

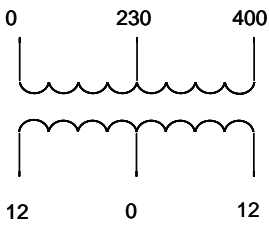
Single phase safety and insulating transformers

Safety transformer:
It is an insulating transformer designed to supply circuit at a maximum of 50V (safety extra-low voltage).

Insulating transformer:
It is a transformer in which the primary and secondary windings are separated by a double or reinforced insulation, in order to limit, in the circuit supplied by the secondary winding, any risk due to accidental contacts with active parts or parts that can become active in case of an insulation fault.

Impregnation:
The transformers are completely impregnated with an inorganic resin. This operation improves the characteristics of the used materials, prevents the penetration of humidity inside the core and the windings, reduces greatly the noises caused by the vibration.

Single phase safety and insulating transformers IP00

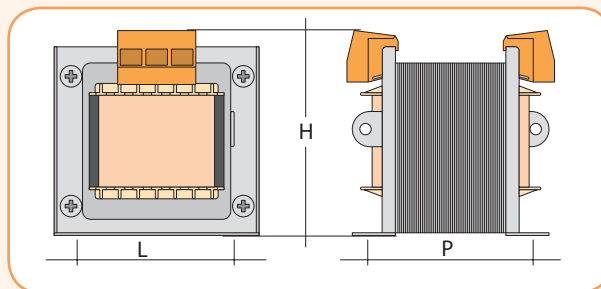
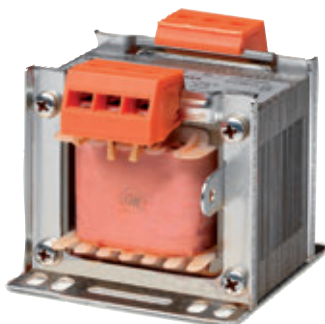


Single phase safety transformers
Primary voltage 230, 400V. Secondary voltage 24V (12V-0-12V). Thermal class B

Type	Description	Code No.	Power (VA)	Dimensions LxHxP (mm)	Weight (kg)	Packaging (pcs)
TRANSF 1fB 12-0-12V 30VA	Single phase safety transf. 12-0-12V 30VA	003801001	30	77x77x78	1,00	12
TRANSF 1fB 12-0-12V 50VA	Single phase safety transf. 12-0-12V 50VA	003801002	50	77x77x83	1,45	12
TRANSF 1fB 12-0-12V 75VA	Single phase safety transf. 12-0-12V 75VA	003801003	75	77x77x93	1,65	12
TRANSF 1fB 12-0-12V 100VA	Single phase safety transf. 12-0-12V 100VA	003801004	100	85x85x93	1,88	12
TRANSF 1fB 12-0-12V 150VA	Single phase safety transf. 12-0-12V 150VA	003801005	150	98x95x93	2,40	6
TRANSF 1fB 12-0-12V 200VA	Single phase safety transf. 12-0-12V 200VA	003801006	200	98x95x103	2,93	6
TRANSF 1fB 12-0-12V 250VA	Single phase safety transf. 12-0-12V 250VA	003801007	250	123x108x91	3,90	4
TRANSF 1fB 12-0-12V 300VA	Single phase safety transf. 12-0-12V 300VA	003801008	300	123x108x95	4,00	4
TRANSF 1fB 12-0-12V 400VA	Single phase safety transf. 12-0-12V 400VA	003801009	400	123x108x108	5,10	4
TRANSF 1fB 12-0-12V 500VA	Single phase safety transf. 12-0-12V 500VA	003801010	500	123x130x120	7,20	4
TRANSF 1fB 12-0-12V 630VA	Single phase safety transf. 12-0-12V 630VA	003801011	630	153x130x135	8,90	4
TRANSF 1fB 12-0-12V 800VA	Single phase safety transf. 12-0-12V 800VA	003801012	800	153x130x145	11,70	1
TRANSF 1fB 12-0-12V 1000VA	Single phase safety transf. 12-0-12V 1000VA	003801013	1000	153x130x160	12,50	1
TRANSF 1fB 12-0-12V 1600VA	Single phase safety transf. 12-0-12V 1600VA	003801014	1600	195x187x150	17,00	1
TRANSF 1fB 12-0-12V 2000VA	Single phase safety transf. 12-0-12V 2000VA	003801015	2000	195x187x160	19,10	1
TRANSF 1fB 12-0-12V 2500VA	Single phase safety transf. 12-0-12V 2500VA	003801016	2500	195x187x190	23,00	1
TRANSF 1fB 12-0-12V 3000VA	Single phase safety transf. 12-0-12V 3000VA	003801017	3000	195x187x210	30,00	1
TRANSF 1fB 12-0-12V 4000VA	Single phase safety transf. 12-0-12V 4000VA	003801018	4000	240x270x270	40,00	1
TRANSF 1fB 12-0-12V 5000VA	Single phase safety transf. 12-0-12V 5000VA	003801019	5000	240x270x280	44,00	1
TRANSF 1fB 12-0-12V 6000VA	Single phase safety transf. 12-0-12V 6000VA	003801020	6000	240x270x290	46,00	1
TRANSF 1fB 12-0-12V 8000VA	Single phase safety transf. 12-0-12V 8000VA	003801021	8000	320x430x270	60,00	1
TRANSF 1fB 12-0-12V 10000VA	Single phase safety transf. 12-0-12V 10000VA	003801022	10000	320x430x280	75,00	1

Features:

- Electrolytic copper: Class F/H
- Impregnated with insulating resin
- Admissible voltage tolerance +/- 15%



Single phase safety and insulating transformers IP00

Technical data:	
Frequency	50 Hz
Thermal class	B & F
Losses in the core sheets	1,3 - 1,5 W/kg
Insulation voltage	4000V between coils 2000V between coils and ground
Primary voltage	230 V/50 Hz 230 V +/- 15V 50 Hz - type EURO
Standard	EN 61558-2-4
Service type	Continuous
Protection index	IP00

Technical features chart of single phase safety and insulating transformers. Thermal class B

Fall secondary windings power (VA)	No-load losses ΔP (W)	Losses (short circuit) ΔP (W)	U_{cc} ($\cos \varphi=1$) (%)	Efficiency ($\cos \varphi=1$) (%)
30	2,4	3,9	9,9	79%
40	3	5,7	10	79%
50	2,9	7,1	10,6	80%
63	3,8	7,1	9,6	82%
75	4,3	9,4	9,2	82%
100	4,6	10,1	9,1	85%
150	5,7	16,2	7,5	85%
200	7,2	22	7,3	86%
250	8,9	23,7	6,5	87%
300	9,8	24	5,6	89%
400	11	27	5,3	90%
500	16,2	28,2	4,2	91%
630	18,9	43	4,3	90%
800	20	46	4,1	92%
1000	28	45	3,2	93%
1600	35	65	3,1	94%
2000	30	88	2,7	94%
2500	60	67	2,1	95%
3000	70	85	3	95%
4000	50	158	3,2	95%
5000	50	250	2,8	94%
6000	60	280	2,8	94%
8000	100	240	2,9	96%
10000	137	200	1,6	97%

Technical features chart of single phase safety and insulating transformers. Thermal class F

Fall secondary windings power (VA)	No-load losses ΔP (W)	Losses (short circuit) ΔP (W)	U_{cc} ($\cos \varphi=1$) (%)	Efficiency ($\cos \varphi=1$) (%)
40	3	7	12	75%
63	3,9	8	10,5	81%
100	4,9	11	9,5	84%
160	6,1	16,8	8,5	86%
200	7,7	23	8	85%
250	9,1	25	6,5	86%
300	10	25,4	6	88%
400	12,8	32,5	5,5	89%
500	16,5	35,5	4,8	90%
630	19,1	44,2	4,6	90%
1000	28,5	48	4,5	93%
1600	38	70	3,5	93%
2000	36	76	3,5	94%
2500	65	75	2,5	94%