

Single-phase transformer 220 V / 110 V

Isolated 230 V → 115 V, for 110 to 120 V equipment · 63 VA to 20 kVA · IP00, IP23 or IP54 · made in France

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This 220V to 110V transformer steps the 230 V mains — formerly 220 V — down to 115 volts AC, isolated from the supply: the voltage of devices designed for 110 to 120 V, such as American or Canadian equipment, tools, amplifiers and imported machines. The primary and secondary are two separate windings. 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
230 → 115 V
isolates and steps down

YOUR EQUIPMENT
115 V ~
designed for 110 to 120 V

Key points

- **The “220 V / 110 V”** — It delivers 115 V on load: the voltage of equipment marked 110 V, 115 V or 120 V.
- **Two separate windings** — No electrical connection between the 230 V and the 115 V.
- **Screw terminals up to 55 A, lugs above** — Screw terminals up to 6.3 kVA on this model, lugs above that. Terminal marking: 1 and 2 on the primary (0 and 230 V), 3 and 4 on the secondary (0 and 115 V), earth on the primary side.
- **Open frame, covered or sealed** — IP00 for cabinet mounting, IP23 with a ventilated cover, IP54 in a moulded housing or a sealed enclosure.
- **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 (6.3 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
TMN220115-63-xx	63 VA	0.27 / 0.55 A	aM 2 / 2 A	2 / 3.4 W	92.1 %	1.5 / 3 / 2 kg	75 × 68 × 73	100 × 64 × 72
TMN220115-100-xx	100 VA	0.43 / 0.87 A	aM 2 / 2 A	3 / 5.3 W	92 %	2 / 3.5 / 2.6 kg	84 × 82 × 78	130 × 80 × 98
TMN220115-160-xx	160 VA	0.70 / 1.39 A	aM 2 / 2 A	4 / 7.5 W	92.5 %	2.5 / 4 / 3.2 kg	96 × 89 × 87	130 × 80 × 98
TMN220115-200-xx	200 VA	0.87 / 1.74 A	aM 2 / 2 A	5 / 9.4 W	93 %	2.6 / 4.1 / 3.5 kg	118 × 97 × 97	130 × 80 × 98
TMN220115-250-xx	250 VA	1.09 / 2.17 A	aM 2 / 4 A	6 / 9.9 W	93.6 %	3.9 / 5.4 / 4.5 kg	108 × 95 × 100	165 × 93 × 94
TMN220115-300-xx	300 VA	1.30 / 2.61 A	aM 2 / 4 A	6 / 14.3 W	93.3 %	4 / 5.5 / 5.5 kg	108 × 103 × 94	165 × 93 × 94
TMN220115-400-xx	400 VA	1.74 / 3.48 A	aM 2 / 4 A	8 / 15.3 W	94.2 %	6 / 9 / 7.5 kg	126 × 122 × 108	176 × 103 × 130
TMN220115-500-xx	500 VA	2.17 / 4.35 A	aM 4 / 6 A	9 / 15.2 W	95.2 %	6.8 / 9.8 / 8.2 kg	126 × 110 × 115	176 × 103 × 130
TMN220115-630-xx	630 VA	2.74 / 5.48 A	aM 4 / 6 A	11 / 24.1 W	94.4 %	9 / 12 / 11 kg	150 × 124 × 126	176 × 103 × 130
TMN220115-750-xx	750 VA	3.26 / 6.52 A	aM 4 / 8 A	15 / 24.1 W	94.8 %	10.3 / 13.3 / 15.3 kg	150 × 120 × 135	300 × 200 × 250
TMN220115-1000-xx	1 kVA	4.35 / 8.70 A	aM 6 / 10 A	18 / 28.7 W	95.3 %	14 / 17 / 19 kg	150 × 144 × 127	300 × 200 × 250
TMN220115-1600-xx	1,6 kVA	6.96 / 13.91 A	aM 8 / 16 A	19 / 47.7 W	95.8 %	16.4 / 20.4 / 21.4 kg	180 × 140 × 160	300 × 200 × 250
TMN220115-2000-xx	2 kVA	8.70 / 17.39 A	aM 10 / 20 A	19 / 58.5 W	96.1 %	20 / 24 / 25 kg	180 × 160 × 160	300 × 200 × 250
TMN220115-2500-xx	2,5 kVA	10.87 / 21.74 A	aM 12 / 25 A	24 / 64.7 W	96.4 %	24 / 28 / 29 kg	180 × 180 × 150	300 × 200 × 250
TMN220115-3000-xx	3 kVA	13.04 / 26.09 A	aM 16 / 32 A	29 / 127.6 W	94.8 %	29 / 33 / 34 kg	180 × 200 × 160	300 × 200 × 250
TMN220115-4000-xx	4 kVA	17.39 / 34.78 A	aM 20 / 40 A	42 / 100.2 W	96.5 %	33 / 37 / 43 kg	240 × 190 × 220	595 × 250 × 375
TMN220115-5000-xx	5 kVA	21.74 / 43.48 A	aM 25 / 50 A	45 / 117.7 W	96.7 %	36 / 40 / 46 kg	240 × 200 × 220	595 × 250 × 375
TMN220115-6300-xx	6,3 kVA	27.39 / 54.78 A	aM 32 / 63 A	56 / 128.2 W	97.1 %	40 / 44 / 50 kg	240 × 210 × 220	595 × 250 × 375
TMN220115-7500-xx	7,5 kVA	32.61 / 65.22 A	aM 40 / 80 A	56 / 156.4 W	97.2 %	46 / 48 / 56 kg	240 × 230 × 220	595 × 250 × 375
TMN220115-10000-xx	10 kVA	43.48 / 86.96 A	aM 50 / 100 A	on request	—	75 / 83 / 85 kg	390 × 150 × 470	642 × 350 × 550
TMN220115-15000-xx	15 kVA	65.22 / 130.43 A	aM 80 / 160 A	on request	—	80 / 88 / 90 kg	390 × 160 × 470	642 × 350 × 550
TMN220115-20000-xx	20 kVA	86.96 / 173.91 A	aM 100 / 200 A	on request	—	95 / 103 / 105 kg	390 × 170 × 470	642 × 350 × 550

Protection and installation

Primary. 230 V to terminals 1 (0 V) and 2 (230 V), earth to the primary earth terminal.

Secondary. 115 V equipment to terminals 3 (0 V) and 4 (115 V), with its own protection.

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