

Short-circuit proof low profile transformer FLD



General Data

Rated input voltage 2 x 115 Vac
Rated output voltage 2 x 6 - 2 x 18 Vac
Rated power 4 - 48 VA
Insulation class E
Maximum ambient temperature 40 °C
Efficiency up to 79 %
Degree of protection IP 00

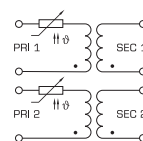
Advantages

Minimum size at high output
Low height
Integrated overload protection using PTC in the input
Double input voltage for series or parallel connection
Double output voltage for series or parallel connection
Permanent corrosion protection, high insulation value and maximum electrical reliability thanks to XtraDensiFill resin encapsulation
Self-extinguishing potting material

Applications

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.

Circuit Diagram



Standards

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

Approvals



VDE (EN 61347)

1 Transformers

Low profile transformers



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FLD

Electrical data	Typ	FLD 48/..
	Input	
	Rated input voltage	2 x 115 Vac
	Rated frequency	50 - 60 Hz
	Output	
	Rated output voltage: Order no.	2x6 Vac: FLD 48/6 2x8 Vac: FLD 48/8 2x9 Vac: FLD 48/9 2x12 Vac: FLD 48/12 2x15 Vac: FLD 48/15 2x18 Vac: FLD 48/18
	Rated Power	48 VA
	No-load voltage (app. x factor)	1.20
	No-load loss (typ.)	4.50 W
	Efficiency	79.0 %
Standards		
Classification		Safety isolating transformer
Approvals		
Approvals		ENEC 10 (VDE)
Environment		
Ambient temperature max.		40 °C
Safety and protection		
Type		Encapsulated
Insulation class		E
Protection index		IP 00
Safety class (prepared)		II
Short circuit strength		non-inherently short-circuit proof
Order numbers		
Order Number		see rated output voltage

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Mechanical data	30																					
		Type	Terminals	Core type	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		FLD 4/..	Pins for printed circuit boards	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
		FLD 6/..	Pins for printed circuit boards	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
		FLD 12/..	Pins for printed circuit boards	UI 39/13,5	0.37 kg		68	57	27.6	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
		FLD 18/..	Pins for printed circuit boards	UI 39/17,0	0.45 kg		68	57	31.4	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
		FLD 24/..	Pins for printed circuit boards	UI 39/21,0	0.53 kg		68	57	35.8	62.5	50	45	11.5	5.5	15	16	26	10	0.8	-	-	2.5
		FLD 35/..	Pins for printed circuit boards	UI 48/17,0	0.74 kg		83.5	70	39	75	60	53.5	15	6.5	15	27	37	10	-	0.5	1	3
		FLD 48/..	Pins for printed circuit boards	UI 48/26,0	1.02 kg		86.5	70	49	75	60	53	17	6.5	15	27	37	10	-	0.5	1	3

Dimension pictures

