

Technical Data Sheet

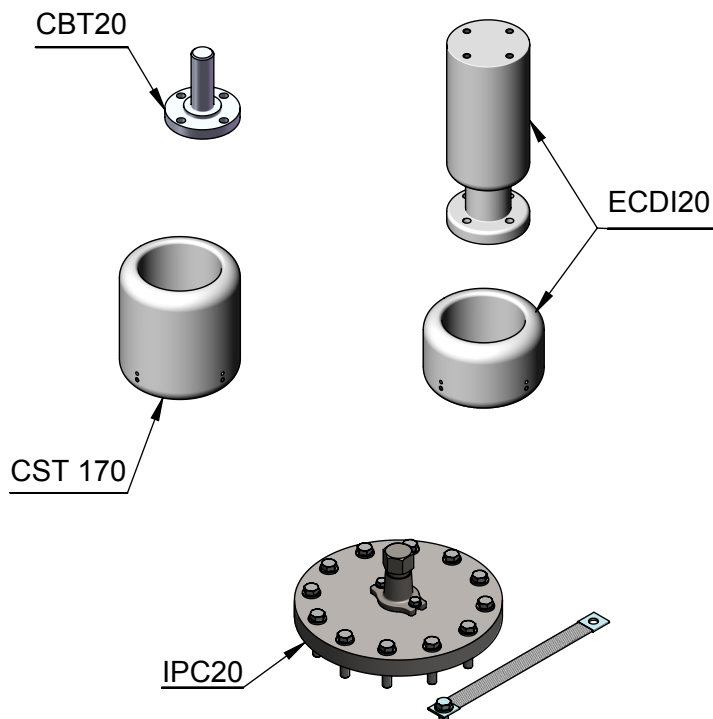
CD20 Socket 123-170kV

Socket for dry plug-in cable termination CD20 Plug

CD20 Socket
Insulator kit



Optional equipment



Use

Suitable for cable installations as a fixed connection point in a gas-insulated switchgear or an oil-filled transformer box. Designed to meet the requirements of internationally accepted standards.

Design

The CD20 Socket contains of the following components:

- Top fitting
- Epoxy Insulator
- Pressure ring with paper laminate gasket.

Optional equipment

- CST 170 Corona shield for installation in transformer.
- ECDI20 IEC extension adapter will extend the insertion depth to 757mm.
- CBT20 Contact bolt for installation in transformer.
- IPC20 Protective cover for insulator.

Installation

Fits CD20 Plug.

The installation can be done either in single standard installation, three standard installation or three compact optional installation, described on page 2.

CD20 Socket fulfills:

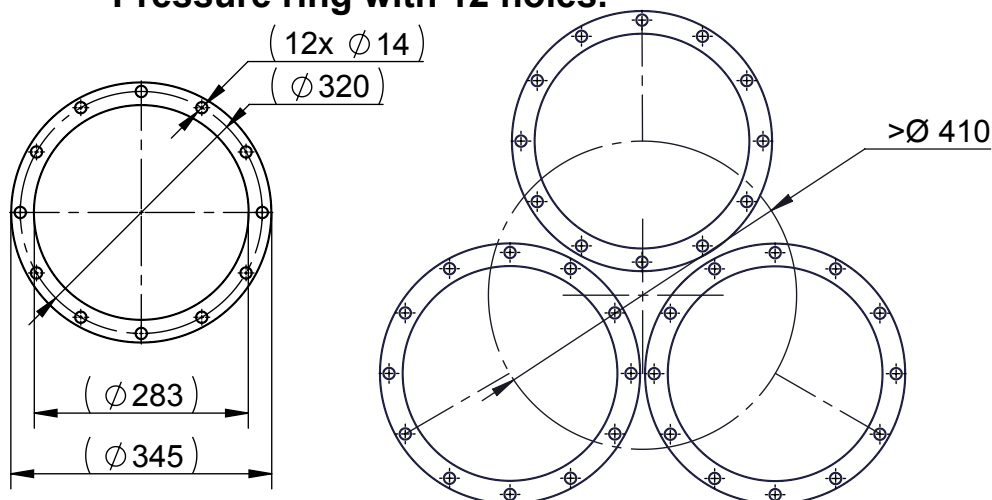
- **GIS: IEC 62271-209 (dry type).** Described on page 3.
- **Transformer: EN 50299-2 (dry type).** Described on page 4.

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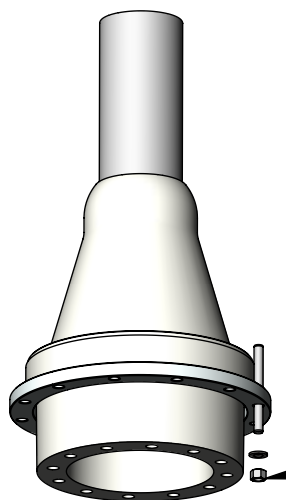
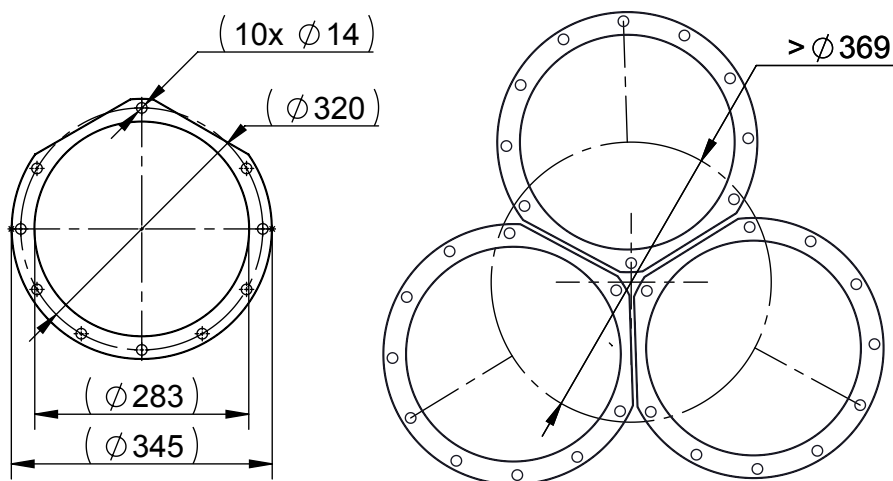
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Standard and compact installation for CD20 Socket 123-170kV

1. When use of standard installation. Pressure ring with 12 holes.



2. When use of optional compact installation. Pressure ring chamfered and with 10 holes.



CD20 Socket is attached according to IEC 62271-209 or EN 50299-2 standard with M12 studs, washer and nut. Note! These are part of the switchgear/transformer and not parts of cable accessory delivery/supply.

Recommendation:
Tighten the nuts crosswise to a torque of 45Nm. Note that the fastener to be used must withstand specified torque.

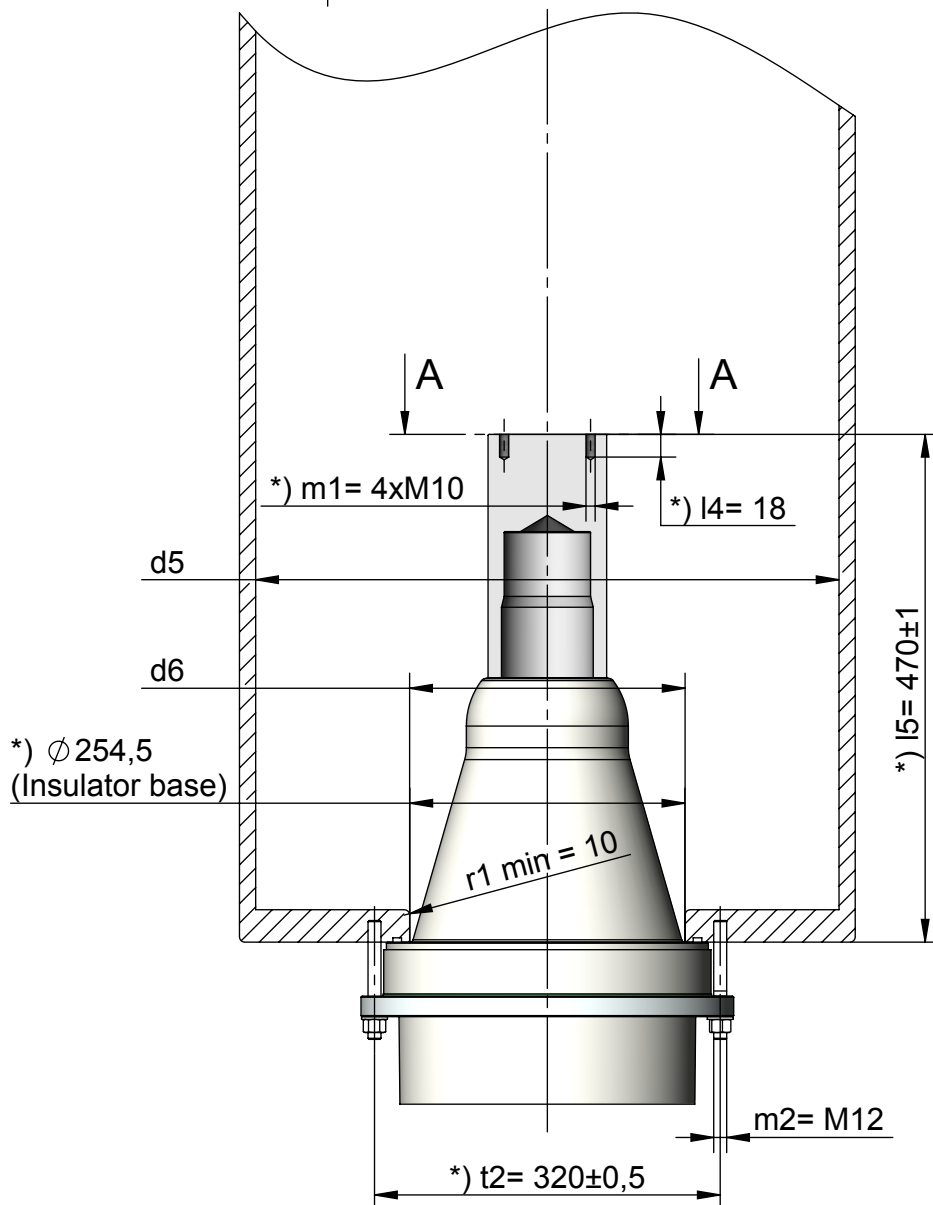
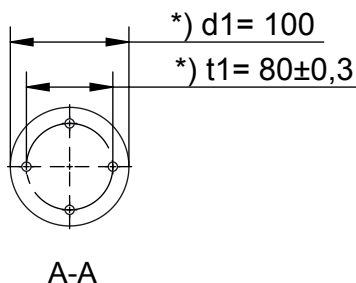
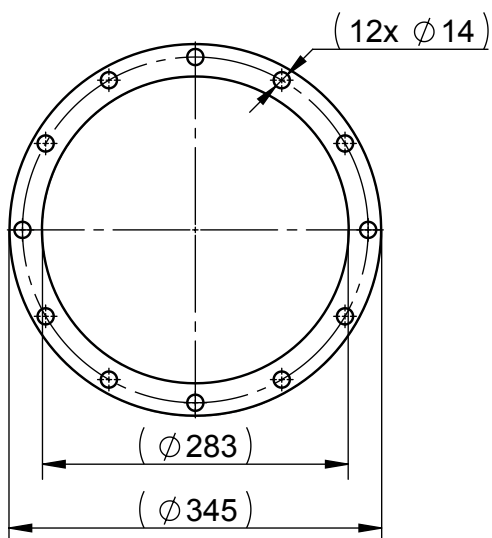
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CD20 Socket 123-170kV

GIS standard: IEC 62271-209 (dry type)

- Dimensions according to IEC 62271-209
- Measures in mm if not mentioned otherwise
- *) Dimensions applying to CD20 Socket



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Dimension diagram IEC 62271-209

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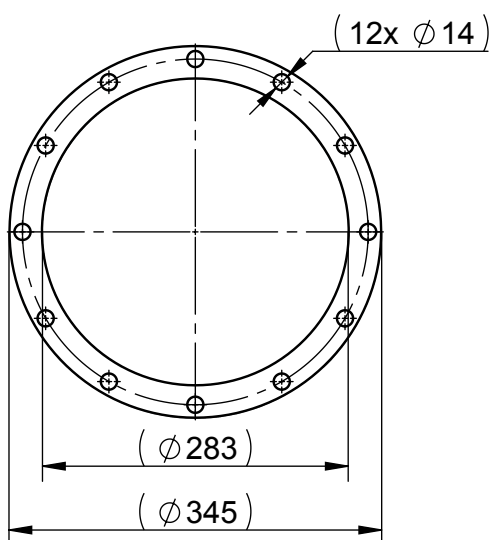
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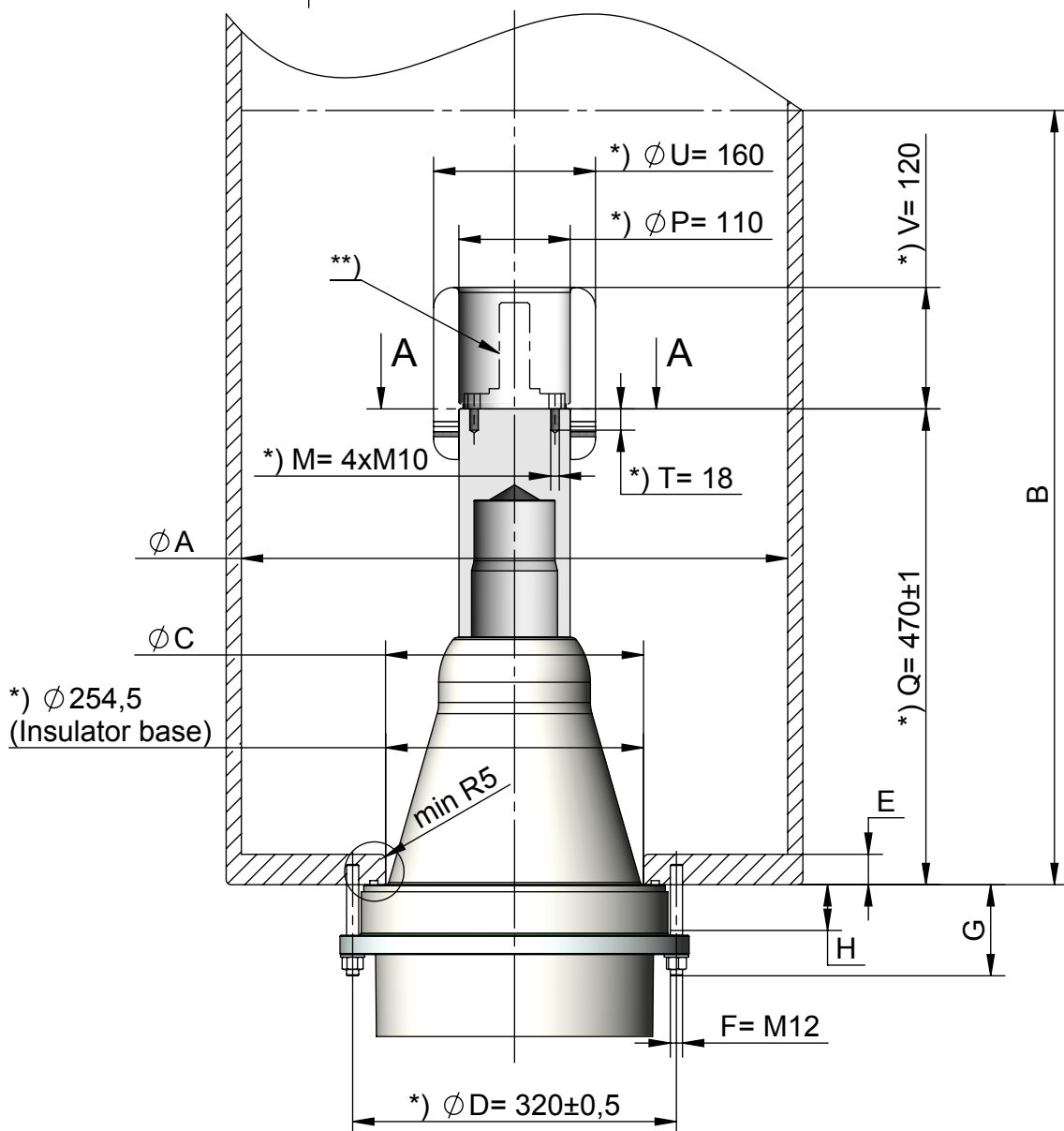
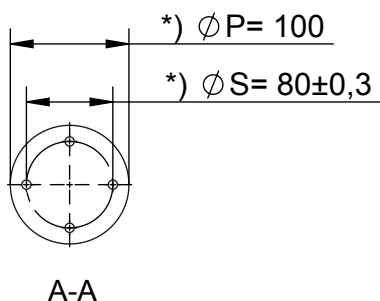
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CD20 Socket 123-170kV

Transformer standard: EN 50299-2 (dry type)



- Dimensions according to EN 50299-2
- Measures in mm if not mentioned otherwise
- *) Dimensions applying to CD20 Socket
- **) Optional contact bolt to be ordered separately



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Dimension diagram EN 50299-2

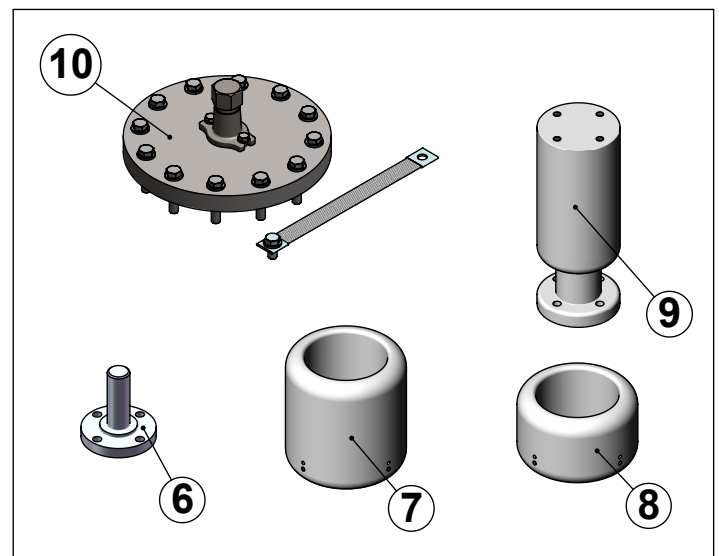
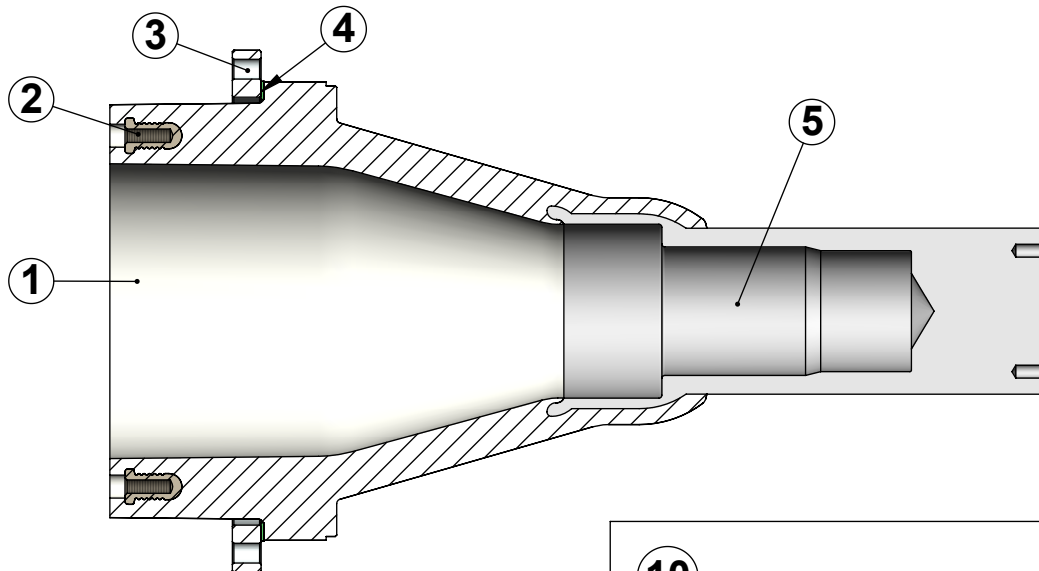
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*) Part of CD20 Socket

**) Optional equipment

Exposed screws, nuts and washers are of stainless steel or hot galvanized steel		
10	IPC20 Protection cover **)	Aluminium
9	ECDI20 Extension **)	Aluminium
8	ECDI20 Corona shield **)	Aluminium
7	CST 170 Corona shield **)	Aluminium
6	CBT20 Contact bolt **)	Copper, Silver coated
5	Top fitting *)	Aluminium, Silver coated
4	Gasket *)	Paper laminate
3	Pressure ring *)	Aluminium
2	Threaded inserts *)	Aluminium
1	Cast resin insulator *)	Epoxy
Item No.	Name of Item	Material

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Cutaway drawing

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Technical Data of CD20 Socket 123-170kV

Socket for dry plug-in cable termination CD20 Plug

Manufacturer	NKT
Country	Sweden
Type designation	CD20 Socket
Application	Indoor and outdoor
Applicable standard	IEC 60840, IEC 62271-209 (Dimensions) EN 50299-2 (Dimensions)
Weight	
Net weight, insulator CDI20 Socket kit (kg)	30
Optional equipment	
IEC extension adapter, extend insert depth to 757mm.	ECDI20
Corona shield for installation in transformer (TRF)	CST 170
Contact bolt for installation in transformer (TRF)	CBT20
Protective cover for insulator	IPC20
Pressure ring for compact installation	Pressure ring, compact
Routine test	
Epoxy insulator	According to EN 50089
All parts of the socket	Visual inspection
Storage conditions	
<i>When stored dry in original, unopened packaging at temperatures in the range of -30°C to 30°C:</i>	
Epoxy insulator	10 years
Metal hardware	No limit
Installation requirements	
Aproximate recommended ambient temperature during installation (°C)	+5 to +30
Maximum installation angle from vertical position (°)	No limit
Operation conditions	
Expected service life after installation (years)	>30
Maintenance	Free

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