

Single-phase isolation transformer 230 V / 230 V

Galvanic isolation, 1:1 ratio · 63 VA to 20 kVA · IP00, IP23 or IP54 · made in France

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This 230 V to 230 V isolation transformer galvanically separates your equipment from the mains: it takes in 230 V and delivers 230 V (1:1 ratio), but there is no electrical connection between the primary and the secondary. It is also known as a 230 V isolating transformer. It is used to isolate a boiler, audio equipment, a repair bench or a machine from the supply that feeds it. From 63 VA to 20 kVA, open frame (IP00), with a ventilated cover (IP23) or in a sealed housing (IP54): it is wound and tested in our workshop in Gailhan, in the Gard (southern France).

YOUR SUPPLY
230 V ~
 single-phase, formerly
 220 V

TRANSFORMER
1:1
 isolates without changing
 the voltage

YOUR EQUIPMENT
230 V ~
 galvanically separated
 from the mains

Key points

- **Galvanic isolation** — The secondary has no electrical connection with the supply feeding the primary.
- **1:1 ratio** — 230 V in, 230 V out: the transformer isolates without changing the voltage.
- **Earth-referenced neutral if needed** — A secondary terminal connected to earth becomes a neutral, with no residual voltage.
- **Screw terminals up to 55 A, lugs above** — Screw terminals up to 10 kVA on this model, lugs above that. Terminal marking: 1 and 2 on the primary, 3 and 4 on the secondary, earth terminal on the primary side.
- **Electrostatic shield as standard** — Connected to earth, it limits the transfer of disturbances between primary and secondary.
- **Made and tested in Gailhan** — Wound, wired and 100 % tested in our workshop in the Gard, southern France, before dispatch.

General characteristics

Frequency	50 / 60 Hz
Insulation class	H (180 °C)
Cooling	dry-type, natural air cooling (AN)
Ambient temperature	40 °C max.
Standard	EN 61558-2-4
Electrostatic shield	standard, earthed
Thermal protection	on request
Connection	Screw terminals up to 55 A (10 kVA on this model), lugs above

Enclosures

- IP00 · open frame, for cabinet
- IP23 · ventilated enclosure
- IP54 · sealed enclosure

Ratings and references

REFERENCE	RATING	CURRENT primary / secondary	aM primary / secondary	LOSSES NO- LOAD / LOAD	EFFICIENCY	WEIGHT IP00 / 23 / 54	DIMENSIONS IP00 mm	DIMENSIONS IP54 mm
TMN230230-63-xx	63 VA	0.27 / 0.27 A	aM 2 / 2 A	2 / 3.4 W	92.1 %	1.5 / 3 / 2 kg	75 × 68 × 73	100 × 64 × 72
TMN230230-100-xx	100 VA	0.43 / 0.43 A	aM 2 / 2 A	3 / 5.2 W	92 %	2 / 3.5 / 2.6 kg	84 × 82 × 78	130 × 80 × 98
TMN230230-160-xx	160 VA	0.70 / 0.70 A	aM 2 / 2 A	4 / 8.5 W	91.9 %	2.5 / 4 / 3.2 kg	96 × 89 × 87	130 × 80 × 98
TMN230230-200-xx	200 VA	0.87 / 0.87 A	aM 2 / 2 A	5 / 8.9 W	93 %	2.6 / 4.1 / 3.5 kg	118 × 97 × 97	130 × 80 × 98
TMN230230-250-xx	250 VA	1.09 / 1.09 A	aM 2 / 2 A	5 / 12 W	93.2 %	3.9 / 5.4 / 4.5 kg	108 × 95 × 100	165 × 93 × 94
TMN230230-300-xx	300 VA	1.30 / 1.30 A	aM 2 / 2 A	6 / 12.2 W	94 %	4 / 5.5 / 5.5 kg	108 × 103 × 94	165 × 93 × 94
TMN230230-400-xx	400 VA	1.74 / 1.74 A	aM 2 / 2 A	8 / 15 W	94.2 %	6 / 9 / 7.5 kg	126 × 122 × 108	176 × 103 × 130
TMN230230-500-xx	500 VA	2.17 / 2.17 A	aM 4 / 4 A	9 / 15 W	95.2 %	6.8 / 9.8 / 8.2 kg	126 × 110 × 115	176 × 103 × 130
TMN230230-630-xx	630 VA	2.74 / 2.74 A	aM 4 / 4 A	12 / 22.9 W	94.4 %	9 / 12 / 11 kg	150 × 124 × 126	176 × 103 × 130
TMN230230-750-xx	750 VA	3.26 / 3.26 A	aM 4 / 4 A	15 / 24.1 W	94.8 %	10.3 / 13.3 / 15.3 kg	150 × 120 × 135	300 × 200 × 250
TMN230230-1000-xx	1 kVA	4.35 / 4.35 A	aM 6 / 6 A	18 / 28.1 W	95.4 %	14 / 17 / 19 kg	150 × 144 × 127	300 × 200 × 250
TMN230230-1600-xx	1,6 kVA	6.96 / 6.96 A	aM 8 / 8 A	19 / 47.2 W	95.9 %	16.4 / 20.4 / 21.4 kg	180 × 140 × 160	300 × 200 × 250
TMN230230-2000-xx	2 kVA	8.70 / 8.70 A	aM 10 / 10 A	19 / 59.4 W	96.1 %	20 / 24 / 25 kg	180 × 160 × 160	300 × 200 × 250
TMN230230-2500-xx	2,5 kVA	10.87 / 10.87 A	aM 12 / 12 A	24 / 67.7 W	96.3 %	24 / 28 / 29 kg	180 × 180 × 150	300 × 200 × 250
TMN230230-3000-xx	3 kVA	13.04 / 13.04 A	aM 16 / 16 A	29 / 126.8 W	94.8 %	29 / 33 / 34 kg	180 × 200 × 160	300 × 200 × 250
TMN230230-4000-xx	4 kVA	17.39 / 17.39 A	aM 20 / 20 A	42 / 102.1 W	96.4 %	33 / 37 / 43 kg	240 × 190 × 220	595 × 250 × 375
TMN230230-5000-xx	5 kVA	21.74 / 21.74 A	aM 25 / 25 A	45 / 118.3 W	96.7 %	36 / 40 / 46 kg	240 × 200 × 220	595 × 250 × 375
TMN230230-6300-xx	6,3 kVA	27.39 / 27.39 A	aM 32 / 32 A	56 / 127.8 W	97.1 %	40 / 44 / 50 kg	240 × 210 × 220	595 × 250 × 375
TMN230230-7500-xx	7,5 kVA	32.61 / 32.61 A	aM 40 / 40 A	56 / 162.1 W	97.1 %	46 / 48 / 56 kg	240 × 230 × 220	595 × 250 × 375
TMN230230-8000-xx	8 kVA	34.78 / 34.78 A	aM 40 / 40 A	on request	—	59 / 62 / 63 kg	240 × 230 × 220	595 × 250 × 395
TMN230230-10000-xx	10 kVA	43.48 / 43.48 A	aM 50 / 50 A	on request	—	75 / 83 / 85 kg	390 × 150 × 470	642 × 350 × 550
TMN230230-15000-xx	15 kVA	65.22 / 65.22 A	aM 80 / 80 A	on request	—	80 / 88 / 90 kg	390 × 160 × 470	642 × 350 × 550
TMN230230-20000-xx	20 kVA	86.96 / 86.96 A	aM 100 / 100 A	on request	—	95 / 103 / 105 kg	390 × 170 × 470	642 × 350 × 550

Protection and installation

- Primary.** The 230 V supply to terminals 1 and 2, earth to the primary earth terminal.
- Secondary.** The equipment to terminals 3 and 4 of the isolation transformer, with its protection; one terminal connected to earth if the application calls for an earth-referenced neutral.
- Safety.** Connection by a qualified person, with the power off. In IP00, the transformer is installed in a closed cabinet or enclosure.

A question or another voltage? contact@abltransfo.com · +33 4 66 80 14 33 · abltransfo.com