



Single - phase Transformers on EI Core are available as Control, Isolating and Safety-isolating transformers and correspond EN 61588, as well as CE, LVD, EMC and RoHS. Input and output voltages, characteristics, fixing and connection are defined by order. Dimensions in the table are informative. Presenting powers are available for normal, continuous charge.

### Characteristics

Size	Power	Max. dimension in mm			Weight
		A	x	B	
EI 30/10-18	0,5-2	30		26-33	0,1-0,2
EI 38/13	2	38		31	0,18
EI 42/14-20	3-5	42		32-38	0,2-0,3
EI 48/16-20	5-10	48		43-51	0,25-0,35
EI 54/18	8-15	54		45	0,4
EI 60/21-25-31	12-30	60		55-59-65	0,5-0,8
EI 66/23-34	25-35	66		59-71	0,75-1
EI 78/27-36	30-60	78		64-73	1,1-1,5
EI 84/29-32	50-75	84		66-69	1,5-1,8
EI 84/38-43-52	70-110	84		75-80-88	1,9-2,2
EI 96/35-45-59	100-240	96		77-87-101	2,3-3,7
EI 105/37-45-60	140-280	105		79-87-102	2,7-4,3
EI 106/33-46	150-220	106		89-102	2,6-3,8
EI 108/36-52-65	130-270	108		78-92-105	3,2-4,8
EI 120/41-53	180-300	120		88-100	4,5-5,5
EI 120/61-53	280-500	120		108-120	5,8-7,3
EI 135/42-52-57	320-460	135		95-105-115	5,5-7,2
EI 135/62-72	400-550	135		115-125	7,5-9
EI 150N/50-66-92	450-900	150		107-124-150	7-13,5
EI 170/66-76	600-1200	170		161-171	13,8-18,5
EI 174/62-72	600-900	174		128-138	14-16,5
EI 174/82-102	800-1200	174		148-168	17-21
EI 192/66-70-82	1000-1500	192		138-142-154	15-22
EI 192/92-100-110	1400-2200	192		164-172-182	22-30
EI 231/100	2000-3000	231		200	25-44

### By:

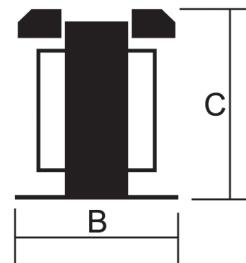
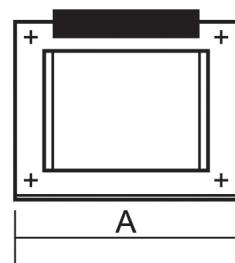
**PV/0, ZT/0** is  $A \times B \times C = A \times B \times C$  in table; **PV/1, ZT/1** is  $A \times B \times C = C \times B \times A$  in table;  
**PV/4, ZT/4** is  $A \times B \times C = A \times C \times B$  in table

### Transformers dimensions:

A - Length

B - Breadth

C - Height



REACTORS  
THREE - PHASE UI  
SINGLE - PHASE EI  
SINGLE - PHASE EI

# Single-phase EI transformers



RoHS

CE

## Characteristics and standards

This information is only given for as a guide, but you may request a test report for confirmation. Our transformers and windings are produced according to European or International Standards,

- NF EN 61558-2-1 : Low capacity power insulation transformers ( $\leq 1$  KVA single phase,  $\leq 5$  KVA three phase).
- NF EN 60076 : Power transformers.
- NF EN 61558-2-2 : Control transformers.
- NF EN 61558-2-4 : Isolating transformers.
- NF EN 61558-2-6 : Safety isolating transformers.
- NF EN 61558-2-13 : Low capacity power autotransformers.
- NF EN 61558-2-15 : Isolating transformers for the supply of medical locations.
- NF EN 60947-4-1 : Start-up autotransformers three phase motor.
- NF EN 61558-2-20 : Reactors

The insulations used between layers:

- Class B (maximum temperature  $130^\circ$  C),
- Class F (maximum temperature  $155^\circ$  C),
- Class H (maximum temperature  $180^\circ$  C)

## Protection against direct contact:

For the enclosed type transformer, the equipment is protected by a metallic enclosure as per NF EN 60529 and NF EN 62262 standard:

- IP 21 – IK 08, except at the bottom
- IP 55 – IK 08 or other on request.

## Autotransformer:

An autotransformer has only one winding rated for the highest voltage. The lowest voltage is obtained on the middle tap changer.

Therefore, there is no insulation between circuits and use of this type of transformers must not be used as a safety transformer or to achieve circuit separation. However, the autotransformer is a very economical solution to obtain a voltage change. For a same power and voltage ratio, an autotransformer is smaller and has a better efficiency than a transformer.

(ex. : a 10 KVA autotransformer will be the same size as a 4 KVA transformer).

Our autotransformers have a compensation tap to ensure real reversal feed.

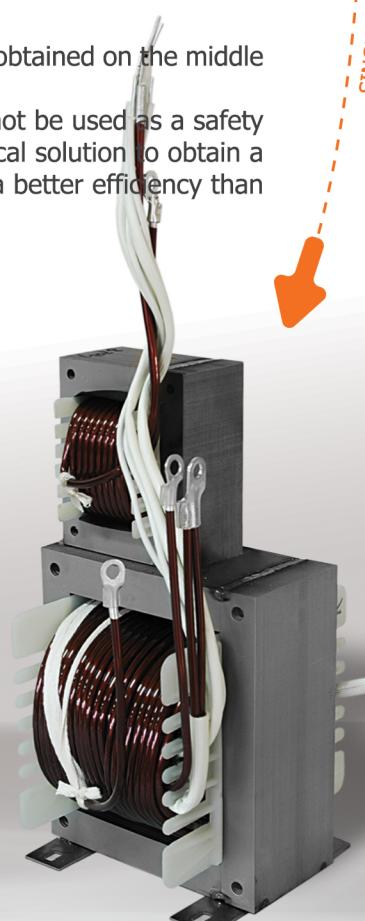
## Vacuum impregnation:

To avoid moisture absorption,  
To stop wear due to vibrations,  
To improve thermal exchange,  
To reduce noise level

## Control:

All our equipment and winding characteristics are systematically tested.  
On request, we can provide a test report to the customer.

**Technological progress and updating of standards can lead us to modify the dimensions and characteristics of the products appearing in this document without advance notice.**



SINGLE - PHASE EI   SINGLE - PHASE UII   THREE - PHASE UII   THREE - PHASE EI   REACTORS