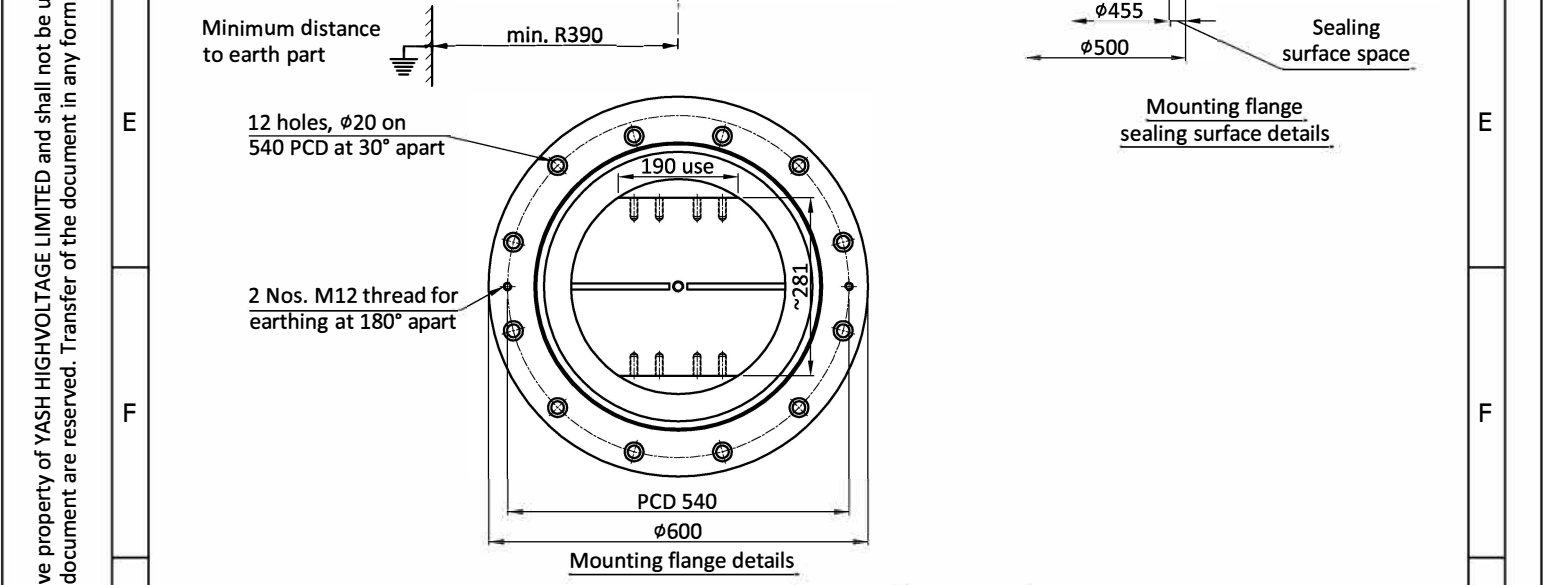
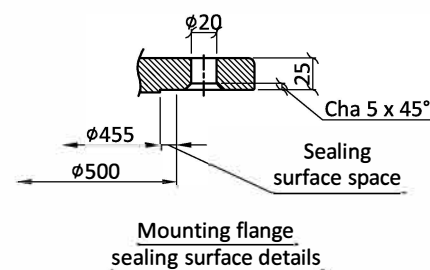
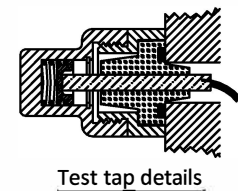
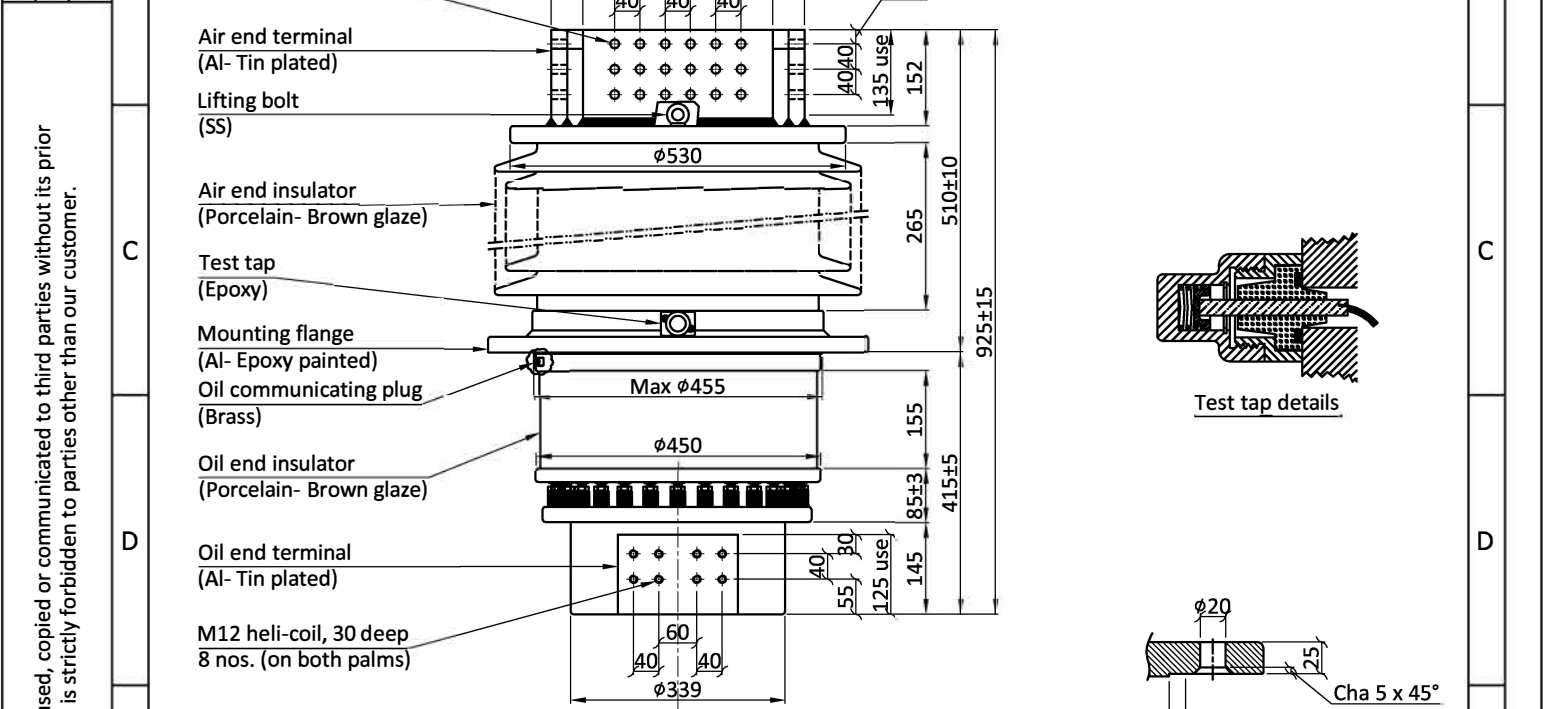
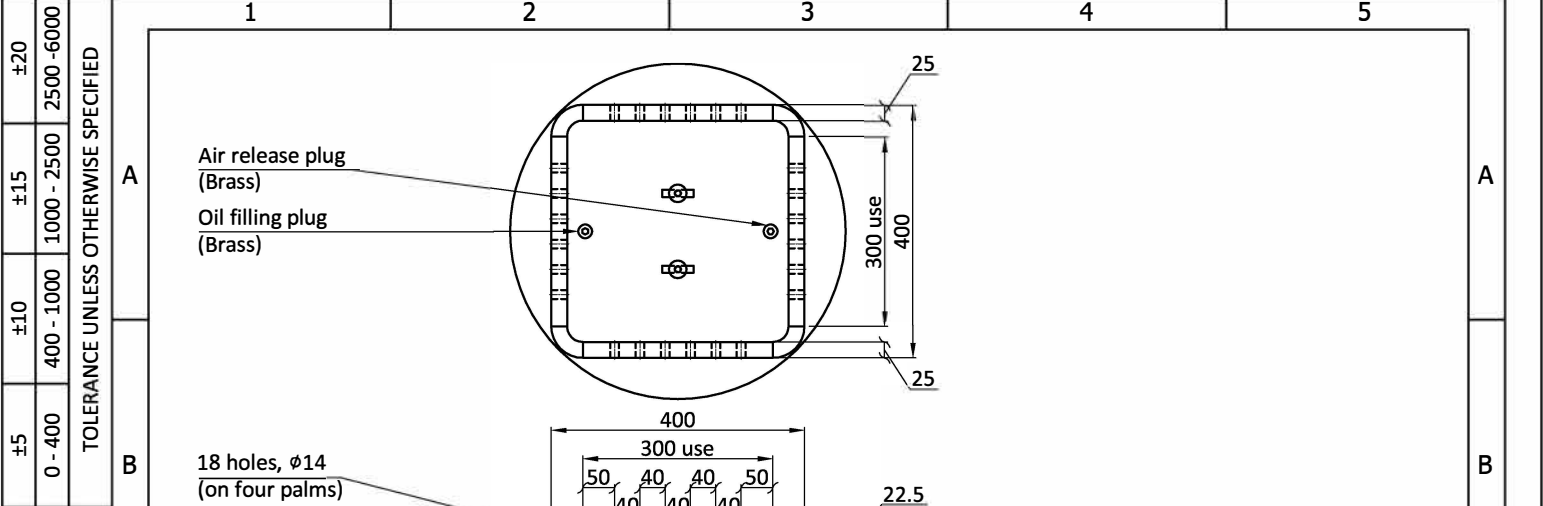


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DRN		NP			<b>36 kV 25000 A 0 CT TRANSFORMER BUSHING</b>
CHK		DP			
APPD		GN			
DATE		15-04-2023			
15-04-2023	-	Original issue.	GN		DRG. NO: CODE: REV. -
Date.	Rev.	Comments.	App.		
Revision History					
Note: Tolerance for Porcelain Insulator shall be as per IEC 62155.				SCALE: 1 : 1	PAGE 1 / 2

All dimensions are in mm unless otherwise specified.

## TECHNICAL DATA SHEET

GTP No.	
Product code	
Drawing no.	Rev -

### Design characteristics of Bushing

Type	Transformer-Outdoor
Application	Oil-Air
Insulation	Oil-impregnated paper (Oil Communicating)
Model	HCA.3625/0
Standard	IEC 60137:2017

### Electrical data

Highest system voltage	36 kV
Phase to earth voltage	21 kV
Rated current	25000 A
Rated frequency	50/60 Hz
1 minute AC withstand test (Dry)	77 kV
1 minute AC withstand test (Wet)	70 kV
Basic Insulation level	170 kVp
Rated short-circuit current	100 kA
Rated short-circuit current duration	2 sec
Cantilever test load	3150 N, 60 second
CT space	0 mm
Minimum Creepage distance	1116 mm
Mounting angle	52 deg.
Maximum Altitude of operation	1000 mt.
Ambient temperature	-60 to +40 deg C
Approx weight (+/-15%)	315 kg
Approx oil quantity	7 ltr

### Procedure of Mounting of oil communicating bushing at site:

Step:1 Lift bushing vertically above oil collection vessel, remove oil communicating plug and drain oil from bushing up to oil communication hole in oil collection vessel. Fix oil communication plug in tapped hole on flange for subsequent use. Oil removed from bushing can be scrapped as per local regulations of the region.

CAUTION: While opening the oil communication plug for removing oil from bushing, relative humidity in ambient air must not be more than 65% to avoid moisture ingress in OIP active part of bushing.

Step:2 Install bushing on transformer and connect the bushing terminals with Transformer winding.

ATTENTION: Vacuum inside transformer must be started as early as possible to avoid exposure of OIP active part of Bushing to ambient air.

Step:3 Fill transformer oil inside the transformer under vacuum and at slower rate in bushing region. Vacuum duration and level should be as per transformer OEM guideline.

Step:4 When oil level in transformer reaches bushing mounting flange, unscrew Air release plug and release air from Bushing through Air release hole. As soon as Oil is seen on Air release hole, screw-on the Air release plug & check for oil leakage if any.

ATTENTION: This procedure of air release is recommended to be repeated atleast once again after waiting time of 24 hours to prevent air bubbles trapping inside the bushing which can cause flashovers or partial discharges.