	GLOBAL STANDARD	Page 1 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

ANNEX C - TECHNICAL FORM

This form is used for evaluating the offer in the tender process and also for the technical data validation during the homologation, certification and approval procedure.

Flag here the use of this form:

☒ Offer in the Tender

☐ Tech Data validation

IMPORTANT

This document has to be used for checking the compliance of the transformer during the tender process.



Deviations are in principle not acceptable.

Possible deviations have to be clearly reported in the following form for specific deviations.



The acceptance of this document for the next tender stage does not mean the acceptance of any deviation to the technical specification if such deviations are not clearly reported in the form for specific deviations.

RATINGS Part 1 of 5

RATINGS	Data Declared (if relevant, otherwise indicate "--")	Notes (add remarks, if necessary)
GS TYPE CODE	to indicate	
Country	to indicate	
Country Code	to indicate	
Transformer (TR) or auto-transformer (ATR)	to indicate	
N. of phases	to indicate	
Rated frequency fr (Hz)	to indicate	
Number of windings	to indicate	
Connection Symbol	to indicate	
Rated Power S_r (MVA) - for each cooling system and more MV	to indicate	
Cooling System	to indicate	
Installation	indoor/outdoor	
Service conditions 60076-1	normal/special	
Ref. Temp. 60076-2; Table 1,2 (K)	oil/winding/hot-spot	
Rated HV U_r (kV)	to indicate	
HV insul. levels - Um / SI / LI / LIC / AC (kV)	to indicate	



 	GLOBAL STANDARD	Page 2 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

HV neutral (inside/outside)	to indicate	
HV neutral (Insulation levels) (kV)	to indicate	
HV Volt. Reg. Type (OLTC-DETC-NO)	to indicate	
HV Volt. Reg. (n. of steps, value %)	to indicate	
MV Rated Voltage U_r (kV)	to indicate	
MV insulation levels (U_m -LI-AC)	to indicate	
MV Neutral (inside-outside)	to indicate	
MV Neutral insulation levels	to indicate	
MV Volt. Reg. Type (DETC-intank bars-NO)	to indicate	
MV Voltage regulation (n°step, value%)	to indicate	
MV2 Rated Voltage U_r (kV)	to indicate	
MV2 insulation (U_m -LI-AC)	to indicate	
MV2 Neutral (inside-outside)	to indicate	
MV2 Neutral (insulation levels)	to indicate	
MV2 Volt. reg type (DETC-intank bars-NO)	to indicate	
MV2 Volt reg (n. of steps, value%)	to indicate	
Tertiary for compensation (description)	to indicate	
Z_{sc} HV-MV (% rif. S_r)	to indicate	
Z_{sc} HV-MV2 (% rif. S_r)	to indicate	
Z_{sc} MV-MV2 (% rif. S_r)	to indicate	
Load Loss HV-MV (kW)	to indicate	
No Load Loss HV-MV (kW)	to indicate	
Load Loss HV-MV2 (kW)	to indicate	
No Load Loss HV-MV2 (kW)	to indicate	
Sound level (dB) (to specify if values ref. to power or pressure as requested)	to indicate	
Overall dimensions (cm)	to indicate	
Dimensional drawings to be attached	Indicate the ref. Number	
Transport drawings to be attached	Indicate the ref. Number	
Total Weights (Kg)	to indicate	
Other parameters to be specified		
to indicate	to indicate	
to indicate		
to indicate		

 	GLOBAL STANDARD	Page 3 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014


MAIN COMPONENTS - Part 2 of 5

MAIN COMPONENTS	Data Declared (if relevant, otherwise indicate "--")	Notes (add remarks, if necessary)
HV BUSHINGS	Phase - Neutral	
Supplier	to indicate	
Type	to indicate	
U_r (kV)	to indicate	
I_r (A)	to indicate	
Creepage distance (mm)	to indicate	
hollow insulator type	polymeric, ceramic	
$T_g \delta$	to indicate	
Capacitive plug	yes/no	
MV BUSHINGS	Phase - Neutral	
Supplier	to indicate	
Type	to indicate	
U_r (kV)	to indicate	
I_r (A)	to indicate	
Creepage distance (mm)	to indicate	
hollow insulator Type	polymeric, ceramic	
$T_g \delta$	to indicate	
TAP CHANGER		
ON LOAD / DE ENERGIZED	to indicate	
Supplier	to indicate	
Model and type	to indicate	
Number of steps	to indicate	
Rated step voltage (V)	to indicate	
Rated operating current (A)	to indicate	
Commutation resistance (W)	to indicate	
Rated maximum current - I_{um} (A)	to indicate	
Highest voltage for equipment - U_m (kV)	to indicate	
VOLTAGE LEVEL CHANGE		
DOUBLE VOLTAGE	yes/no	
Y-D	yes/no	

 	GLOBAL STANDARD	Page 4 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014


MAIN ACCESSORIES - Part 3 of 5

MAIN ACCESSORIES	Data Declared (if relevant, otherwise indicate "--")	Notes (add remarks, if necessary)
RADIATORS		
Supplier	to indicate	
Type	to indicate	
Numbers of radiators	to indicate	
Total dispersive surface (m ² all radiators)	to indicate	
Radiators thickness (mm)	to indicate	
Painting Cycle	to indicate	
Standard reference	to indicate	
BUTTERFLY VALVES		
Supplier	to indicate	
Type	to indicate	
Standard reference	to indicate	
FANS		
Supplier	to indicate	
Type	to indicate	
Number	to indicate	
Standard reference	to indicate	
OIL		
Supplier	to indicate	
Type	to indicate	
Standard reference	to indicate	
Inhibitors or antioxidant additives	yes/no	
Same transformer oil used for OLTC	yes/no	
Buchholz	to indicate (Supplier/type)	
Oil Level Indicator	to indicate (Supplier/type/number)	
Silica gel or Dehydrating breather	to indicate (Supplier/type/number)	
Overpressure valve	to indicate (Supplier/type/number)	



	GLOBAL STANDARD	Page 5 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

DESIGN DATA - Part 4 of 5


DESIGN DATA	Data Declared (if relevant, otherwise indicate "--")	Notes (add remarks, if necessary)
CORE		
Thin core sheets type (e.g. 30M0H)	to indicate	
Induction (T) at rated voltage	to indicate	
Core Supplier	to indicate	
Core joint type (e.g. Step-Lap/6 layers/2 sheets per layer)	to indicate	
Oil channels (number and dimensions, if any)	to indicate	
Minimum insulation thickness for both faces	to indicate	
Maximum permissible rough edge of sheet	to indicate	
Core weight	to indicate	
Magnetic losses of core sheets 1 (Epstein Test) (W/kg)	to indicate	
Type of insulation of the core sheets	to indicate	
FRAME		
Type (brief descriptions of the topology)	to indicate	
Material of the frame	to indicate	
Contact typology (e.g. turn opened/closed)	to indicate	
Frame vs. core insulating material	to indicate	
Number of press-limb elements per phase	to indicate	
Windings tightening torque type (e.g. rigid/elastic)	to indicate	
Weight	to indicate	
Final Windings tightening torque (kN)	to indicate	
WINDINGS	Primary - Secondary	
Windings type (e.g. interleaved, helical etc)	to indicate	
Type of conductors (e.g. strand, CTC etc)	to indicate	
Weight of the copper (kg)	to indicate	
Current density at S_r and U_r (A/mm ²)	to indicate	
Single conductor	to indicate	
thickness (mm)	to indicate	
height (mm)	to indicate	
insulation (mm)	to indicate	
Hardening degree σ 0,2 (N/mm ²)	to indicate	
Axial cooling channels thickness (mm)	to indicate	
Radial cooling channels thickness (mm)	to indicate	
Radial dimension of the winding (mm)	to indicate	
Axial dimension of the winding (mm)	to indicate	
Conductors Supplier	to indicate	

	GLOBAL STANDARD	Page 6 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

Other windings	2 nd Secondary - Tertiary	
Windings type (e.g. interleaved, helical etc)	to indicate	
Type of conductors (e.g. strand, CTC etc)	to indicate	
Weight of the copper (kg)	to indicate	
Current density at S _r and Un (A/mm ²)	to indicate	
Single conductor	to indicate	
Thickness (mm)	to indicate	
Height (mm)	to indicate	
Insulation (mm)	to indicate	
Hardening degree σ 0,2 (N/mm ²)	to indicate	
Axial cooling channels thickness (mm)	to indicate	
Radial cooling channels thickness (mm)	to indicate	
Radial dimension of the winding (mm)	to indicate	
Axial dimension of the winding (mm)	to indicate	
Conductors Supplier	to indicate	
MAGNETIC SHIELDS (if any)		
Material type	to indicate	
Blocks thickness	to indicate	
Number per phase	to indicate	
Possible solution to prevent the tank heating due to zero-sequence current (description)	to indicate	
INSULATING STRUCTURES/MATERIALS		
Insulating paper type	to indicate	
Insulating paper weight (kg)	to indicate	
Insulating paper Supplier	to indicate	
Type of insulating of mounted winding (es. cylinders stanches)	to indicate	
Supplier of insulating of mounted windings	to indicate	
Type of extremities supports (insulating rings)	to indicate	
Ends of windings supports Suppliers	to indicate	
Type of supports for the connections	to indicate	
Supplier of the supports for the connections	to indicate	
TANK		
Type of iron sheet used	to indicate	
Tank weight (kg)	to indicate	
Tank Supplier	to indicate	
ACTIVE PART TREATMENT		
Type (product code)	to indicate	
Scheduled duration	to indicate	
Final check - extracted water quantity (l)	to indicate	

 	GLOBAL STANDARD	Page 7 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

PAINTING CYCLE		
Layers (e.g. bottom + intermediate + final)	to indicate	
Thickness (single layers and total)	to indicate	
Supplier	to indicate	
Type (product code)	to indicate	
WEIGHTS (kg)		
Copper	to indicate	
Core (magnetic steel)	to indicate	
Other Iron parts (frame, tank etc)	to indicate	
Paper insulating material	to indicate	
Oil (as in operation)	to indicate	
Active part	to indicate	
Total	to indicate	
Total in transport configuration	to indicate	
Other relevant data		
to indicate	to indicate	

	GLOBAL STANDARD	Page 8 of 8
	POWER TRANSFORMERS	GST002 Rev. 01 15/01/2014

FORM FOR SPECIFIC DEVIATIONS – Part 5 of 5

Each specific deviation shall be reported and explained here below (to be indicated with progressive number)

☒ NO DEVIATIONS

(to flag in case of no deviations from the technical specification - Global Standard)

DEVIATION 1

To indicate possible Deviation

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DEVIATION 2

To indicate possible Deviation

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DEVIATION

To indicate possible Deviation

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With reference to all the 5 parts of this form, add here:

Date

Sign
