

Three-phase isolation transformer 400 V / 400 V + N

Isolates and creates the neutral · vector group Dyn11 · 1 to 100 kVA · made in France



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This three-phase isolation transformer galvanically separates your installation from the 3×400 V supply and gives it a neutral: on the secondary, 400 V between phases and 230 V between each phase and neutral. 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). Standard EN IEC 61558-2-4 calls it an isolating transformer.

YOUR SUPPLY **3×400 V**

with or without neutral

TRANSFORMER**Dyn11**

isolates and creates the neutral

YOUR INSTALLATION **3×400 V + N**400 V between phases ·
230 V phase to neutral

Key points

- **Galvanic isolation** — The secondary is electrically separated from the supply feeding it.
- **Neutral created** — 3×400 V + N, i.e. 230 V phase to neutral, even with no neutral upstream.
- **Vector group Dyn11** — Delta primary, star secondary, neutral brought out to terminal 2N.
- **Electrostatic shield as standard** — Connected to earth, it limits the transfer of disturbances between primary and secondary.
- **TN-S or IT** — Neutral earthed, or left isolated and monitored: the earthing system is chosen on the 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
TTI400400N-1000-xx	1 kVA	1.4 / 1.4 A	D 2 A	13 / 54 W	93.8 %	10 / 13 / 20 kg	340 × 310 × 350	595 × 410 × 375
TTI400400N-2000-xx	2 kVA	2.9 / 2.9 A	D 4 A	22 / 106 W	94 %	17 / 20 / 27 kg	340 × 310 × 350	595 × 410 × 375
TTI400400N-2500-xx	2,5 kVA	3.6 / 3.6 A	D 4 A	24 / 125 W	94.4 %	19 / 22 / 29 kg	340 × 310 × 350	595 × 410 × 375
TTI400400N-3150-xx	3,15 kVA	4.5 / 4.5 A	D 6 A	30 / 138 W	94.9 %	23 / 26 / 33 kg	340 × 310 × 350	595 × 410 × 375
TTI400400N-4000-xx	4 kVA	5.8 / 5.8 A	D 10 A	42 / 236 W	93.5 %	34 / 40 / 44 kg	460 × 320 × 500	642 × 505 × 550
TTI400400N-5000-xx	5 kVA	7.2 / 7.2 A	D 10 A	51 / 258 W	94.2 %	40 / 46 / 50 kg	460 × 320 × 500	642 × 505 × 550
TTI400400N-6300-xx	6,3 kVA	9.1 / 9.1 A	D 10 A	55 / 309 W	94.5 %	44 / 50 / 54 kg	460 × 320 × 500	642 × 505 × 550
TTI400400N-8000-xx	8 kVA	11.5 / 11.5 A	D 16 A	90 / 273 W	95.7 %	66 / 75 / 76 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-10000-xx	10 kVA	14.4 / 14.4 A	D 16 A	98 / 322 W	96 %	72 / 81 / 82 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-12000-xx	12 kVA	17.3 / 17.3 A	D 20 A	114 / 363 W	96.2 %	83 / 92 / 93 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-16000-xx	16 kVA	23.1 / 23.1 A	D 25 A	131 / 413 W	96.7 %	96 / 105 / 106 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-20000-xx	20 kVA	28.9 / 28.9 A	D 32 A	147 / 503 W	96.9 %	108 / 116 / 118 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-25000-xx	25 kVA	36.1 / 36.1 A	D 40 A	163 / 535 W	97.3 %	122 / 131 / 132 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-30000-xx	30 kVA	43.3 / 43.3 A	D 50 A	171 / 703 W	97.2 %	128 / 137 / 138 kg	525 × 335 × 550	642 × 505 × 550
TTI400400N-40000-xx	40 kVA	57.7 / 57.7 A	D 63 A	158 / 856 W	97.5 %	126 / 138 / 149 kg	700 × 480 × 720	822 × 610 × 725
TTI400400N-50000-xx	50 kVA	72.2 / 72.2 A	D 80 A	206 / 883 W	97.9 %	161 / 173 / 184 kg	700 × 480 × 720	822 × 610 × 725
TTI400400N-63000-xx	63 kVA	90.9 / 90.9 A	D 100 A	on request	—	200 / 220 / 223 kg	700 × 480 × 720	822 × 610 × 725
TTI400400N-80000-xx	80 kVA	115.5 / 115.5 A	D 125 A	on request	—	280 / 300 / 303 kg	700 × 480 × 720	822 × 610 × 725
TTI400400N-100000-xx	100 kVA	144.3 / 144.3 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