2020

ETHIOPIA AWASH RAILWAY
ETHIOPIA - 2019

KAYAŞ-YERKÖY HIGH SPEED RAILWAY
TURKIYE - 2019

TANZANIA RAILWAY
TANZANIA - 2019

ANKARA-KONYA RAILWAY
TURKIYE - 2018

AWASH–WELDIA RAILWAY
ETHIOPIA - 2018

KCEP 2-6 PROJECT
TURKIYE - 2018

TCDD 4TH REGIONAL DIRECTORATE PROJECT
TURKIYE - 2018

TCDD İZMİR RAILWAY SUBSTATION
TURKIYE - 2018

TCDD KONYA-KARAMAN
TURKIYE - 2018

YERKÖY-SİVAS HIGH SPEED RAILWAY
TURKIYE - 2018

AWASH–WELDIA RAILWAY
ETHIOPIA - 2017

KONYA-KARAMAN HIGH SPEED RAILWAY
TURKIYE - 2017

OSMANİYE RAILWAY
TURKIYE - 2017

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2017

İSTANBUL-ANKARA HIGH SPEED RAILWAY
TURKIYE - 2016

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2016

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2015

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2014

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2008

TCDD – VARIOUS ELECTRIFICATION & SUBSTATION PROJECT
TURKIYE - 2007

QUALITY ASSURANCE & CERTIFICATIONS

Our management and production systems are certified to comply with international and national standards.

We implement a Quality Management System in accordance with ISO standards, ensuring traceability, safety, and reliability at every stage of production.

TYPE TESTS & LABORATORY APPROVALS

We conduct type tests for our disconnector switches in globally accredited laboratories.

All tests are performed in accordance with IEC standards to verify the electrical and mechanical performance of our products.

Below are the independent laboratories where our disconnectors have been successfully tested.

GÜRAL

Reliability in Switching

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