

GIS termination (127/220 kV)

Product Descriptions

- The whole dry structure is not filled with insulating oil, which overcomes the aging problem of stress cone caused by soaking in insulating oil, and improves the service life of stress cone and avoids leakage in operation.
- The surface of stress cone is attached to the epoxy resin insulator by a combined spring compaction device, which can keep constant interface pressure and overcomes the relaxation phenomenon caused by material aging of stress cone to ensure the safe operation of terminal.
- The product has the advantages of light weight, small volume, compact structure and convenient installation and maintenance.
- High-voltage metal shield electrode is embedded in epoxy resin insulator. Rubber stress cone adopts imported high-elastic liquid silicone rubber and optimizes the structure shape of stress cone product.



Technical Requirements

- The GIS termination is connected to the GIS switchgear or GIL equipment .
- GIS termination can be installed at any angle or inverted.
- GIS termination is installed in the gas insulated cylinder filled with SF₆.
- The design working pressure (gauge pressure) of SF₆ gas for external insulation of GIS termination at 20 °C is 0.70 MPa maximum and 0.25 MPa minimum.

Additional option:GIS terminals have short and long types.

Technical Specifications

Area Of Application

Applicable cable cross-sections:	240~2500 mm ²
Max.system voltage:	252 kV
System rated frequency:	50 Hz
Elevation:	≤2000 m
Operation temperature:	-55 °C~45 °C
Cable Shield Style	Tape/wire/corrugated Al

Design Data

Height	1260±30 mm(short type) 1617±30 mm(long type)
Weight(excluding cable)	180 kg / 396.83 lbs(short type) 230 kg / 507.06 lbs(long type)
Epoxy resin insulator	Material Epoxy resin
	Withstand pressure 1.0 MPa
Compression device of stress cone	Spring compression
Min.working pressure of SF ₆	0.2 MPa
Storage temperature	0 °C~35 °C
Installation temperature	5 °C~35 °C

Electrical Test

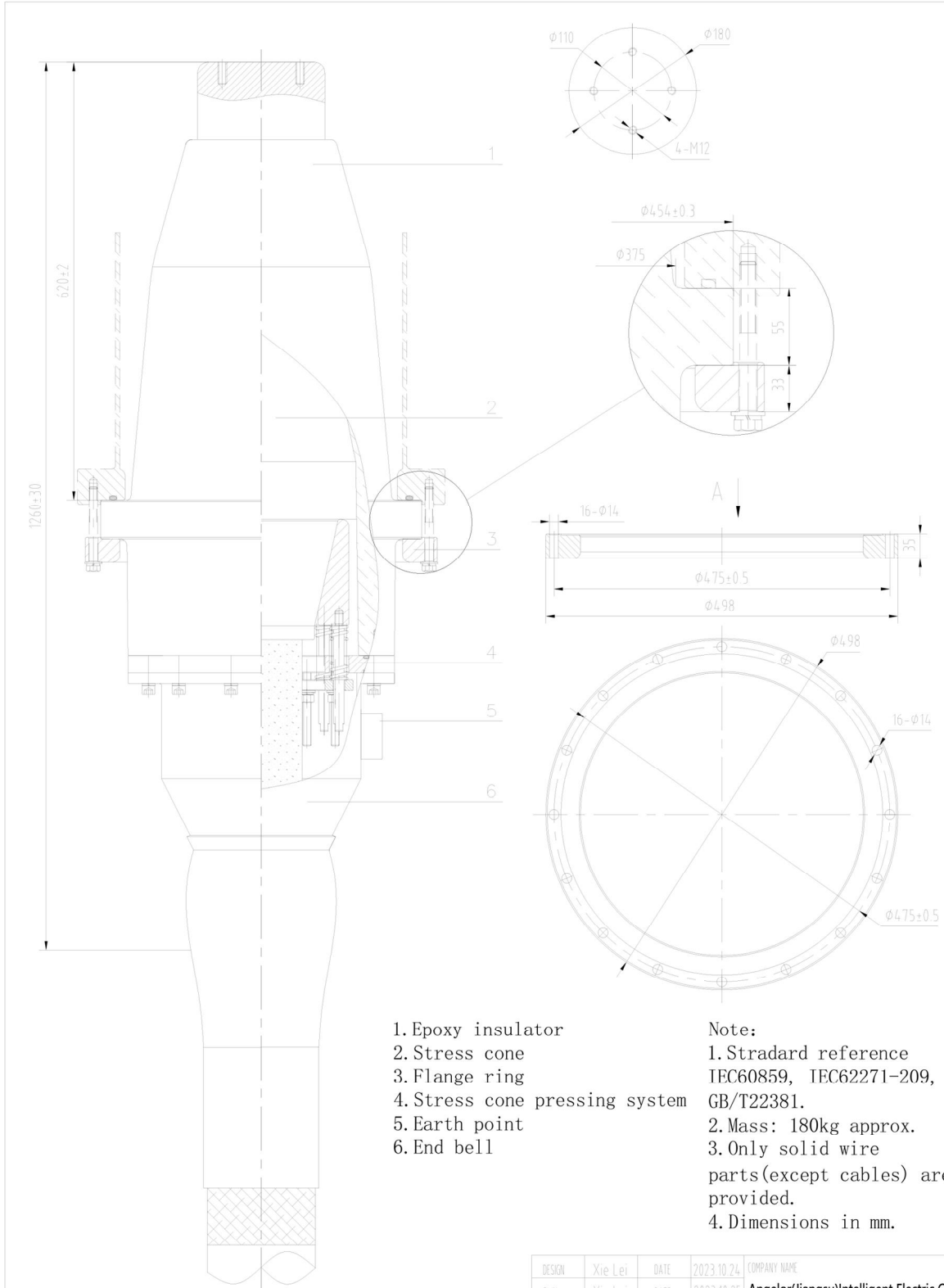
Electrical Type Test (IEC 62067)

Heating cycle voltage	254 kV
Partial discharge test at ambient and elevated temperatures	No detctable discharge exceeding the declared sensitivity(191 kV, 3.8pC)
Lighting impulse voltage	±1050 kV

Electrical Routine Test (IEC 62067)

AC withstand voltage (wet,1 min)	460 kV
Partial discharge test	No detctable discharge exceeding the declared sensitivity(191 kV, 3.8pC)

Structure Diagram — Short Type



DESIGN	Xie Lei	DATE	2023.10.24	COMPANY NAME	Angelor(Jiangsu)Intelligent Electric Co. Ltd.
DRAWN	Xie Lei	DATE	2023.10.25	NAME	220kV GIS termination-short type
CHK	Zhang Haitao	DATE	2023.11.8	DRAWING MARK	MASS
APVD	Zhang Haitao	DATE	2023.11.8	SCALE	15
VERSION NUMBER	Rx 01	REVISION NUMBER	-	DRAWING NUMBER	YJZGG/S 127/220

Structure Diagram — Long Type

