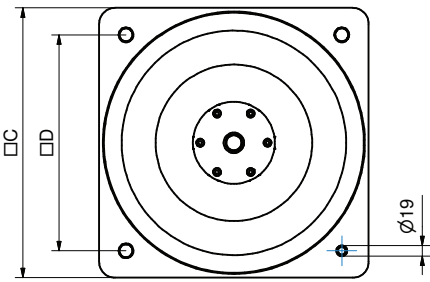
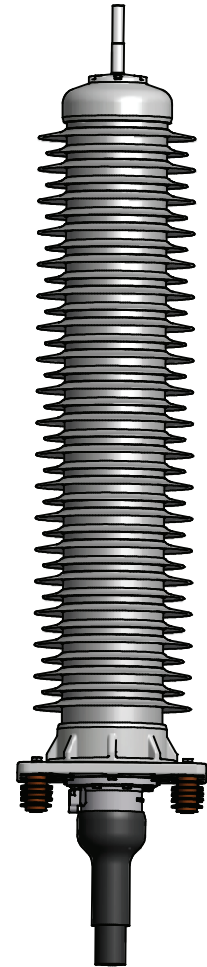


Höchste Spannung für Betriebsmittel (Um) highest voltage for equipment (Um)			170kV
Mindest-Kriechweg minimal creepage distance			5920mm
Verschmutzungsstufe pollution class	IEC 60815 IEC60815-3	31.7mm/kV 58.5mm/kV	IV e
Farbe des Isolators colour of insulator		grau grey	RAL 7040
Totalgewicht ohne Kabel (ca.) total weight without cable (approx.)			175kg

Kabelisolation ø geschält ø of cable insulation prepared		54-99mm
entspricht ca. Leiterquerschnitt conductor cross-section (approx.)		≤2000mm 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	500	400
auf Anfrage on request	420	345



Maßstab / scale 1 : 10 (0,11:1)	Gewicht ca. / weight ca. (g) 175000	Beschreibung / title ESS170-C58 Freiluft-Endverschluss (Silikon)	
Erstellt von created by Gubism	Datum / date 2016-01-29	Outdoor-termination (composite)	
Geprüft von approved by Kempfu	Datum / date 2016-01-29	Ersatz für / replacement for Für Kunden	
PFISTERER PFISTERER Incoatl AG Switzerland		Dokumentnr. / document no. S04-124864	Formal / size Blatt / sh. A0 3/1
Andr. / rev. no. 595	And.datum / date of issue 2016-01-29	Name / name GubisM	Index / rev. 07
			PRO00162

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Technical data of ESS170-C58

HV composite termination with silicone rubber stress cone

Manufacturer	PFISTERER
Type designation	ESS170-C58
Application	composite outdoor
Applied standard	IEC 60840

Electrical levels (IEC 60840)	
Rated voltage (U)	150 – 161 kV
Highest voltage (Um)	170 kV
(U ₀) for determination of test voltage	87 kV
Max. design voltage to ground	98 kV

Electrical typ test levels (IEC 60840)	
AC withstand voltage 15 min	218 kV
Lightning impulse voltage test (BIL)	750 kV
Heating cycles (AC voltage, 2U ₀)	174 kV
Partial discharge test < 5pc at 1.5 U ₀	131 kV

Electrical routine test levels (IEC 60840)	
AC withstand voltage 30 min	218 kV
Partial discharge test < 5pc at 1.5 U ₀	131 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	1810 mm
Tube diameter with sheds	416 mm
Housing material	fibre glass
Sheds material	silicone rubber
Pollution level IEC 60815	31.7 mm/kV
Pollution level IEC 60815-3	58.5 mm/kV
Creepage distance	5920 mm
Flash over distance	1670 mm

Head armature	
Material	copper or aluminium
Conductor size	185 – 2000 mm ²
Connection methods	
Bolted	185 – 2000 mm ²
Compression	185 – 2000 mm ²

Cable type	
Type	XLPE
Screen type	wire, lead sheath corrugated Al & Cu
Diameter over prepared insulation	54 – 99 mm
Range of overall cable diameter	60 – 150 mm

Base plate	
Material	aluminium
Fixing holes distance	
Standard	400 mm
On request	345 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.)	1200 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

