



Three phase isolating transformer with galvanic isolation between primary and secondary.

For general use as isolating transformer and isolation of circuits, eliminating the risk of electrical shock in case of unipolar human contact. Intended for voltage adaptation in three phase systems and single phase loads with a maximum unbalance of 25% between phases.


Mounting into metal enclosure, protection degree of IP23, coated with a resin polyester-epoxy powder with excellent physical-mechanical and anti-corrosive properties. Type II enclosure includes wheels.

Connection with terminal blocks (rating from 1 to 25 kVA).

Connection with screws for flat terminals (rating from 31 to 80 kVA).

Connection with flat busbars (rating from 100 to 1000 kVA).

Technical Characteristics

Power rating	1 ÷ 1000 kVA
Input voltage	3 x 400 V
Output voltage	3 x 230 V + N (Series TDC) 3 x 400 V + N (Series TTC)
Vector group	Yyn0 Dyn11 (add suffix D to reference)
Frequency	50/60 Hz
Ambient temp	30 °C
Insulation class	F (155 °C) up to TTC0125 H (180 °C) from TTC0160
Protection degree	IP-23
Safety class	Class I 
Test voltage	3 kV

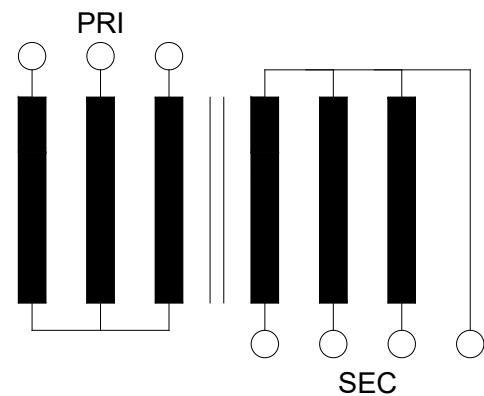
Standard



Power rating ≤ 40 kVA:
IEC/UNE-EN 61558-1

Power rating > 40 kVA:
IEC/UNE-EN 60076-11

Electrical diagram



SERIES TDC Y TTC

- For general use, select the power according to the load and power factor:

$$kW = \sqrt{3} \times V \times I / 1000$$

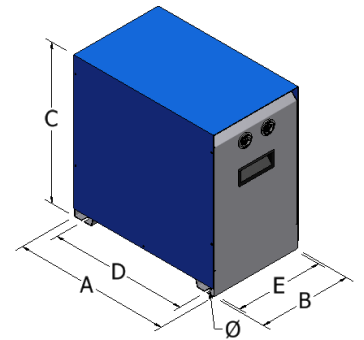
$$kVA = kW / \text{Cos } \varphi$$

- For loads with high inrush current or harmonics, consult "Rating selection guide" at the end of catalogue.

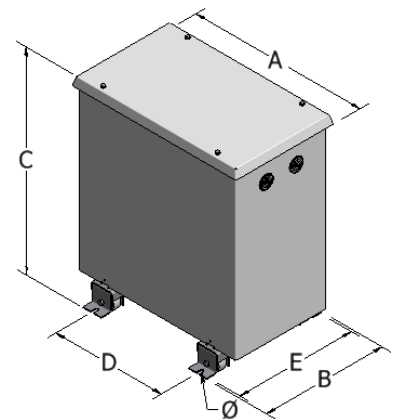
Rating kVA	Reference		Dimensions mm						Weight kg	Type
	400/230V	400/400V	A	B	C	D	E	Ø		
1	TDC001	TTC001	300	185	305	265	165	7	18	I
2	TDC002	TTC002	300	185	305	265	165	7	25	I
3	TDC003	TTC003	370	225	375	325	205	7	33	I
4	TDC004	TTC004	370	225	375	325	205	7	37	I
5	TDC005	TTC005	370	225	375	325	205	7	42	I
6	TDC006	TTC006	370	225	375	325	205	7	50	I
8	TDC008	TTC008	475	345	520	320	320	10	62	II
10	TDC010	TTC010	475	345	520	320	320	10	73	II
12	TDC012	TTC012	545	385	615	350	360	10	92	II
16	TDC016	TTC016	545	385	615	350	360	10	106	II
20	TDC020	TTC020	615	425	690	400	400	10	127	II
25	TDC025	TTC025	615	425	690	400	400	10	148	II
31	TDC031	TTC031	775	575	940	400	550	10	213	II
40	TDC040	TTC040	775	575	940	400	550	10	248	II
50	TDC050	TTC050	775	575	940	400	550	10	297	II
63	TDC063	TTC063	775	575	940	400	550	10	281	II
80	TDC080	TTC080	775	575	940	400	550	10	346	II
100	TDC100	TTC100	930	710	1275	480	670	16	468	III
125	TDC125	TTC125	930	710	1275	480	670	16	636	III
160	TDC160	TTC160	930	710	1275	480	670	16	735	III
200	TDC200	TTC200	930	710	1275	480	670	16	832	III
250	TDC250	TTC250	1070	880	1460	660	840	16	1041	IV
315	TDC315	TTC315	1070	880	1460	660	840	16	1260	IV
400	TDC400	TTC400	1070	880	1460	660	840	16	1425	IV
500	TDC500	TTC500	1210	1070	1650	660	840	16	1645	IV
630	TDC630	TTC630	1210	1070	1650	660	840	16	1856	IV
800	TDC800	TTC800	1210	1070	1650	660	840	16	2257	IV
1000	TDC1000	TTC1000	1210	1070	1650	660	840	16	2605	IV

* Other features, power, voltage, etc., on request.

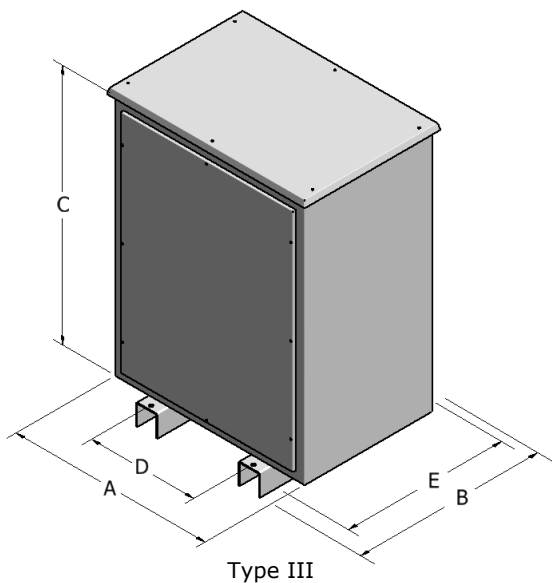
* Torytrans reserves the right to modify the information in any time and without prior notice.



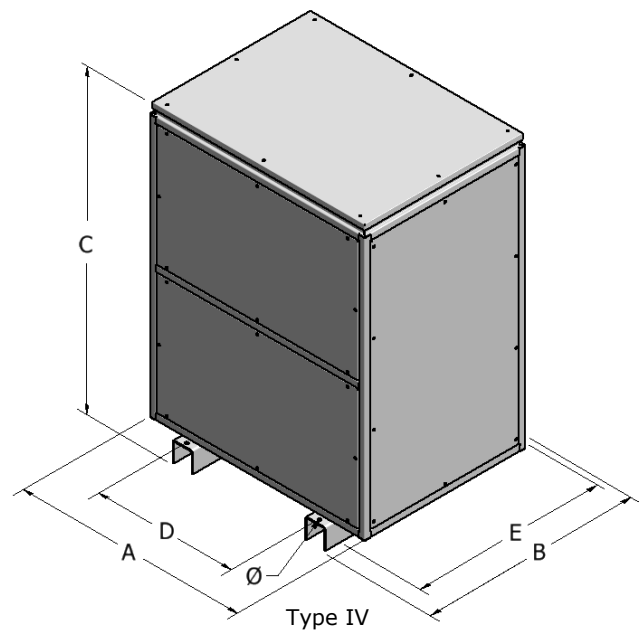
Type I



Type



Type III



Type IV