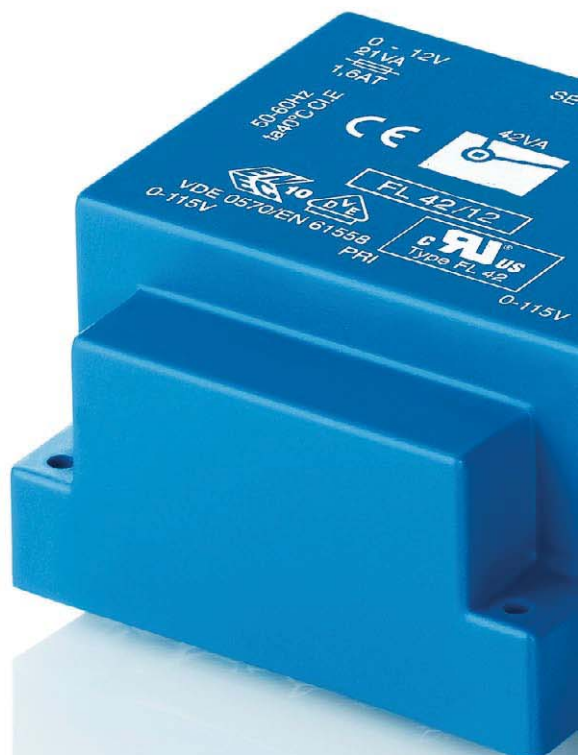


Low profile transformer

FL



General Data

Rated input voltage 2 x 115 Vac
Rated output voltage 2 x 5 - 2 x 24 Vac
Rated power 2 - 52 VA
Insulation class E
Maximum ambient temperature 40 °C
Efficiency up to 81 %
Degree of protection IP 00

Advantages

Minimum size at high output
Low height
Dual input voltage for series or parallel connection
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

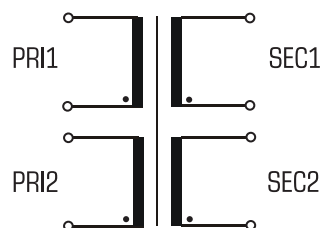
Applications

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

As an isolating transformer for the safe electrical isolation of the input and output sides. The transformer may be used to set up protective separation as a protective measure in accordance with VDE 0100.

As a 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



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

Isolating transformer
to: VDE 0570 Part 2-4, DIN EN 61558-2-4, EN 61558-2-4, IEC 61558-2-4, UL 5085-1/-2, CSA 22.2 No.66

Safety isolating transformer
to: VDE 0570 Part 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



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

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Low profile transformer

[illegible]

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Electrical data	Typ	FL 18/..	FL 24/..	FL 30/..	FL 42/..	FL 52/..
	Input					
	Rated input voltage	2 x 115 Vac	2 x 115 Vac	2 x 115 Vac	2 x 115 Vac	2 x 115 Vac
	Rated frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
	Output					
	Rated output voltage: Order no.	2x5 Vac: FL 18/5 2x6 Vac: FL 18/6 2x8 Vac: FL 18/8 2x9 Vac: FL 18/9 2x12 Vac: FL 18/12 2x15 Vac: FL 18/15 2x18 Vac: FL 18/18 2x24 Vac: FL 18/24*	2x5 Vac: FL 24/5 2x6 Vac: FL 24/6 2x8 Vac: FL 24/8 2x9 Vac: FL 24/9 2x12 Vac: FL 24/12 2x15 Vac: FL 24/15 2x18 Vac: FL 24/18 2x24 Vac: FL 24/24*	2x5 Vac: FL 30/5 2x6 Vac: FL 30/6 2x8 Vac: FL 30/8 2x9 Vac: FL 30/9 2x12 Vac: FL 30/12 2x15 Vac: FL 30/15 2x18 Vac: FL 30/18 2x24 Vac: FL 30/24**	2x5 Vac: FL 42/5 2x6 Vac: FL 42/6 2x8 Vac: FL 42/8 2x9 Vac: FL 42/9 2x12 Vac: FL 42/12 2x15 Vac: FL 42/15 2x18 Vac: FL 42/18 2x24 Vac: FL 42/24**	2x5 Vac: FL 52/5 2x6 Vac: FL 52/6 2x8 Vac: FL 52/8 2x9 Vac: FL 52/9 2x12 Vac: FL 52/12 2x15 Vac: FL 52/15 2x18 Vac: FL 52/18 2x24 Vac: FL 52/24**
	Rated Power	18 VA	24 VA	30 VA	42 VA	52 VA
	No-load voltage (app. x factor)	1.22	1.20	1.17	1.16	1.12
	No-load loss (typ.)	1.50 W	1.60 W	1.70 W	3.50 W	4.00 W
	Efficiency	77.0 %	77.0 %	81.0 %	81.0 %	81.0 %
Standards						
Classification		Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer **isolating transformer (without VDE mark)	Safety isolating transformer **isolating transformer (without VDE mark)	Safety isolating transformer **isolating transformer (without VDE mark)
Approvals						
Approvals		cURus, VDE	cURus, VDE	cURus, VDE	cURus, VDE	cURus, VDE
Environment						
Ambient temperature max.		40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type		Encapsulated	Encapsulated	Encapsulated	Encapsulated	Encapsulated
Insulation class		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
Safety class (prepared)		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
Order numbers						
Order Number		see rated output voltage	see rated output voltage	see rated output voltage	see rated output voltage	see rated output voltage

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Mechanical data	30 mm	Type	Terminals	Core type	Weight	Dimension picture (in mm)															
							A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
FL 2/..		Pins for PCB	UI 30/5,5	0.12 kg		53	44	17.6	47.5	37.5	35	9	4.5	10	15	25	5	0.8	-	-	2.5
FL 4/..		Pins for PCB	UI 30/7,5	0.15 kg		53	44	19.6	47.5	37.5	35	9	4.5	10	15	25	5	0.8	-	-	2.5
FL 6/..		Pins for PCB	UI 30/10,5	0.18 kg		53	44	22.6	47.5	37.5	35	9	4.5	10	15	25	5	0.8	-	-	2.5
FL 8/..		Pins for PCB	UI 30/16,5	0.25 kg		53	44	28.6	47.5	37.5	35	9	4.5	10	15	25	5	0.8	-	-	2.5
FL 10/..		Pins for PCB	UI 39/8	0.28 kg		68	57	22.8	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
FL 14/..		Pins for PCB	UI 39/10,2	0.32 kg		68	57	24.4	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
FL 18/..		Pins for PCB	UI 39/13,5	0.38 kg		68	57	27.6	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
FL 24/..		Pins for PCB	UI 39/17	0.45 kg		68	57	31.4	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
FL 30/..		Pins for PCB	UI 39/21	0.53 kg		68	57	35.8	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
FL 42/..		Pins for PCB	UI 48/17	0.72 kg		83.5	70	39	75	60	53.5	15	6.5	15	27	37	10	-	0.5	1	3.1
FL 52/..		Pins for PCB	UI 48/26	0.98 kg		86.5	70	49	75	60	53.5	16.5	6.5	15	27	37	10	-	0.5	1	3.1

Dimension pictures

