

STAR-SERIES

The *easy configurable* High-Standard



Pioneering
high voltage.

STARIS-Sia+

25-230 kV



Key benefits

- Up to 40 years life expectancy
- Environmentally friendly
- HTV on reinforced fiber glass insulators

Staris-Sia+	Dimensions	Drawing	Voltage range
Rated highest voltage for Equipment Um, 50/60Hz	kV	-	25 34,5 46 69 115 138 161 230
Partial discharge level at test voltage	-	-	below background noise level of 2pC
Power-frequency withstand voltage (50 Hz, 1.2 min, dry / 60 Hz, 1.0 min, dry)	kV	-	60 80 105 160 260 310 365 425
Rated lightning impulse withstand voltage (BIL): 1.2/50 μ s	kV	-	150 200 250 350 550 650 750 900
Maximum service current draw lead bolt: I _{max} /600 mm ²	A	-	800 800 800 800 800 800 800 800
Maximum service current with removable conductor: I _{max}	A	-	1200 1200 1200 1200 1200 1200 1600 1600
Maximum service current with solid conductor: I _{max}	A	-	3000 3000 3000 3000 2000 2000 2000 2000
Flashover distance	mm (ln)	SD	380 (15.00) 380 (15.00) 480 (18.90) 661 (26.00) 1138 (44.80) 1301 (51.20) 1451 (57.10) 1860 (73.20)
Creepage distance: minimum	mm (ln)	-	1120 (44.10) 1120 (44.10) 1480 (58.30) 2250 (88.60) 3900 (153.50) 4500 (177.20) 5100 (200.80) 6440 (253.50)
Contamination level per C57.19.100	-	-	extra heavy heavy

Oil-side end acc. to IEEE C57.19.01

Length for 800/1200A	mm (ln)	L1	749 (29.50) 800 (31.50) 851 (33.50) 952 (37.50) 1092 (43.00) 1188 (46.75) 1276 (50.25) 1276 (50.25)
Length for 2000A	mm (ln)	L1	800 (31.50) 851 (33.50) 902 (35.50) 1003 (39.50) 1092 (43.00) 1188 (46.75) 1276 (50.25) 1276 (50.25)
Length for 3000A	mm (ln)	L1	800 (31.50) 851 (33.50) 902 (35.50) 1003 (39.50) - - - -
CT Space	mm (ln)	CT	534 (21.00) 534 (21.00) 534 (21.00) 534 (21.00) 584 (21.00) 584 (21.00) 584 (21.00) 584 (21.00)

Connecting dimensions for draw lead bolt and removable conductor

Air-side length	mm (ln)	L2	667 (26.30) 667 (26.30) 767 (30.20) 948 (37.30) 1445 (56.90) 1608 (63.30) 1823 (71.80) 2232 (87.90)						
Top terminal draw lead bolt /removable conductor	mm (ln)	d1x1	1.5"-12 UNF-2A x 54 (2.10)						
Tube inner diameter	mm (ln)	ID	acc. to IEEE C57.19.01-2017						69 (2.72)
Bottom terminal removable conductor		d1x1	acc. to IEEE C57.19.01-2017						

Connecting dimensions for solid conductor

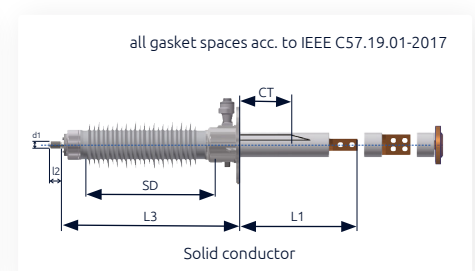
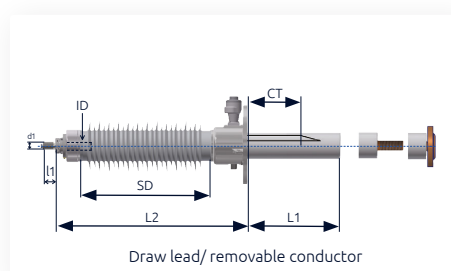
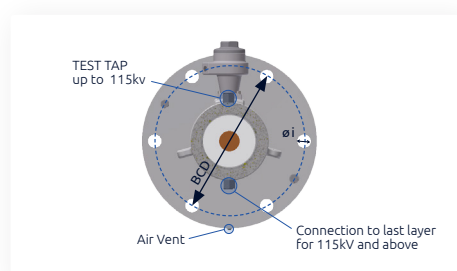
Air-side length	mm (ln)	L3	640 (25.50) 640 (25.50) 740 (29.10) 921 (36.30) 1418 (55.80) 1518 (62.20) 1791 (70.50) 2200 (86.60)						
Top terminal	mm (ln)	d1x1	for 2000 - 1.50"-12 UNF-2A x 64 (2.50) for 3000 - 2.00"-12 UNF-2A x 76 (3.00)						
Bottom terminal			acc. to IEEE C57.19.01-2017						

Flange dimensions

I _{max} : 800/1200/1600/2000 A							
Bolt Circle Diameter	mm (ln)	BCD	184,2 (7.25) 184,2 (7.25) 209,6 (8.25) 235 (9.25) 337 (13.25) 362 (14.25) 400 (15.75) 533,4 (21.00)				
Number of holes			4 4 4 6 6 6 8 12				
Size	mm (ln)	i	22,5 (0.88) 22,5 (0.88) 22,5 (0.88) 22,5 (0.88) 32 (1.25) 32 (1.25) 32 (1.25) 32 (1.25)				

I _{max} : 3000A							
Bolt Circle Diameter	mm (ln)	BCD	209,6 (8.25) 235 (9.25) 235 (9.25) 260,4 (10.25) - - - -				
Number of holes			4 6 6 6 - - - -				
Size	mm (ln)	i	22,5 (0.88) 22,5 (0.88) 22,5 (0.88) 22,5 (0.88) - - - -				

Dimension Drawing



Transformer Condenser Bushings - dry type with composite insulator acc. to IEEE C57.19.00 and C57.19.01

The STARIS is the epitome of our STAR-series. It is designed without any oil or paper, but with a solid active part made of vacuum impregnated synthetic – to reduce moisture sensitivity to an absolute minimum. The bushing has a fiber glass tube mounted insulator to enhance mechanical strength. The STARIS bushing is designed without any porcelain or combustible fluids and impresses with low operational costs and maintenance efforts.

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HSP Hochspannungsgeräte GmbH
Camp-Spich-Str. 18
53842 Troisdorf-Spich
Germany

Global Contact -
sales@hspkoeln.de

US Contact -
bushings.US@siemens-energy.com

