

STAR-SERIES

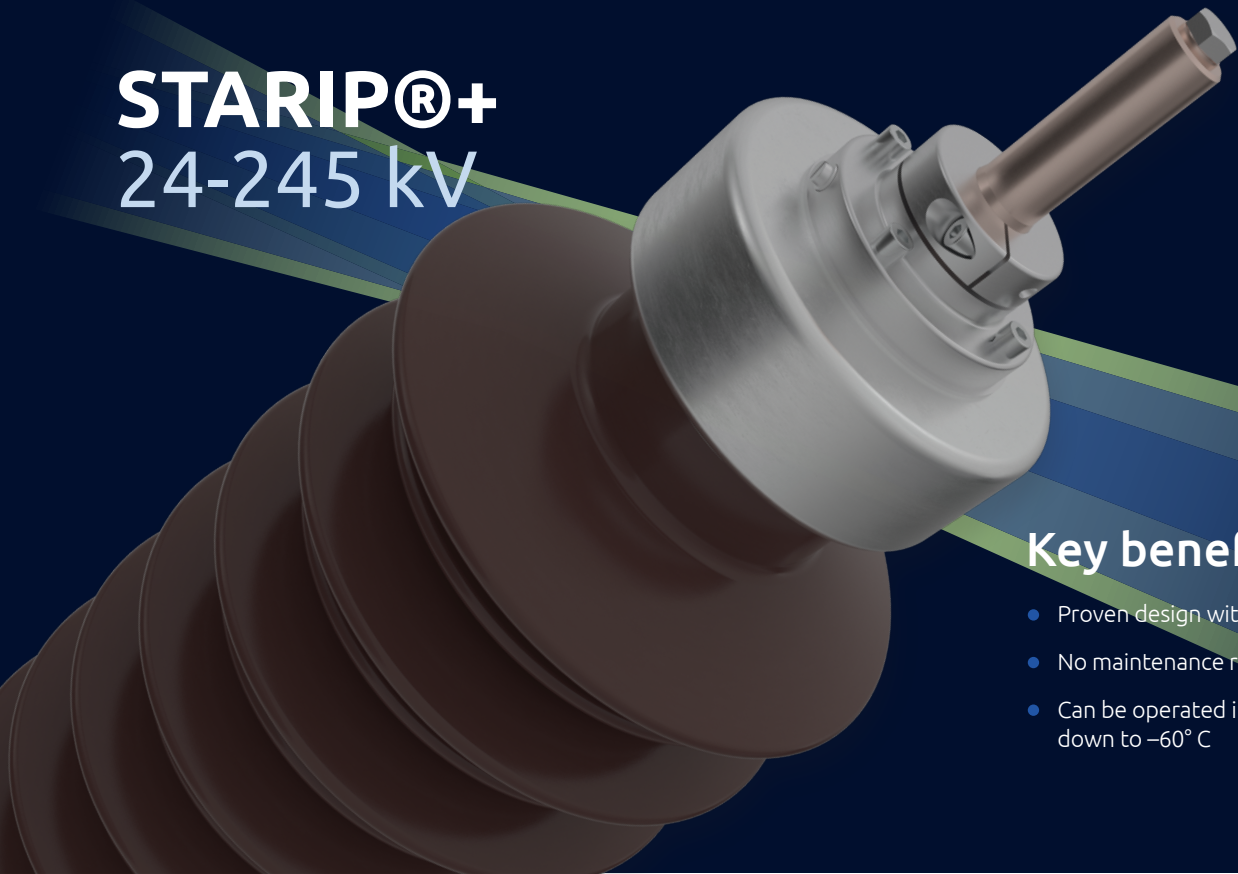
The **easy configurable** High-Standard



Pioneering
high voltage.

STARIP®+

24-245 kV



Key benefits

- Proven design with cast-resin insulation (no oil)
- No maintenance required
- Can be operated in ambient temperatures down to -60°C

STARIP®+	Dimensions	Drawing	Voltage range
Rated highest voltage for Equipment Um, 50/60Hz	kV	-	24 36 52 72,5 123 145 170 245
Partial discharge level at test voltage	pC	-	below background noise level of 2pC
Power-frequency withstand voltage 50Hz, 1.2min, dry	kV	-	55 77 105 155 255 305 355 505
Rated lightning impulse withstand voltage (BIL): 1.2/50 μ s	kV	-	125 170 250 325 550 650 750 1050
Rated switching impulse withstand voltage (SIL): 250/2500 μ s	kV	-	- - - - - - - 850
Maximum service current draw lead bolt: I _{max} /450 mm ²	A	-	800 800 800 800 800 800 800 800
Maximum service current with removable conductor: I _{max}	A	-	1600 1600 1600 1600 1600 1600 1250 1250
Maximum service current with solid conductor: I _{max}	A	-	2500 2500 2000 2000 2000 2000 2000 1600
Flashover distance	mm	SW	380 380 661 661 1138 1301 1451 2770
Creepage distance: minimum	mm	-	1120 1120 2250 2250 3900 4500 5270 9300
Creepage distance: referred to Um	mm/kV	-	46.7 31.1 43.3 31.0 31.7 31.0 31.0 38.0

Dimensions for oil-sided end

Length at CT=0	mm	L1	175 195 230 270 350 400 440 620
Length at CT=300 mm	mm	L1	475 495 530 570 650 700 740 920
Length at CT=500 mm	mm	L1	675 695 730 770 850 900 940 1120

Connecting dimensions for draw lead bolt and removable conductor

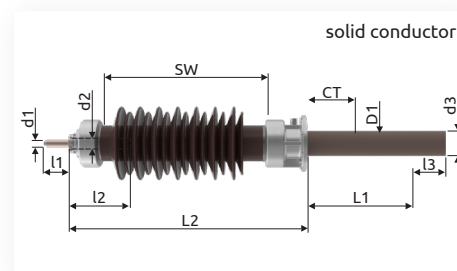
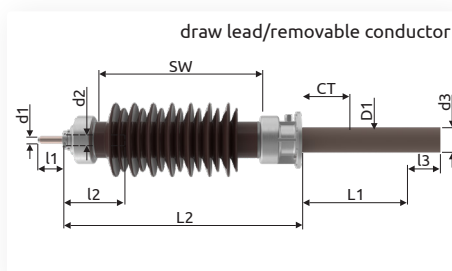
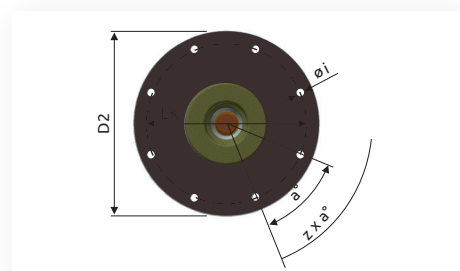
Length of porcelain or composite insulator	mm	L2	667 667 948 948 1425 1588 1738 3117
Top terminal draw lead bolt	mm	d1xL1	Ø 30 x 90
Top terminal removable conductor bolt	mm	d1xL1	Ø 30 x 125
Bottom terminal draw lead bolt	mm	d2xL2	Ø 38 x 150
Bottom terminal removable conductor	mm	d3xL3	Ø 35 x 90

Connecting dimensions for solid conductor

Length of porcelain or composite insulator	mm	L3	640 640 921 921 1398 1561 1711 3085
Top terminal	mm	d4xL4	Ø 45 x 125
Bottom terminal	mm	d5xL5	Ø 45 x 125

Outside diameter of core	mm	D1	100 100 100 100 130 130 143 182/130
Outside diameter of flange	mm	D2	225 225 225 225 290 290 335 335
Diameter of bolt circle	mm	LK	185 185 185 185 250 250 290 290
Number of holes	-	z	8 8 8 8 8 8 12 12
Angle	°	a	45 45 45 45 45 45 30 30
Hole diameter	mm	i	15 15 15 15 15 15 16 20

Dimension Drawing



The dimensions are based on the silicone series; the bushing is also available in a porcelain version.

RIP Dry-Type Transformer Bushings - with Porcelain or Silicone Insulator acc. to IEC 60137

We have fundamentally revised our proven STARIP transformer bushings and now offer them either with porcelain insulator (STARIP®+) or with composite silicone insulator (STARIP®-Si+). The bushings are designed for rated voltages of 24 to 245 kV and rated currents up to 2,500 A and can be optimally adapted to individual operating conditions.

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