

PCB transformer VC



General Data

Rated input voltage 230 Vac
Rated output voltage 6 - 2 x 24 Vac
Rated power 3.2 - 16 VA
Insulation class B
Maximum ambient temperature 40 - 60 °C
Efficiency up to 76 %
Degree of protection IP 00

Advantages

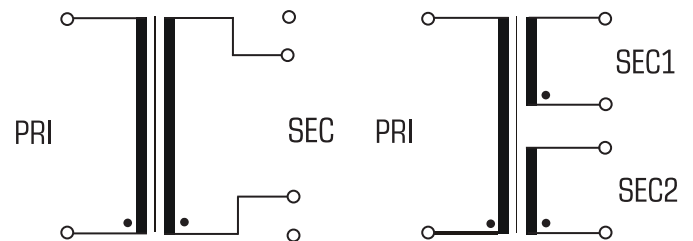
Minimum size at high output
Also with dual output voltage for series or parallel connection
Permanent corrosion protection, high insulation value and maximum electrical reliability thanks to XtraDenseFill resin encapsulation
Self-extinguishing potting material

Applications

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

As a 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.

Sample applications



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

Approvals



VDE, UL 5085-1/-2, CSA 22.2 No.66



PCB transformer

VC

Typ	VC 16/1/...	VC 16/2/...
Electrical data		
Input		
Rated input voltage	230 Vac	230 Vac
Rated frequency	50 - 60 Hz	50 - 60 Hz
Output		
Rated output voltage: Order no.	6 Vac: VC 16/1/6 8 Vac: VC 16/1/8 9 Vac: VC 16/1/9 12 Vac: VC 16/1/12 15 Vac: VC 16/1/15 18 Vac: VC 16/1/18 24 Vac: VC 16/1/24	2x6 Vac: VC 16/2/6 2x8 Vac: VC 16/2/8 2x9 Vac: VC 16/2/9 2x12 Vac: VC 16/2/12 2x15 Vac: VC 16/2/15 2x18 Vac: VC 16/2/18 2x24 Vac: VC 16/2/24*
Rated Power	16 VA	16 VA
No-load voltage (app. x factor)	1.24	1.24
No-load loss (typ.)	1.80 W	1.80 W
Efficiency	76.0 %	76.0 %
Standards		
Classification	Safety isolating transformer	Safety isolating transformer * Mains transformer (without VDE mark)
Approvals		
Approvals	cURus, VDE	cURus, VDE
Environment		
Ambient temperature max.	40 °C	40 °C
Safety and protection		
Type	Encapsulated	Encapsulated
Insulation class	VDE=B, UL=class 105	VDE=B, UL=class 105
Protection index	IP 00	IP 00
Safety class (prepared)	II	II
Short circuit strength	non-short-circuit proof	non-short-circuit proof
Order numbers		
Order Number	see rated output voltage	see rated output voltage

1 Transformers

PCB transformers



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Mechanical data	Typ	Terminals	Pin (ø)	Core type	Weight	Dimension picture (in mm)	Dimensions (mm)							
							A	B	C	D	E	F	G	H
							1	2	1	2	1	2	1	2
VC 3,2/1/...	Pins for printed circuit boards	0.8 mm	EI 38/13,5	0.15 kg	1	41	35	28.1	20	25	10	5	5	
VC 3,2/2/...	Pins for printed circuit boards	0.8 mm	EI 38/13,5	0.15 kg	2	41	35	28.1	20	25	10	5	5	
VC 5,0/1/...	Pins for printed circuit boards	0.8 mm	EI 42/14,8	0.19 kg	1	44	37	33	25	25	15	5	5	
VC 5,0/2/...	Pins for printed circuit boards	0.8 mm	EI 42/14,8	0.19 kg	2	44	37	33	25	25	15	5	5	
VC 10/1/...	Pins for printed circuit boards	0.8 mm	EI 48/16,8	0.28 kg	1	51	43	34.6	25	27.5	15	5	7	
VC 10/2/...	Pins for printed circuit boards	0.8 mm	EI 48/16,8	0.28 kg	2	51	43	34.6	25	27.5	15	5	7	
VC 16/1/...	Pins for printed circuit boards	0.8 mm	EI 54/18,8	0.42 kg	1	57	48	39	30	30	20	5	7.5	
VC 16/2/...	Pins for printed circuit boards	0.8 mm	EI 54/18,8	0.42 kg	2	57	48	39	30	30	20	5	7.5	

Dimension pictures

