

Single-phase transformer 230 V / 24 V

24 V AC · 63 VA to 20 kVA · IP00, IP23 or IP54 · made in France

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This 230V to 24V transformer steps the 230 V single-phase mains — formerly 220 V — down to 24 volts AC, the extra-low voltage used for automation, control and lighting: gate motors, irrigation solenoid valves, relays and contactors, electric door strikes, halogen lamps. 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 → 24 V
isolates and steps down

YOUR EQUIPMENT
24 V ~
AC: gates, solenoid valves,
control, halogen lamps

Key points

- **24 V AC** — The voltage for automation, control circuits and low-voltage lighting.
- **Two separate windings** — No electrical connection between the 230 V and the 24 V.
- **Screw terminals up to 55 A, lugs above** — Screw terminals up to 1 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 24 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.
- **100 % tested** — Every transformer is tested before it leaves the workshop.
- **Made in Gailhan** — Wound, wired and inspected in our workshop in the Gard, southern France.

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 · EN 61558-2-6
Thermal protection	on request
Connection	Screw terminals up to 55 A (1 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
TMN23024-63-xx	63 VA	0.27 / 2.62 A	aM 2 / 4 A	2 / 3.4 W	92.1 %	1.5 / 3 / 2 kg	75 × 68 × 73	100 × 64 × 72
TMN23024-100-xx	100 VA	0.43 / 4.17 A	aM 2 / 6 A	3 / 5.3 W	92 %	2 / 3.5 / 2.6 kg	84 × 82 × 78	130 × 80 × 98
TMN23024-160-xx	160 VA	0.70 / 6.67 A	aM 2 / 8 A	4 / 8.6 W	91.9 %	2.5 / 4 / 3.2 kg	96 × 89 × 87	130 × 80 × 98
TMN23024-200-xx	200 VA	0.87 / 8.33 A	aM 2 / 10 A	5 / 9.1 W	93 %	2.6 / 4.1 / 3.5 kg	118 × 97 × 97	130 × 80 × 98
TMN23024-250-xx	250 VA	1.09 / 10.42 A	aM 2 / 12 A	6 / 10.2 W	93.6 %	3.9 / 5.4 / 4.5 kg	108 × 95 × 100	165 × 93 × 94
TMN23024-300-xx	300 VA	1.30 / 12.50 A	aM 2 / 16 A	6 / 14.9 W	93 %	4 / 5.5 / 5.5 kg	108 × 103 × 94	165 × 93 × 94
TMN23024-400-xx	400 VA	1.74 / 16.67 A	aM 2 / 20 A	8 / 15 W	94.2 %	6 / 9 / 7.5 kg	126 × 122 × 108	176 × 103 × 130
TMN23024-500-xx	500 VA	2.17 / 20.83 A	aM 4 / 25 A	10 / 18.4 W	94.4 %	6.8 / 9.8 / 8.2 kg	126 × 110 × 115	176 × 103 × 130
TMN23024-630-xx	630 VA	2.74 / 26.25 A	aM 4 / 32 A	11 / 24.5 W	94.3 %	9 / 12 / 11 kg	150 × 124 × 126	176 × 103 × 130
TMN23024-750-xx	750 VA	3.26 / 31.25 A	aM 4 / 40 A	15 / 23.6 W	94.8 %	10.3 / 13.3 / 15.3 kg	150 × 120 × 135	300 × 200 × 250
TMN23024-1000-xx	1 kVA	4.35 / 41.67 A	aM 6 / 50 A	18 / 29 W	95.3 %	14 / 17 / 19 kg	150 × 144 × 127	300 × 200 × 250
TMN23024-1600-xx	1,6 kVA	6.96 / 66.67 A	aM 8 / 80 A	19 / 46.9 W	95.9 %	16.4 / 20.4 / 21.4 kg	180 × 140 × 160	300 × 200 × 250
TMN23024-2000-xx	2 kVA	8.70 / 83.33 A	aM 10 / 100 A	19 / 60.3 W	96 %	20 / 24 / 25 kg	180 × 160 × 160	300 × 200 × 250
TMN23024-2500-xx	2,5 kVA	10.87 / 104.17 A	aM 12 / 125 A	24 / 67.6 W	96.3 %	24 / 28 / 29 kg	180 × 180 × 150	300 × 200 × 250
TMN23024-3000-xx	3 kVA	13.04 / 125 A	aM 16 / 160 A	37 / 81.3 W	96.1 %	29 / 33 / 34 kg	180 × 200 × 160	300 × 200 × 250
TMN23024-4000-xx	4 kVA	17.39 / 166.67 A	aM 20 / 200 A	42 / 103.8 W	96.3 %	33 / 37 / 43 kg	240 × 190 × 220	595 × 250 × 375
TMN23024-5000-xx	5 kVA	21.74 / 208.33 A	aM 25 / 250 A	45 / 121.3 W	96.7 %	36 / 40 / 46 kg	240 × 200 × 220	595 × 250 × 375
TMN23024-6300-xx	6,3 kVA	27.39 / 262.50 A	aM 32 / 315 A	56 / 130.3 W	97 %	40 / 44 / 50 kg	240 × 210 × 220	595 × 250 × 375
TMN23024-7500-xx	7,5 kVA	32.61 / 312.50 A	aM 40 / 400 A	56 / 160 W	97.1 %	46 / 48 / 56 kg	240 × 230 × 220	595 × 250 × 375
TMN23024-10000-xx	10 kVA	43.48 / 416.67 A	aM 50 / 500 A	on request	—	75 / 83 / 85 kg	390 × 150 × 470	642 × 350 × 550
TMN23024-15000-xx	15 kVA	65.22 / 625 A	aM 80 / 800 A	on request	—	80 / 88 / 90 kg	390 × 160 × 470	642 × 350 × 550
TMN23024-20000-xx	20 kVA	86.96 / 833.33 A	aM 100 / 1000 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.** 24 V equipment to terminals 3 (0 V) and 4 (24 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