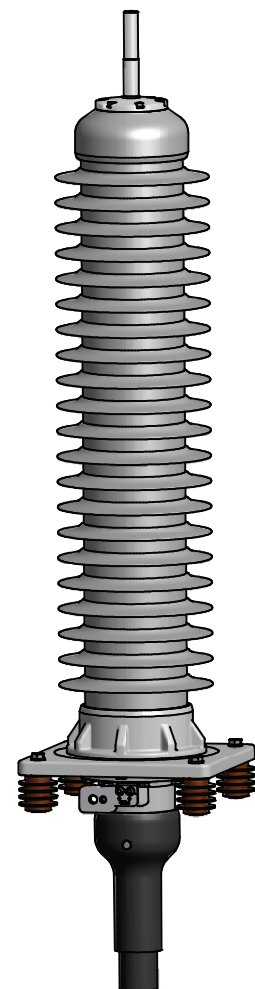


Höchste Spannung für Betriebsmittel (Um) highest voltage for equipment (Um)			123kV
Mindest-Kriechweg minimal creepage distance			3130mm
Verschmutzungs-kategorie pollution class	IEC60815 IEC60815-3	25.4mm/kV 44.1mm/kV	III d
Farbe des Isolators colour of insulator		grau grey	RAL 7040
Totalgewicht ohne Kabel (ca.) total weight without cable (approx.)			100kg

Kabelisolation Ø geschält Ø of cable insulation prepared	43-99mm
entspricht ca. Leiterquerschnitt conductor cross-section (approx.)	≤1600mm ²

Kopfarmatur Bolzenabmessungen head armature top bolt dimensions	
Leiterquerschnitt conductor cross-section	ØE [mm]
≤ 500mm ²	30
> 500mm ² - <1200mm ²	40
≥ 1200mm ²	50

Grundplatte base plate	C [mm]	D [mm]
Standard	420	345
auf Anfrage on request	500	400
auf Anfrage on request	320	270



Maßstab / scale 1 : 5	Gewicht ca. / weight ca. (g) 100000	Beschreibung / title ESS123-C31 Freiluft Endverschluss (Silikon) Outdoor termination (composite)	
Erstellt von created by GubisM	Datum / date 2016-09-16	Für Kunden	
Geprüft von approved by tanner	2017-03-07	Datenname / filename S04-124589	Format / size Blatt / sh. A2 1/1
PFISTERER PFISTERER Incaall AG Switzerland		Ersatz für / replacement for 730	Dokumentnr. / document no. 12
		Andr.nr. / rev. no. 2017-03-14	Index / rev. 12
		PRO00186	

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Technical data of ESS123-C31

HV composite termination with silicone rubber stress cone

Manufacturer	PFISTERER
Type designation	ESS123-C31
Application	composite outdoor
Applied standard	IEC 60840
Electrical levels (IEC 60840)	
Rated voltage (U)	110 – 115 kV
Highest voltage (Um)	123 kV
(Uo) for determination of test voltage	64 kV
Max. design voltage to ground	71 kV
Electrical typ test levels (IEC 60840)	
AC withstand voltage 15 min	160 kV
Lightning impulse voltage test (BIL)	550 kV
Heating cycles (AC voltage, 2Uo)	128 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV
Electrical routine test levels (IEC 60840)	
AC withstand voltage 30 min	160 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV
Each stress cone routine tested	yes
Current conditions	
Max. current rating	same as cable
Max. thermal short circuit current (1 s)	63 kA
	max. same as cable
Cantilever load on vertical installation	
Mechanical connector	4 kN
Operation conditions	
Ambient temperature	- 30 / + 55 °C
Max inclination	30°
Stress control	
Field control method	geometrical
Type	pre-molded
Material	silicone rubber
Production method	injection moulding
Production environment	clean room
Termination housing	
Filling compound	polybutene
On request	ester fluid
Overall length excl. head armature	1370 mm
Tube diameter with sheds	326 mm
Housing material	fibreglass
Sheds material	silicone rubber
Pollution level IEC 60815	25.4 mm/kV
Pollution level IEC 60815-3	44.1 mm/kV
Creepage distance	3130 mm
Flash over distance	1205 mm

Head armature	
Material	copper or aluminium
Conductor cross-section	120 – 1600 mm ²
Connection methods	
Bolted	120 – 1600 mm ²
Compression	120 – 1600 mm ²

Cable type	
Type	XLPE
Screen type	wire, lead sheath corrugated Al & Cu
Diameter over prepared insulation	43 – 99 mm
Range of overall cable diameter	50 – 150 mm

Base plate	
Material	aluminium
Fixing holes distance	
Standard	345 mm
On request	400 / 270 mm

Post insulators	
Included in scope of supply	4 pcs
Material	epoxy resin

Screen pot	
Type of cable screen to be used	all types
Material of housing	aluminium
Earth point	50 – 630 mm ²

Earthing cable	
Material	supplied by customer

Installation	
Installation work	only by certified fitters
Installation temperature	min. 0 / max. + 55 °C
Site conditions	clean environment

Packing	
Gross weight 6 pcs (approx.)	680 kg
Wooden box	standard
Installation instruction for each kit	yes

Storage	
Conditions	clean and dry
Long-term storage temperature	min. 0 / max. + 25 °C
Shelf life items	2 years
Non-shelf life items	10 years
Expected service life after installation	40 years

