

Technical Specification for Isolation Transformer.

Reference standards	In general, IS 11171 / IEC 60076
No of phases; As per customer requirement.	• Single Phase • Three phase
Operating Frequency As per customer requirement.	• 60Hz
Type of Transformer	Double wound transformer, having two different windings one for primary and the other for secondary & also single winding auto transformer.
Duty cycle	Continuous
K Factor; As per customer requirement.	• Non K rated, • K4, • K13, • K20;
Type of lamination; As per customer requirements and targeted power losses.	• CRGO • CRNO
Winding As per customer requirements and targeted power losses.	• Copper wound • Aluminium wound.
Input Voltage	• As per customer requirement. • 480V / 415V / 400V line to line for three phase transformers as standard. • Can be customized to any voltage ratio below 1000V as per customer requirement.
Output Voltage	• As per customer requirement.
Tapping choices; As per customer requirement.	• No tapping; • $\pm 5\%$ tapping in steps of 2.5%; 5 positions. • $\pm 7.5\%$ tapping in steps of 2.5%; 7 positions.

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Tap variation mechanism; As per customer requirement.	• By means of off circuit tapping links. • By means of Off Circuit Tap Changer (OCTC) switch. • By means of On Load Tap Changer (OLTC) switch.
Connection for three phase transformer & Vector groups offered; As per customer requirement.	• Transformer windings for three phase transformers will be connected in delta or star configuration as per customer requirement. • Customers can opt for vector groups Dyn11, Dd0, YNyn0 or zig-zag connected as per customer requirement.
Cooling	• AN (Air cooled), • AF (Forced Air cooled) • ONAN (Oil cooled)
Ambient Temperature	Suitable for operation from 15°C to 60°C
Insulation Class & temp. rise As per customer requirement.	• Class H insulation with temp. rise of 115°C above ambient temp. • Class F insulation with temp. rise of 90°C above ambient temp.
Insulation Class	• AC3 (3kV in between winding to winding and windings to earth) • AC5 (5kV in between winding to winding and windings to earth)
Efficiency (subject to IS/IEC tolerance)	> 95to 99% based on capacity and choice of lamination.
Regulation	Between 2.5% to 5% based on transformer capacity.
Impedance (subject to IS/IEC tolerance)	4%
Audible noise at 1 mtr	< 80dB for transformers with enclosure
Enclosure	From IP00 (bare transformer) to IP 65 (with enclosure) as required.
CMNR	> 100 dB
Enclosure finishing; As per customer requirement. (Choice of colour shade is subject to availability.)	• Powder coated. • Enamelled painted. • Epoxy painted.
Metering (optional, if opted by customer)	• Voltmeter, • Ammeter with suitable Current Transformers. • VAF+PF meter with suitable Current Transformers.

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	• Multifunction meters with suitable Current Transformers. All meters provided will be class 1 accuracy and Lauritz Knudsen make.
Indications (optional, if opted by customer)	R, Y, B phase indicator lamps.
Protections (optional, if opted by customer)	• Suitable switchgear (MCCB / MCB) for overload & short circuit protection. All switchgear provided will be Lauritz Knudsen make. • Winding Temperature Indicator (WTI) with alarm & trip contacts. • Thermocouple for overheat protection. • Soft starters for transformer used for motor starting.
Additional accessories (optional, if opted by customer)	• Space heaters with thermostats. • Surge arrestors. • Tap position indicators for transformers equipped with OLTCs. • Enclosure door limit switches for operator safety. • Enclosure internal lighting for transformers above 250kVA. • On load changeover / Bypass switch. • Mounting stands.

		
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