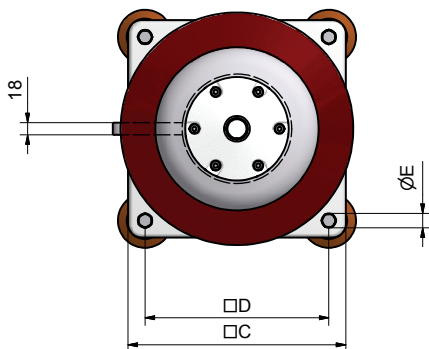
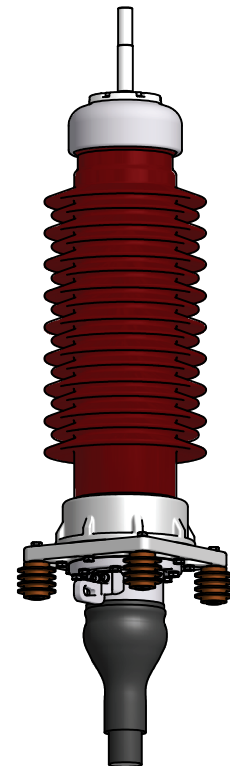


Höchste Spannung für Betriebsmittel (Um) highest voltage for equipment (Um)			72.5kV
Mindest-Kriechweg minimal creepage distance			2248mm
Verschmutzungs-kategorie pollution class	IEC 60815 IEC 60815-2	31mm/kV 53.7mm/kV	IV e
Farbe des Isolators colour of insulator		braun brown	RAL 8016
Totalgewicht ohne Kabel (ca.) total weight without cable (approx.)			110kg

Kabelisolation $\varnothing$ geschält $\varnothing$ of cable insulation prepared		38-84mm
entspricht ca. Leiterquerschnitt conductor cross-section (approx.)		$\leq 2000\text{mm}^2$

Kopfarmatur Bolzenabmessungen head armature top bolt dimensions		
Leiterquerschnitt conductor cross-section	$\varnothing k$ [mm]	l [mm]
$\leq 500\text{mm}^2$	30	100
$> 500\text{mm}^2 - < 1200\text{mm}^2$	40	100
$\geq 1200\text{mm}^2$	50	100
auf Anfrage (Leiterabhängig) on request (subject to conductor)		L

Grundplatte base plate	C [mm]	D [mm]	$\varnothing E$ [mm]
Standard	320	270	19
auf Anfrage on request	420	345	19



ESP72-C23 Freiluft Endverschluss (Porzellan) Outdoor termination (porcelain)	Erstellt durch created by	GubisM	2013-01-11
	Gemehmt von approved by	KempfU	2013-01-11
<b>PFISTERER</b>   IXOSIL	Datei Nr. file no.	S04-124675	
	Zeichnungs Nr. / drawing no.	PRO00180	Index / rev. 07

CH-Altendorf Switzerland

## Technical data of ESP72-C23

### HV porcelain termination with silicone rubber stress cone

<b>Manufacturer</b>	<b>PFISTERER</b>
Type designation	ESP72-C23
Application	porcelain outdoor
Applied standard	IEC 60840

#### Electrical levels (IEC 60840)

Rated voltage (U)	60 - 69 kV
Highest voltage (Um)	72.5 kV
(Uo) for determination of test voltage	36 kV
Max. design voltage to ground	42 kV

#### Electrical typ test levels (IEC 60840)

AC withstand voltage 15 min	90 kV
Lightning impulse voltage test (BIL)	325 kV
Heating cycles (AC voltage, 2Uo)	72 kV
Partial discharge test < 5pc at 1.5 Uo	54 kV

#### Electrical routine test levels (IEC 60840)

AC withstand voltage 30 min	90 kV
Partial discharge test < 5pc at 1.5 Uo	54 kV
Each stress cone routine tested	yes

#### Current conditions

Max. current rating	same as cable
Max. thermal short circuit current (I s)	63 kA max. same as cable

#### Cantilever load on vertical installation

Mechanical connector	4,3 kN
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#### Operation conditions

Ambient temperature	- 30 / + 55 °C
Max inclination	30°

#### Stress control

Field control method	geometrical
Type	pre-moulded
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	950 mm
Tube diameter with sheds	342 mm
Housing material	porcelain
Sheds material	porcelain
Pollution level IEC 60815:1986	31 mm/kV
Pollution level IEC 60815-2	53.7 mm/kV
Creepage distance	2248 mm
Flash over distance	674 mm

#### Head armature

Material	copper or aluminium
Conductor size	185 – 2000 mm <sup>2</sup>
Connection methods	
Bolted	95 – 2000 mm <sup>2</sup>
Compression	95 – 2000 mm <sup>2</sup>

#### Cable type

Type	XLPE
Screen type	wire, lead sheath corrugated Al & Cu
Diameter over prepared insulation	38 - 84 mm
Range of overall cable diameter	50 - 150 mm

#### Base plate

Material	aluminium
Fixing holes distance	
Standard	270 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 <sup>2</sup>

#### Earthing cable

Material	supplied by customer
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#### Installation

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

#### Packing

Gross weight 6 pcs (approx.)	750 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

