



XIAN XD HIGH VOLTAGE BUSHING CO., LTD.

DWG.

CAT. NO.: 75366 REV. 03

TYPE:

BRFGL1-52/3150-4

Draw by

Zhang Jie

Checked by

Zhang Tao

Approved by

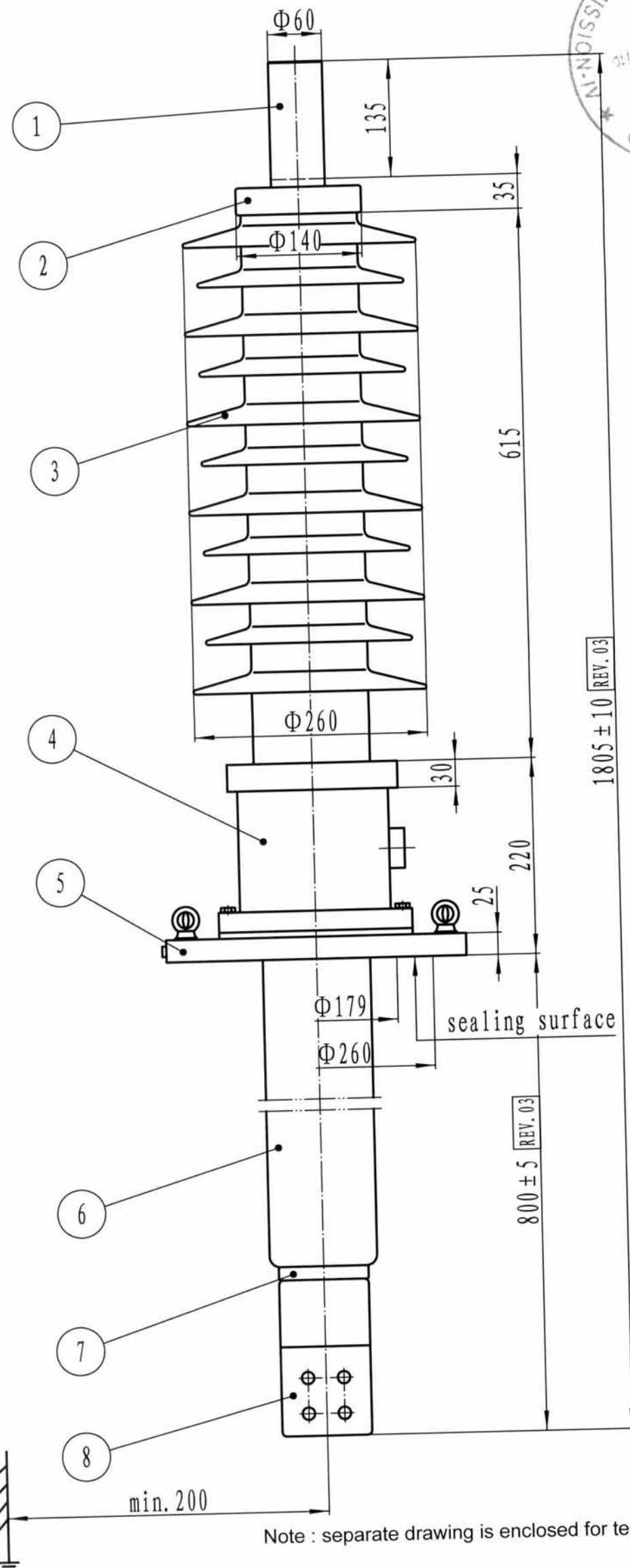
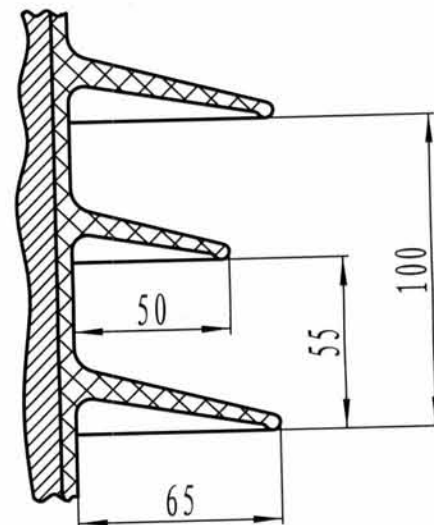
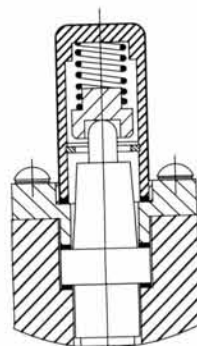
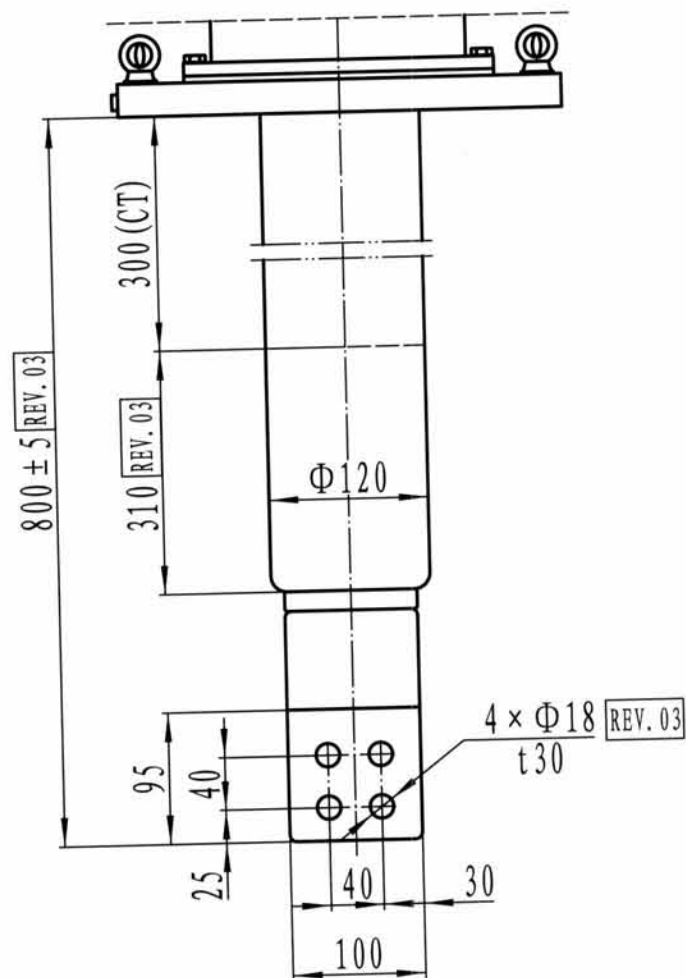
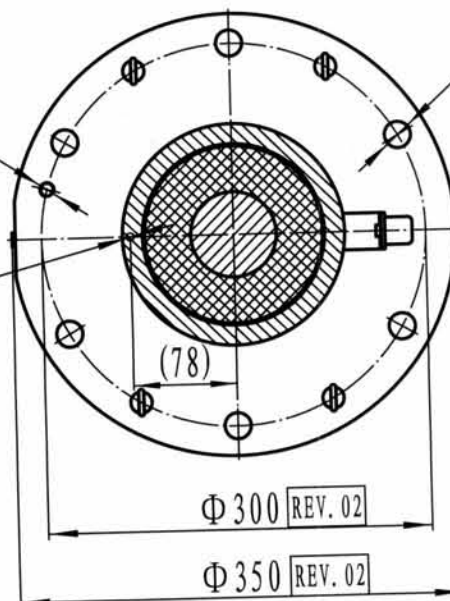
Pan Yamin

REV. NO	Revision Description	Date
REV. 01	Add test tap details; Add terminal material and packing details on GTP	2015.12.28
REV. 02	①Revise length in oil end from 675 to 685, total length from 1680 to 1690, insulation from 185 to 195; ②revise flange dimension from $\Phi 290$ and $\Phi 335$ to $\Phi 300$ and $\Phi 350$; revise mounting hole from $12 \times \Phi 15$ to $6 \times \Phi 20$; ③revise diameter of terminal in oil end from $\Phi 14$ from $\Phi 18$;	2016.1.12
REV. 03	①Revise length in oil end from 685 to 800, total length from 1690 to 1805, insulation from 195 to 310; ②revise thickness of terminal in oil end from 20 from 30;	2016.2.3

NO.	DESCRIPTION	MATERIAL	QTY.
1	CURRENT-CARRYING POLE	ELECTROLYTIC COPPER	1NO.
2	COVER PLANT	ALUMINUM	1NO.
3	EXTERNAL INSULATION	SILICONE RUBBER COATING	1NO.
4	SLEEVE	ALUMINUM	1NO.
5	FLANGE	ALUMINUM	1NO.
6	INSULATION CORE	RESIN IMPREGNATE PAPER	1NO.
7	SPECIAL NUT	BRASS	1NO.
8	TERMINAL PLATE	BRASS	1NO.



TEST TAP REV. 01

ST12
earthing hole $\Phi 6$
transform air vent $6 \times \Phi 20$
EQS REV. 02

Note : separate drawing is enclosed for test tap details



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Guaranteed Technical Parameters for 52kV bushing

DWG./CAT. NO.	75366 REV.03
TYPE NO.	BRFGL1-52/3150-4
TITLE:	RIP Transformer Bushing

1. DESIGN

1.1 BUSHING TYPE	Resin Impregnated Paper
1.2 STANDARD APPLICABLE	IEC 60137-2008
1.3 CONDENSER CORE	Epoxy Resin Impregnated Paper
1.4 CONDUCTOR MATERIAL & CROSS SECTIONAL AREA	Copper & 2827 mm ²
1.5 CURRENT-CARRY FORM	Bottom Connected (Stem Type)
1.6 MAX. TEMPERATURE OF METAL PARTS IN CONTACT WITH OIL AND INSULATING MATERIAL UNDER NORMAL OPERATING CONDITION	120°C
1.7 PAPER	Crepe Paper
1.8 HOUSING	
- MATERIAL:	HTV Silicon Rubber
- SILICON CONTENT:	35%
- TRACK RESISTANCE:	Class 1A4.5 according to IEC 60587
- SHED PROFILE:	Alternate (as drawing enclosed)
- PROCESSING	Injection Moulding
- COLOR	Grey
1.9 TERMINAL	Electrolytic Copper Plated by Silver
1.10 FLANGE	Weather Resistance Aluminum Alloy
1.11 TEST TAP	For capacitance and tan δ measurement; 2.0kV withstand voltage
1.12 MOUNTING ANGLE FROM VERTICAL	0~90°
1.13 AMBIENT AIR TEMPERATURE:	-40°C~+50°C
1.14 ALTITUDE	1000m
1.15 CT SPACE	300 mm
1.16 WEIGHT	≈100kg (Approx.)
1.17 PACKING	Complete wooden package; Bottom end fitted with metal housing; (as per Packing Drawing TY-75366BX with packing details)





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2. TECHNICAL DATA

2.1 HIGHEST VOLTAGE FOR EQUIPMENT(U _m)	kV	52
2.2 RATED PHASE TO EARTH VOLTAGE , MAX. SERVICE VOLTAGE	kV	30
2.3 RATED FREQUENCY(fr)	HZ	50
2.4 RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE (BIL)	kV	305
2.5 RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (SIL)	kV	/
2.6 RATED CURRENT (I _r)	A	3150
2.7 RATED THERMAL SHORT TIME CURRENT	kA	78.7, 2s
2.8 RATED DYNAMIC CURRENT (I _d)	kA	196.7
2.9 CANTILEVER LOAD	N	3150
2.10 TAN δ	%	< 0.4
2.11 MAX PD LEVEL AT U _m	pC	< 10
2.12 CREEPAGE DISTANCE	mm	1612
2.13 ARCING DISTANCE	mm	615

3. ROUTINE TEST VOLTAGE LEVEL

3.1 POWER FREQUENCY WITHSTAND VOLTAGE DRY	kV(r.m.s), 1min	105
3.2 PARTIAL DISCHARGE LEVEL	pC	< 10
3.3 CAPACITANCE AND TAN δ MEASUREMENT;		Tan δ < 0.4%; C:340 ~ 425 pF
3.4 TEST TAP WITHSTAND VOLTAGE	kV	2.0
3.5 LIGHTNING IMPULSE WITHSTAND VOLTAGE (BIL)	kV(peak), 1.2/50 micro sec	305 neg.
3.6 CHOPPED LIGHTNING IMPULSE WITHSTAND VOLTAGE	kV(peak)	/





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4. TYPE TEST VOLTAGE LEVEL

4.1 POWER FREQUENCY WITHSTAND VOLTAGE WET	kV(r.m.s)	95
4.2 LIGHTNING IMPULSE WITHSTAND VOLTAGE (BIL)	kV(peak)	305 pos. 275 neg.
4.3 CHOPPED LIGHTNING IMPULSE WITHSTAND VOLTAGE	kV(peak)	/
4.4 SWITHCING IMPULSE WITHSTAND VOLTAGE (SIL)	kV	/
4.5 PARTICAL DISCHARGE AT Um LEVEL	pC	< 10
4.6 CAPACITANCE AND TAN δ MEASUREMENT		Tan δ < 0.4%; C:340 ~ 425 pF

5. REMARKS



