

Three-phase transformer 400 V / 230 V + N

Step-down $3 \times 400 \text{ V} \rightarrow 3 \times 230 \text{ V}$ · vector group Dyn11 · 1 to 100 kVA · made in France

Updated: 29 Sep 2026



This three-phase transformer steps a $3 \times 400 \text{ V}$ supply down to $3 \times 230 \text{ V}$ between phases, to power machines and equipment designed for 230 V three-phase (formerly called 220 V). It isolates your installation from the supply and brings out a neutral on the secondary: between a phase and this neutral, you measure 133 V. 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 (Gard, southern France).

YOUR SUPPLY **$3 \times 400 \text{ V}$**

the European three-phase network

TRANSFORMER**Dyn11**

steps down and isolates

YOUR MACHINE **$3 \times 230 \text{ V} + \text{N}$** 230 V between phases ·
133 V phase to neutral

Key points

- **$3 \times 400 \text{ V} \rightarrow 3 \times 230 \text{ V}$** — The voltage for machines designed for 230 V three-phase, from the European supply.
- **Neutral brought out on the secondary** — 133 V between phase and neutral, for a TN-S or IT system.
- **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.
- **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

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
TTI400230N-1000-xx	1 kVA	1.4 / 2.5 A	D 2 A	12 / 58 W	93.5 %	9 / 12 / 19 kg	340 × 310 × 350	595 × 410 × 375
TTI400230N-2000-xx	2 kVA	2.9 / 5 A	D 4 A	22 / 107 W	93.9 %	17 / 20 / 27 kg	340 × 310 × 350	595 × 410 × 375
TTI400230N-2500-xx	2,5 kVA	3.6 / 6.3 A	D 4 A	24 / 126 W	94.3 %	19 / 22 / 29 kg	340 × 310 × 350	595 × 410 × 375
TTI400230N-3150-xx	3,15 kVA	4.5 / 7.9 A	D 6 A	30 / 139 W	94.9 %	23 / 26 / 33 kg	340 × 310 × 350	595 × 410 × 375
TTI400230N-4000-xx	4 kVA	5.8 / 10 A	D 10 A	42 / 241 W	93.4 %	34 / 40 / 44 kg	460 × 320 × 500	642 × 505 × 550
TTI400230N-5000-xx	5 kVA	7.2 / 12.6 A	D 10 A	51 / 255 W	94.2 %	40 / 46 / 50 kg	460 × 320 × 500	642 × 505 × 550
TTI400230N-6300-xx	6,3 kVA	9.1 / 15.8 A	D 10 A	55 / 306 W	94.6 %	44 / 50 / 54 kg	460 × 320 × 500	642 × 505 × 550
TTI400230N-8000-xx	8 kVA	11.5 / 20.1 A	D 16 A	90 / 289 W	95.5 %	65 / 74 / 75 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-10000-xx	10 kVA	14.4 / 25.1 A	D 16 A	98 / 333 W	95.9 %	72 / 81 / 82 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-12000-xx	12 kVA	17.3 / 30.1 A	D 20 A	114 / 358 W	96.2 %	83 / 92 / 93 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-16000-xx	16 kVA	23.1 / 40.2 A	D 25 A	131 / 421 W	96.7 %	96 / 105 / 106 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-20000-xx	20 kVA	28.9 / 50.2 A	D 32 A	147 / 499 W	96.9 %	108 / 116 / 118 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-25000-xx	25 kVA	36.1 / 62.8 A	D 40 A	155 / 597 W	97.1 %	116 / 125 / 126 kg	525 × 335 × 550	642 × 505 × 550
TTI400230N-40000-xx	40 kVA	57.7 / 100.4 A	D 63 A	158 / 850 W	97.5 %	126 / 138 / 149 kg	700 × 480 × 720	822 × 610 × 725
TTI400230N-50000-xx	50 kVA	72.2 / 125.5 A	D 80 A	190 / 976 W	97.7 %	149 / 161 / 172 kg	700 × 480 × 720	822 × 610 × 725
TTI400230N-63000-xx	63 kVA	90.9 / 158.1 A	D 100 A	on request	—	200 / 220 / 223 kg	700 × 480 × 720	822 × 610 × 725
TTI400230N-100000-xx	100 kVA	144.3 / 251 A	D 160 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