

NS

Ultra-isolation transformers



NS: Simple concepts with effective results

Salicru's **NS** series ultra-isolation transformers provide a high degree of galvanic isolation thanks to the incorporation of three screens as separation for the windings.

The origin of electrical noise in power lines can be very diverse: machinery, industrial equipment, load interruption, storms and lightning, deficient or no earth connection, switching transients, proximity of electric motors, etc., and they can be the cause of serious problems in electrical and electronic facilities, resulting in losses due to the malfunctions themselves or the untimely cessation of activity.

NS series models are the best solution against this kind of disturbance, offering a wide range of solutions, from 300 VA to 9,000 VA, always in single-phase input and output connection.

This protection is against both noise in common mode –due to the transformer's own design– and noise in normal mode –due to the incorporation of the triple electrostatic screen– which enables excellent filtering of high frequency noise.

Performances

- Output exempt from noises.
- Triple screen shielding.
- Low coupling capacity.
- High isolation (1000 MΩ).
- High efficiency.
- Silent.
- Dry-type transformer.
- IP-20 enclosure.
- ANAN cooling.
- Coils protected against impacts and dirt.



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Range

MODEL	CODE	POWER (VA)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
NS-3	649AY000780	300	190 × 155 × 155	9
NS-6	649BY000780	600	210 × 155 × 155	11
NS-10	649CY000780	1000	235 × 205 × 155	15
NS-20	649EG000780	2000	290 × 205 × 195	26
NS-30	649EY000780	3000	325 × 205 × 195	33
NS-45	649FW000780	4500	365 × 205 × 195	41
NS-60	649GU000780	6000	385 × 205 × 195	45
NS-90	649IA000780	9000	465 × 305 × 285	100

Technical specifications

MODEL		NS
INPUT	Single phase voltage	230
	Frequency range	47 ÷ 53 Hz
OUTPUT	Single phase rated voltage	230 V
	Magnetic field	<100 mG
	Voltage drop (100% load)	<5% ⁽¹⁾
	Performance	>93%
	Short-circuit voltage	>6%
	Electromagnetic noise @ 50 cm	0.1 Gauss
	Attenuation on common mode	140 dB
MANUFACTURE	Insulators	Class 155 (F)
	Windings	Class 180 (H)
	Impregnation	Not varnished
	Ventilation	ANAN
GENERAL	Operating temperature	-25 ÷ +40°C (Climate class C2)
	Storage temperature	-25°C ÷ +75°C
	Relative humidity	Up to 93%, non-condensing (EO environmental class, normal environment)
	Maxium operating altitude	2000 m.s.n.m.
	Version	Box
	Dielectric strength	3600Vac / 1 min
	Dielectric strength (Input - Output)	3600 Vac / 1 min
	Degree of protection	IP20
	Heat loss (100% load)	<6%
	Vacuum heat loss	<2.5%
	Isolation	>2000 MΩhm
	DC Isolation	1000 MΩ
	Permanent permissible overvoltage	110% of nominal
	Shielding	Triple
STANDARDS	Safety	EN-61558
	Corporate cerification	ISO 9001, ISO 14001, ISO 45001

(1) According to model

Information subject to change without notice.



@salicru_en



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