

Three-phase transformer 208 V / 400 V + N

European machines on a 208 V supply · vector group Dyn11 · 1 to 100 kVA · made in France

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This three-phase transformer steps up a 208 V supply — the 208Y/120 V system found in commercial buildings and many workshops in North America — to 3 × 400 V + N: 400 V between phases and 230 V between each phase and neutral. It lets you install a European machine across the Atlantic without modifying it. Vector group Dyn11, electrostatic shield as standard, 1 to 100 kVA in IP00, IP23 or IP54, and 125 to 1,000 kVA on request: it is wound and tested in our workshop in Gailhan, in the Gard (southern France).

NORTH AMERICAN SUPPLY

3 × 208 V

208Y/120 V building
supply

TRANSFORMER

Dyn11

steps up and isolates

YOUR EUROPEAN MACHINE

3 × 400 V + N

400 V between phases ·
230 V phase to neutral

Key points

- **3 × 208 V → 3 × 400 V + N** — Your machine's European supply, recreated on a 208 V network.
- **A true neutral** — 230 V between each phase and neutral, as in Europe.
- **Vector group Dyn11** — Delta primary, star secondary, neutral brought out to terminal 2N.
- **Galvanic isolation** — Your machine is electrically separated from the supply feeding it.
- **50 or 60 Hz** — Designed for 60 Hz on confirmation, for North American supplies.
- **Made and tested in Gailhan** — Wound, wired and 100 % tested in our workshop in the Gard, southern France, before dispatch.

General characteristics

Vector group	Dyn11
Frequency	50 Hz
Electrostatic shield	standard, earthed
Insulation class	H (180 °C)
Cooling	dry-type, natural air cooling (AN)
Ambient temperature	40 °C max.
Altitude	3,000 m max.
Standard	EN 61558-2-4

Enclosures

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

Ratings and references

REFERENCE	RATING	CURRENT primary / secondary	TYPE D MCB	LOSSES NO- LOAD / LOAD	EFFICIENCY	WEIGHT IP00 / 23 / 54	DIMENSIONS IP23 mm	DIMENSIONS IP54 mm
TTI208400N-1000-xx	1 kVA	2.8 / 1.4 A	D 4 A	13 / 54 W	93.7 %	10 / 13 / 20 kg	340 × 310 × 350	595 × 410 × 375
TTI208400N-2000-xx	2 kVA	5.6 / 2.9 A	D 6 A	22 / 108 W	93.9 %	17 / 20 / 27 kg	340 × 310 × 350	595 × 410 × 375
TTI208400N-2500-xx	2,5 kVA	6.9 / 3.6 A	D 10 A	24 / 128 W	94.3 %	19 / 22 / 29 kg	340 × 310 × 350	595 × 410 × 375
TTI208400N-3150-xx	3,15 kVA	8.7 / 4.5 A	D 10 A	30 / 141 W	94.8 %	23 / 26 / 33 kg	340 × 310 × 350	595 × 410 × 375
TTI208400N-4000-xx	4 kVA	11.1 / 5.8 A	D 16 A	42 / 239 W	93.4 %	34 / 40 / 44 kg	460 × 320 × 500	642 × 505 × 550
TTI208400N-5000-xx	5 kVA	13.9 / 7.2 A	D 16 A	51 / 260 W	94.1 %	40 / 46 / 50 kg	460 × 320 × 500	642 × 505 × 550
TTI208400N-6300-xx	6,3 kVA	17.5 / 9.1 A	D 20 A	59 / 283 W	94.9 %	46 / 52 / 56 kg	460 × 320 × 500	642 × 505 × 550
TTI208400N-8000-xx	8 kVA	22.2 / 11.5 A	D 25 A	90 / 278 W	95.6 %	66 / 74 / 76 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-10000-xx	10 kVA	27.8 / 14.4 A	D 32 A	98 / 327 W	95.9 %	72 / 81 / 82 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-12000-xx	12 kVA	33.3 / 17.3 A	D 40 A	114 / 356 W	96.2 %	83 / 92 / 93 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-16000-xx	16 kVA	44.4 / 23.1 A	D 50 A	131 / 424 W	96.6 %	96 / 105 / 106 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-20000-xx	20 kVA	55.5 / 28.9 A	D 63 A	147 / 522 W	96.8 %	107 / 116 / 117 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-25000-xx	25 kVA	69.4 / 36.1 A	D 80 A	163 / 540 W	97.3 %	122 / 131 / 132 kg	525 × 335 × 550	642 × 505 × 550
TTI208400N-40000-xx	40 kVA	111 / 57.7 A	D 125 A	150 / 888 W	97.5 %	120 / 132 / 143 kg	700 × 480 × 720	822 × 610 × 725
TTI208400N-50000-xx	50 kVA	138.8 / 72.2 A	D 160 A	206 / 866 W	97.9 %	162 / 174 / 184 kg	700 × 480 × 720	822 × 610 × 725
TTI208400N-63000-xx	63 kVA	174.9 / 90.9 A	D 200 A	on request	—	200 / 220 / 223 kg	700 × 480 × 720	822 × 610 × 725
TTI208400N-100000-xx	100 kVA	277.6 / 144.3 A	D 315 A	on request	—	325 / 345 / 348 kg	700 × 480 × 720	822 × 610 × 725

Protection and installation

Upstream protection. A type D circuit breaker or aM fuses, sized for the rated current of the chosen rating: the protection rating for each size is given in the table. At switch-on, the inrush current reaches about twelve times the rated current.

Secondary neutral. Earthed at the transformer, it gives a TN-S system, the most common. Left isolated, it gives an IT system, which requires an insulation monitoring device. The choice is the installer's.

Safety. Connection must be carried out by a qualified person. Earth is connected before switching on. In IP00, the transformer is installed in a cabinet or a closed electrical room.

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