

Composite insulation outdoor termination (127/220 kV)

Product Descriptions

- Epoxy insulator is covered with silicone rubber umbrella skirt. Flexible composite insulator is filled with high-quality filling fluid. It is suitable for densely populated areas where electrical equipment is concentrated.
- The composite insulator is light in weight and convenient for transportation and installation.
- The product is safe and explosion-proof, which can ensure the safety of surrounding personnel and electrical equipment..
- The product has excellent hydrophobic characteristics, anti-creepage, arc resistance, weatherability and pollution resistance, and the external insulation is not easy to age.

Technical Requirements

- Only vertical installation, cannot be installed at a certain angle or inverted installation.
- The connector can be chosen as the compression or sheat bolt.
- When installing outdoor terminations, users need to provide assistance in erecting installation platforms and sheds and hoisting casing.



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		3140±30 mm
Weight(excluding cable)		350 kg / 771.62 lbs
Composite insulator	Bending moment resistance	≥5000 kN
	Internal withstand pressure	2.4 MPa
	Breakdown pressure	3.5 MPa
Filling fluid(material)		PIB/Gel
Creepage distance		≥9300 mm
Permissible horizontal pull of connecting wire		≥2 kN
Storage temperature		0 °C~35 °C
Installation temperature		5 °C~35 °C

Electrical Test

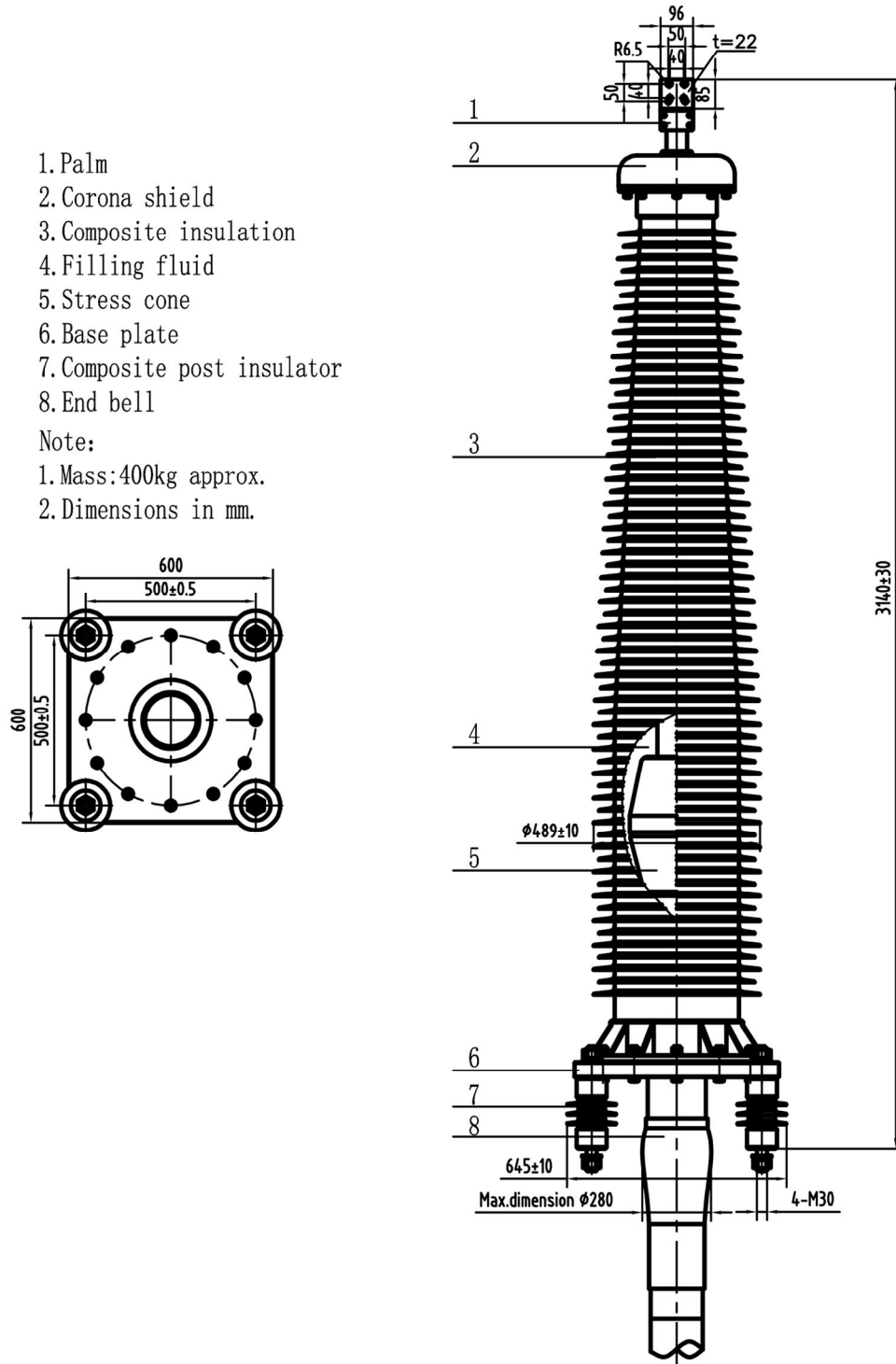
Electrical Type Test (IEC 62067)

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



DESIGN	Wu Jiaqi	DATE	2023.10.13	COMPANY NAME	Angelor(Jiangsu)Intelligent Electric Co. Ltd.
DWN	Wu Jiaqi	DATE	2023.10.18	NAME	220kV Composite insulation outdoor termination
CHK	Zhang Haitao	DATE	2023.10.19	DRAWING MARK	MASS
APVD	Zhang Haitao	DATE	2023.10.19	SCALE	1:12
			400.00kg	DRAWING NUMBER	YJZWFY4 127/220
DESIGN NUMBER	Rx.01	DESIGN NUMBER	-		