

GIS termination (64/110 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:	240~1600 mm ²
Max.system voltage:	126 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	1080±10 mm(short type) 1264±10 mm(long type)
Weight(excluding cable)	55 kg / 121.3 lbs(short type) 65 kg / 143.3 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	0.25 MPa
Storage temperature	0 °C~35 °C
Installation temperature	5 °C~35 °C

Electrical Test

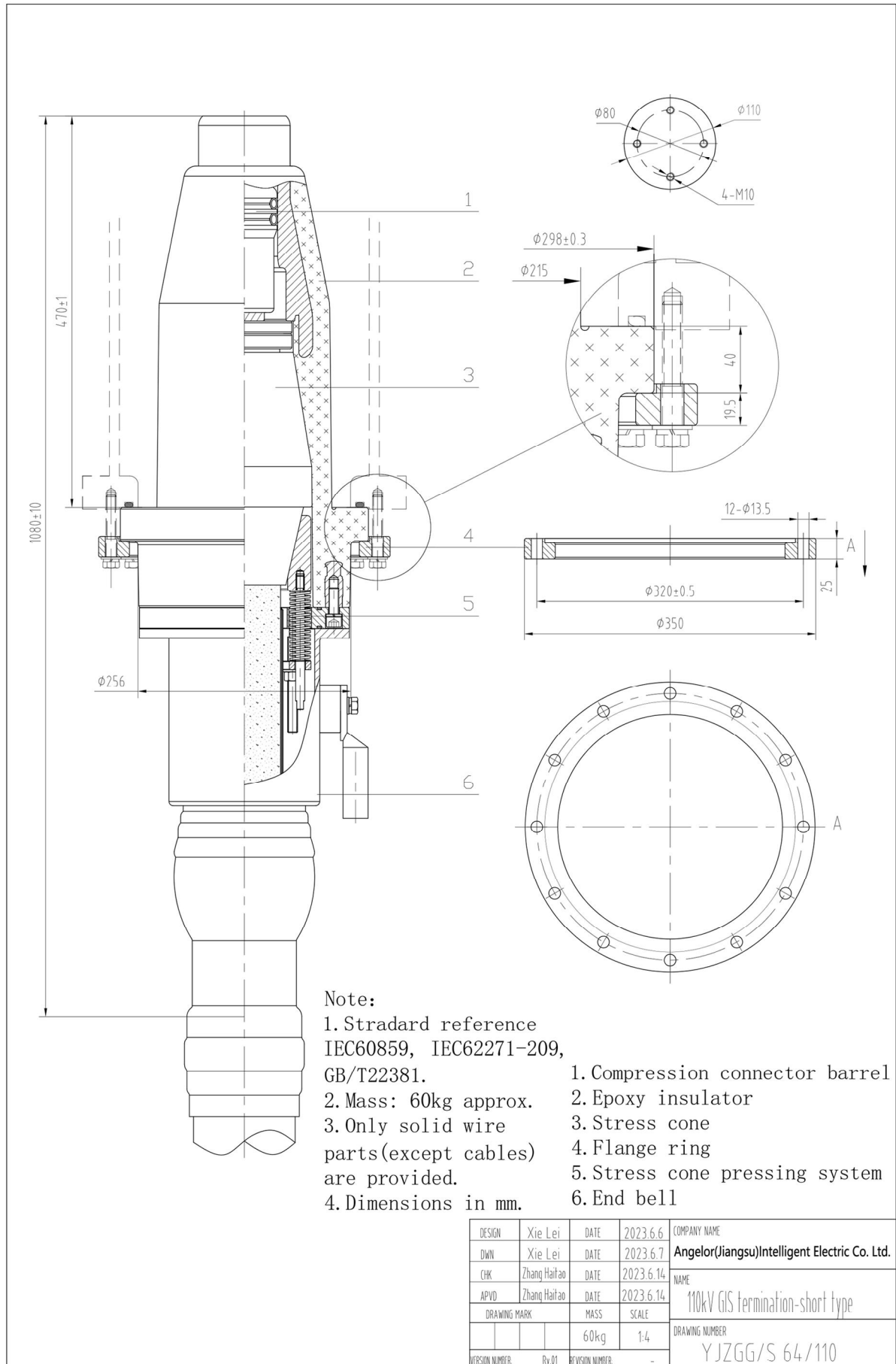
Electrical Type Test (IEC 60840)

Heating cycle voltage	152 kV
Partial discharge test at ambient and elevated temperatures	No detectable discharge exceeding the declared sensitivity (114kV, 3.6pC)
Lighting impulse voltage 1.2 μs/50 μs	650 kV

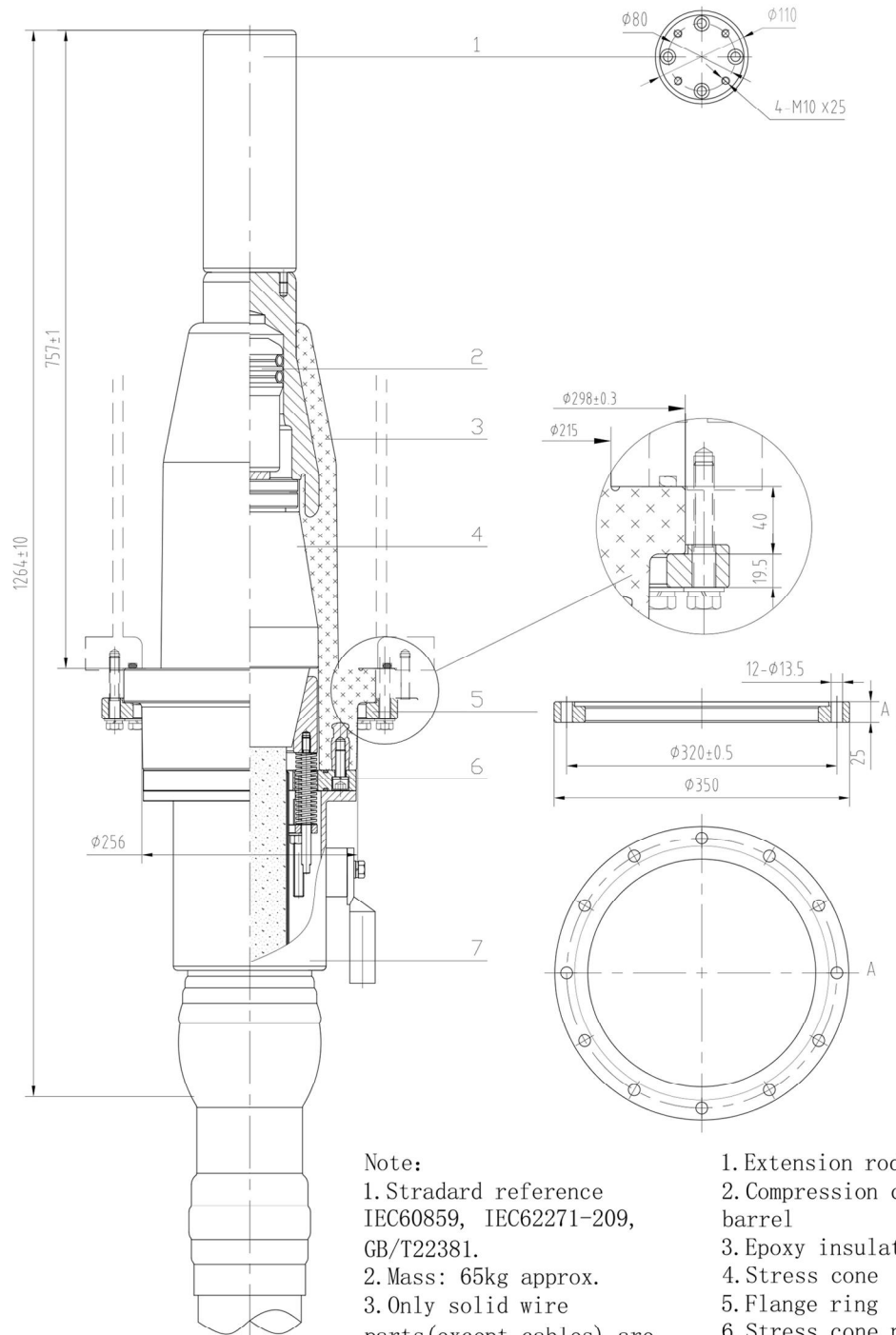
Electrical Routine Test (IEC 60840)

AC withstand voltage	190 kV
Partial discharge test	No detectable discharge exceeding the declared sensitivity (114kV, 3.6pC)

Structure Diagram — Short Type



Structure Diagram — Long Type



Note:

1. Standard reference IEC60859, IEC62271-209, GB/T22381.
2. Mass: 65kg approx.
3. Only solid wire parts(except cables) are provided.
4. Dimensions in mm.

1. Extension rod
2. Compression connector barrel
3. Epoxy insulator
4. Stress cone
5. Flange ring
6. Stress cone pressing system
7. End bell

DESIGN	Xie Lei	DATE	2023.6.6	COMPANY NAME	Angelor(Jiangsu)Intelligent Electric Co. Ltd.
DWN	Xie Lei	DATE	2023.6.9	NAME	110kV GIS termination-long type
CHK	Zhang Haitao	DATE	2023.6.14	DRAWING NUMBER	YJZGG/L 64/110
APVD	Zhang Haitao	DATE	2023.6.14		
DRAWING MARK		MASS	70.00	SCALE	1:5
VERSION NUMBER		REVISION NUMBER			