Liquid immersed distribution transformer

Specification template to IEC 60076-1

Fill in what the design has fixed and leave the rest empty. Send the sheet with your request: every open point comes back in one numbered message before any manufacturer sees it.

01 Project

Project or reference		
Site country and postcode		
Quantity units		
Required on site		Date, or week and year
Delivery terms	☐ DAP site ☐ FCA works ☐ Other	Incoterms 2020
New or replacement	☐ New ☐ Replacement	For a replacement, attach a photograph of the old nameplate

02 Rating and voltages

Rated power kVA		
Rated voltage, high voltage side kV		Network voltage, for example 10, 11, 20 or 33 kV
Rated voltage, low voltage side V		At no load, for example 400, 415 or 433 V
Highest voltage for equipment Um kV		For example 12, 24 or 36 kV
Frequency	☐ 50 Hz ☐ 60 Hz	
Vector group		For example Dyn11. Match the existing unit for parallel operation
Short circuit impedance uk %		Parallel operation or a fault level limit fixes it
Tapping range		For example ±2 × 2.5 %
Tap changer	☐ Off circuit ☐ On load	
Insulation level, high voltage side kV		Impulse / applied voltage, for example 125 / 50 kV at Um 24 kV

03 Losses

Loss requirement	☐ EU Tier 2 maximum ☐ Lower values below ☐ Capitalised	Regulation (EU) 548/2014 as amended by (EU) 2019/1783
Maximum load loss Pk W		At reference temperature
Maximum no load loss P0 W		
Capitalisation factors A and B per kW		Only if losses are priced in the comparison
Maximum sound power level dB(A)		

04 Construction and installation

Insulating liquid	☐ Mineral oil ☐ Natural ester ☐ Synthetic ester	Indoors, state the fire and containment arrangements
Tank	☐ Hermetically sealed ☐ Conservator	
Cooling	☐ ONAN ☐ KNAN ☐ Other	
Installation	☐ Outdoor ☐ Indoor ☐ In a compact substation	
Site altitude m		Above sea level, if over 1000 m
Maximum ambient temperature °C		If over 40 °C
Corrosivity of the site		For the paint system, for example C3, C4 or C5
Size and weight limits		Door, room, crane or access road

05 Connections and fittings

High voltage connection	☐ Plug in bushings ☐ Porcelain bushings ☐ Cable box
Low voltage connection	☐ Bushings with flags ☐ Busbar trunking flange ☐ Cable box
Protection device	☐ Gas, pressure, temperature and level relay ☐ Thermometer with contacts
Rollers	☐ Yes ☐ No
Rating plate language	

06 Tests and documents

Type test reports required	☐ Temperature rise ☐ Lightning impulse ☐ Sound level ☐ Short circuit withstand	Routine tests to IEC 60076-1 are always included
Witnessed factory acceptance test	☐ Yes ☐ No	
Documents with the offer	☐ Outline drawing ☐ Guaranteed technical data ☐ Type test reports ☐ Declaration of conformity	
Notes and attachments Single line diagram, site drawings, the old nameplate for a replacement		

References: IEC 60076-1:2011. Regulation (EU) No 548/2014 as amended by Regulation (EU) 2019/1783. Examples show the form of an answer; the values for your project come from its design. Free to use and copy.

Send it with your request

- Requests stored in the EU
- Manufacturers get the specification, not your details
- No account, no obligation

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