

## Safety isolating transformer EL



### General Data

Rated input voltage 230 Vac
Rated output voltage 2 x 6 - 2 x 18 Vac
Rated power 7.5 - 100 VA
Insulation class E
Maximum ambient temperature 40 °C
Efficiency up to 88 %
Degree of protection IP 00

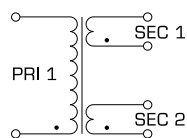
### Advantages

Solder tab for free wiring
Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation
Coil shell in 2-chamber technology
Simple mounting thanks to robust metal footplate with oval slots

### Applications

Safety isolating transformer for the safe electrical isolation of the input and output sides. The transformer is suitable for creating SELV and PELV circuits because of the limit on the output voltage.

### Sample application



### Standards



Safety isolating transformer  
to: VDE 0570 Part 2-6, DIN EN 61558-2-6, EN 61558-2-6, IEC 61558-2-6

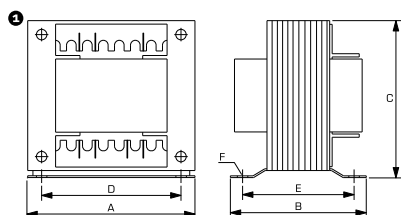


## Safety isolating transformer EL

Type	EL 7,5/..	EL 13/..	EL 18/..	EL 28/..	EL 50/..	EL 100/..
<b>Electrical data</b>						
<b>Input</b>						
Rated input voltage	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac
Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
<b>Output</b>						
<b>Rated output voltage: Order no.</b>	2x6 Vac: EL 7,5/6 2x9 Vac: EL 7,5/9 2x12 Vac: EL 7,5/12 2x15 Vac: EL 7,5/15 2x18 Vac: EL 7,5/18	2x6 Vac: EL 13/6 2x9 Vac: EL 13/9 2x12 Vac: EL 13/12 2x15 Vac: EL 13/15 2x18 Vac: EL 13/18	2x6 Vac: EL 18/6 2x9 Vac: EL 18/9 2x12 Vac: EL 18/12 2x15 Vac: EL 18/15 2x18 Vac: EL 18/18	2x6 Vac: EL 28/6 2x9 Vac: EL 28/9 2x12 Vac: EL 28/12 2x15 Vac: EL 28/15 2x18 Vac: EL 28/18	2x6 Vac: EL 50/6 2x9 Vac: EL 50/9 2x12 Vac: EL 50/12 2x15 Vac: EL 50/15 2x18 Vac: EL 50/18	2x9 Vac: EL 100/9 2x12 Vac: EL 100/12 2x15 Vac: EL 100/15 2x18 Vac: EL 100/18 2x24 Vac: EL 100/24
Rated Power	7.5 VA	13.0 VA	18.0 VA	28.0 VA	50.0 VA	100.0 VA
No-load voltage (app. x factor)	1.38	1.28	1.18	1.16	1.15	1.11
No-load loss (typ.)	2.00 W	2.20 W	2.70 W	3.10 W	3.50 W	4.70 W
Efficiency	62 %	67 %	72 %	77 %	81 %	88 %
<b>Environment</b>						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
<b>Safety and protection</b>						
Type	open type	open type	open type	open type	open type	open type
Class of Insulation System	E	E	E	E	E	E
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	II	II	II	II	II	II
Short circuit strength	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof
Overload protection	Typ PTC 880 (Accessory - available on request)	Typ PTC 872 (Accessory - available on request)	Typ PTC 860 (Accessory - available on request)	Typ PTC 850 (Accessory - available on request)	Typ PTC 840 (Accessory - available on request)	Typ PTC 810 (Accessory - available on request)
Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
<b>Order numbers</b>						
<b>Order Number</b>	<b>see output voltage</b>	<b>see output voltage</b>	<b>see output voltage</b>	<b>see output voltage</b>	<b>see output voltage</b>	<b>see output voltage</b>

<b>30 Mechanical data</b>						
<b>Terminal and mounting</b>						
Terminals	Solder tab for free wiring	Solder tab for free wiring	Solder tab for free wiring	Solder tab for free wiring	Solder tab for free wiring	Solder tab for free wiring
Fixing method	Base plate	Base plate	Base plate	Base plate	Base plate	Base plate
Fixing screws	M3	M3	M3	M3	M4	M4
<b>Measures and weights</b>						
Weight	0.26 kg	0.36 kg	0.50 kg	0.68 kg	0.97 kg	1.96 kg
Core type	EI 48/16,5	EI 54/18,8	EI 60/21	EI 60/30	EI 75/26,5	EI 84/43,5
Dimension picture (in mm)	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
A	48	54	60	60	75	84
B	39	40	47	56	59	80
C	45	50	55	55	67	76
D	40	45	50	50	62,5	64
E	32	30	32	42	45	63,5

### Dimension pictures



1.1

1.2

1.3

1.4

1.5