

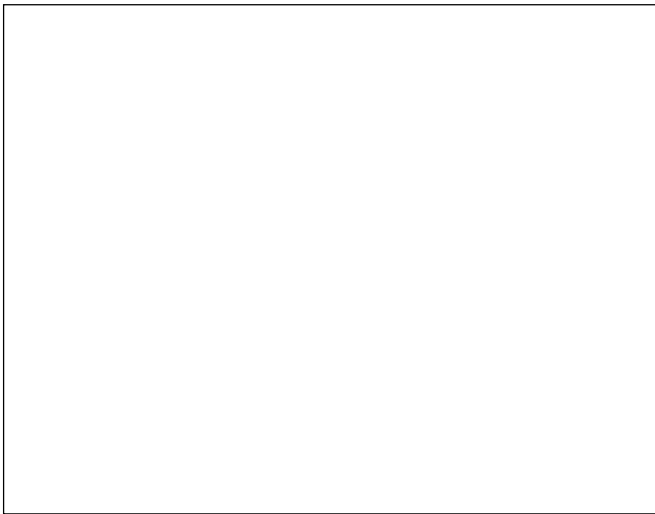
Three-phase Isolating Transformers

according to DIN VDE 0551/part 1 and DIN VDE 0107

DS0107



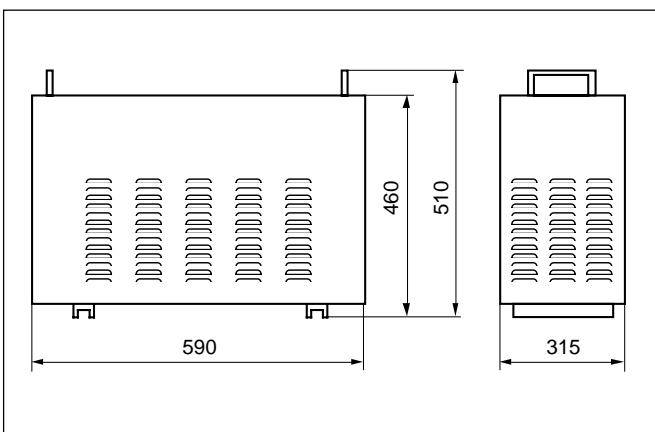
Three-phase isolating transformers for power supply
in medically used rooms



- ⇒ according to DIN VDE 0107 and DIN VDE 0551/Teil 1
- ⇒ Inrush current $\leq 8 \times I_N$
- ⇒ Short circuit voltage $U_K \leq 3\%$
- ⇒ No-load current $i_o \leq 3\%$
- ⇒ built-in temperature sensors
- ⇒ isolated fixing angles

Casing

Special steel casings in accordance with protection class IP 23 are available (Art. No. 924 117).



General

The isolating transformer DS0107 has a reinforced insulation in accordance with the requirements of DIN VDE 0551/part 1 and the requirements of DIN VDE 0107 for rooms in application group 2 (AG 1).

The windings are galvanically isolated.

The static shielding between primary and secondary is connected to an isolated terminal.

The isolating transformer is equipped with a centre tap for the connection of an insulation monitoring device.

In order to ensure an isolated installation in accordance with the requirements of VDE 0107 (section 3.3.3.8), the fixing angles are isolated from the transformer core.

The maximal ambient temperature is 40 °C.

The transformer is delivered in vertical position.

Corrosion protection is guaranteed by a resin impregnation.

Frequency/Power

The isolating transformer is designed for nominal frequencies of 50 ... 60 Hz. The data, indicated in the table, apply to an ambient temperature of max. 40°C and a nominal frequency of 50 Hz.

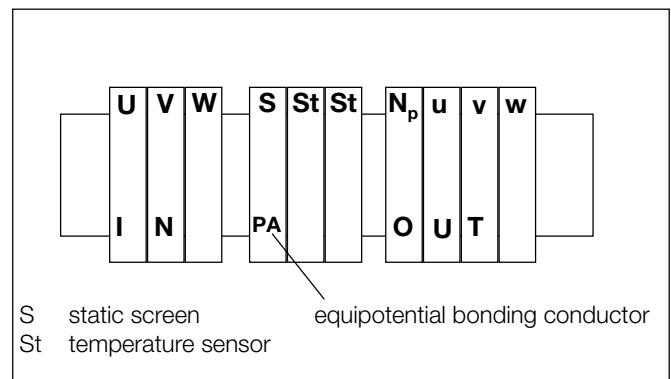
Temperature and isolation

The isolating transformer has to be provided with sufficient air cooling. If the ambient temperature exceeds 40°C, the nominal power decreases. A PTC resistor is placed on each isolating transformer winding and the leads are connected to the terminals.

According to insulation class E, a maximum temperature of 75°C in the windings is permitted.

The isolating transformer is designed for use in dry locations.

Terminals/connections



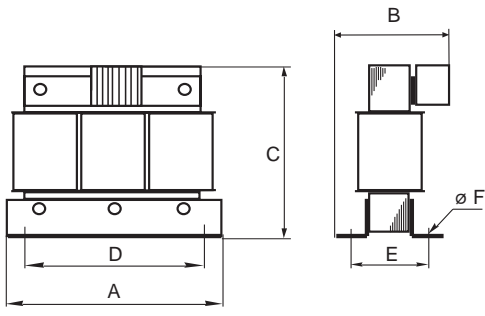
Technical data DS0107

Primary voltage	3AC 400 V
Secondary voltage	3N AC 133 / 230 V
Nominal frequency	50...60 Hz
Operation class	permanent operation
Insulation class	E
Max. ambient temperature	40°C
Protection class	IP 00
Connections	separated terminal blocks

Recommended short-circuit protection according to DIN VDE 0551

Nominal power kVA	Nominal current A	Fuse acc. to DIN VDE 0636
3.15	7.9	gL 16 A
4	10	gL 25 A
5	12.6	gL 35 A
6.3	15.9	gL 35 A
8	20.1	gL 50 A

Dimensions, weight (kg) and Ordering details



Optional other terminal arrangement.

Nominal power kVA	Dimensions (mm)						Copper weight	Total weight kg	Iron loss (W)	Copper loss (W)	Inrush current	No-load current	Short-circuit voltage	Temperature rise (°C)		Art.-Nr.
	A	B	C	D	E	F								No-load	Nominal load	
3.15	360	165	375	310	125	11	22	56	48	90				32	59	924 106
4	360	180	375	310	140	11	25	60	66	105				33	62	924 121
5	360	195	375	310	155	11	26	75	72	156	$< 8 \times I_N$	$< 3\%$	$< 3\%$	32	64	924 112
6.3	420	195	430	370	155	11	37	88	77	175				34	73	924 107
8	420	210	430	370	170	11	40	102	90	240				31	69	924 628

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