

Short circuit proof PCB transformer PT



General Data

Rated input voltage 230 Vac
Rated output voltage 6 - 2 x 24 Vac
Rated power 4.5 - 30 VA
Insulation class E
Maximum ambient temperature 40 °C
Efficiency up to 83 %
Degree of protection IP 00

Advantages

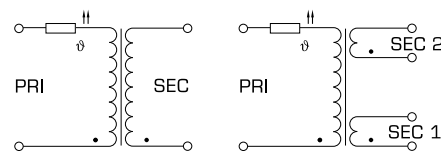
Minimum size at high output
Integrated overload protection using PTC in the input
Also with double output voltage for series or parallel connection
Permanent corrosion protection, high insulation value and maximum electrical reliability thanks to XtraDensIFill resin encapsulation
Coil shell in 2-chamber technology
Self-extinguishing potting material
Space saving installation thanks to additional screw mounting in the base plate

Applications

As a mains transformer for adjustment of the voltage and simple electrical isolation.

Safety 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.

Circuit Diagram



Standards



Mains transformer
to: VDE 0570 Teil 2-1, DIN EN 61558-2-1, EN 61558-2-1, IEC 61558-2-1, UL 5085-1/-2, CSA 22.2 No.66

Safety isolating transformer
to: VDE 0570 Teil 2-6, DIN EN 61558-2-6, EN 61558-2-6, IEC 61558-2-6, UL 5085-1/-2, CSA 22.2 No.66

Certifications



ENEC 10 (VDE), UL 5085-1/-2, CSA 22.2 No.66



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Type	PT 4,5/1/..	PT 4,5/2/..	PT 7,5/1/..	PT 7,5/2/..	PT 13/1/..	PT 13/2/..
Electrical data						
Input						
Rated input voltage	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Output						
Rated output voltage: Order no.	6 Vac: PT 4,5/1/6 8 Vac: PT 4,5/1/8 9 Vac: PT 4,5/1/9 12 Vac: PT 4,5/1/12 15 Vac: PT 4,5/1/15 18 Vac: PT 4,5/1/18 24 Vac: PT 4,5/1/24	2x6 Vac: PT 4,5/2/6 2x8 Vac: PT 4,5/2/8 2x9 Vac: PT 4,5/2/9 2x12 Vac: PT 4,5/2/12 2x15 Vac: PT 4,5/2/15 2x18 Vac: PT 4,5/2/18 2x24 Vac: PT 4,5/2/24*	6 Vac: PT 7,5/1/6 8 Vac: PT 7,5/1/8 9 Vac: PT 7,5/1/9 12 Vac: PT 7,5/1/12 15 Vac: PT 7,5/1/15 18 Vac: PT 7,5/1/18 24 Vac: PT 7,5/1/24	2x6 Vac: PT 7,5/2/6 2x8 Vac: PT 7,5/2/8 2x9 Vac: PT 7,5/2/9 2x12 Vac: PT 7,5/2/12 2x15 Vac: PT 7,5/2/15 2x18 Vac: PT 7,5/2/18 2x24 Vac: PT 7,5/2/24*	6 Vac: PT 13/1/6 8 Vac: PT 13/1/8 9 Vac: PT 13/1/9 12 Vac: PT 13/1/12 15 Vac: PT 13/1/15 18 Vac: PT 13/1/18 24 Vac: PT 13/1/24	2x6 Vac: PT 13/2/6 2x8 Vac: PT 13/2/8 2x9 Vac: PT 13/2/9 2x12 Vac: PT 13/2/12 2x15 Vac: PT 13/2/15 2x18 Vac: PT 13/2/18 2x24 Vac: PT 13/2/24*
Rated Power	4,5 VA	4,5 VA	7,5 VA	7,5 VA	13,0 VA	13,0 VA
No-load voltage (app. x factor)	1,32	1,32	1,21	1,21	1,23	1,23
No-load loss (typ.)	1,50 W	1,50 W	1,30 W	1,30 W	1,30 W	1,30 W
Efficiency	65 %	65 %	65 %	65 %	73 %	73 %
Standards						
Classification	Safety isolating transformer	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer	Safety isolating transformer *Mains transformer (without VDE mark)
Approvals						
Approvals	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type	encapsulated	encapsulated	encapsulated	encapsulated	encapsulated	encapsulated
Class of Insulation System	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105
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-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof
Order numbers						
Order Number	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage

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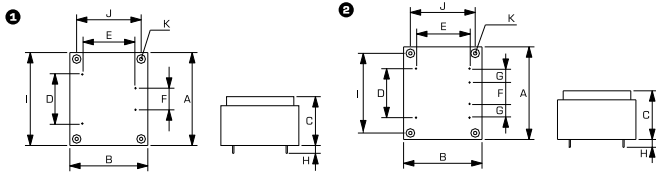
Type	PT 22/1/..	PT 22/2/..	PT 30/1/..	PT 30/2/..
Electrical data				
Input				
Rated input voltage	230 Vac	230 Vac	230 Vac	230 Vac
Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Output				
Rated output voltage: Order no.	6 Vac: PT 22/1/6 8 Vac: PT 22/1/8 9 Vac: PT 22/1/9 12 Vac: PT 22/1/12 15 Vac: PT 22/1/15 18 Vac: PT 22/1/18 24 Vac: PT 22/1/24	2x6 Vac: PT 22/2/6 2x8 Vac: PT 22/2/8 2x9 Vac: PT 22/2/9 2x12 Vac: PT 22/2/12 2x15 Vac: PT 22/2/15 2x18 Vac: PT 22/2/18	6 Vac: PT 30/1/6 8 Vac: PT 30/1/8 9 Vac: PT 30/1/9 12 Vac: PT 30/1/12 15 Vac: PT 30/1/15 18 Vac: PT 30/1/18 24 Vac: PT 30/1/24	2x6 Vac: PT 30/2/6 2x8 Vac: PT 30/2/8 2x9 Vac: PT 30/2/9 2x12 Vac: PT 30/2/12 2x15 Vac: PT 30/2/15 2x18 Vac: PT 30/2/18
Rated Power	22.0 VA	22.0 VA	30.0 VA	30.0 VA
No-load voltage (app. x factor)	1.19	1.19	1.13	1.13
No-load loss (typ.)	2.40 W	2.40 W	2.30 W	2.30 W
Efficiency	77 %	77 %	83 %	83 %
Standards				
Classification	Safety isolating transformer	Safety isolating transformer	Safety isolating transformer	Safety isolating transformer
Approvals				
Approvals	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)	cURus, ENEC (VDE)
Environment				
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C
Safety and protection				
Type	encapsulated	encapsulated	encapsulated	encapsulated
Class of Insulation System	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105	VDE=E, UL=class 105
Protection index	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	II	II	II	II
Short circuit strength	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof
Order numbers				
Order Number	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage	refer to rated output voltage



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Typ	Terminals	Pin (ø)	Core type	Weight	Dimension picture (in mm)	Dimensions (mm)										
						A	B	C	D	E	F	G	H	I	J	K
PT 4,5/1/..	Pins for printed circuit boards	0.8 mm	EI 42/14,8	0.19 kg	1	44	37	33	25	25	15	-	7	35	28	2.5
PT 4,5/2/..	Pins for printed circuit boards	0.8 mm	EI 42/14,8	0.19 kg	2	44	37	33	25	25	15	5	7	35	28	2.5
PT 7,5/1/..	Pins for printed circuit boards	0.8 mm	EI 48/16,8	0.28 kg	1	51	43	36	25	27.5	15	-	7	40	32	2.5
PT 7,5/2/..	Pins for printed circuit boards	0.8 mm	EI 48/16,8	0.28 kg	2	51	43	36	25	27.5	15	5	7	40	32	2.5
PT 13/1/..	Pins for printed circuit boards	0.8 mm	EI 54/18,8	0.42 kg	1	56	47	40	30	30	20	-	7	47.5	37.5	2.5
PT 13/2/..	Pins for printed circuit boards	0.8 mm	EI 54/18,8	0.42 kg	2	56	47	40	30	30	20	5	7	47.5	37.5	2.5
PT 22/1/..	Pins for printed circuit boards	0.8 mm	EI 60/21	0.57 kg	1	64	54	46	30	32.5	10	-	7	52.5	40	2.5
PT 22/2/..	Pins for printed circuit boards	0.8 mm	EI 60/21	0.57 kg	2	64	54	46	30	32.5	10	10	7	52.5	40	2.5
PT 30/1/..	Pins for printed circuit boards	0.8 mm	EI 60/30,5	0.78 kg	1	64	54	55	30	32.5	10	-	7	52.5	40	2.5
PT 30/2/..	Pins for printed circuit boards	0.8 mm	EI 60/30,5	0.78 kg	2	64	54	55	30	32.5	10	10	7	52.5	40	2.5

Dimension pictures



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1.5

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