



Low profile transformer FL



Typ	FL 2/..	FL 4/..	FL 6/..	FL 8/..	FL 10/..	FL 14/..
Electrical data						
Input						
Rated input voltage	2 x 115 Vac	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	50 - 60 Hz
Output						
Rated output voltage: Order no.	2x5 Vac: FL 2/5 2x6 Vac: FL 2/6 2x8 Vac: FL 2/8 2x9 Vac: FL 2/9 2x12 Vac: FL 2/12 2x15 Vac: FL 2/15 2x24 Vac: FL 2/24*	2x6 Vac: FL 4/6 2x8 Vac: FL 4/8 2x9 Vac: FL 4/9 2x12 Vac: FL 4/12 2x15 Vac: FL 4/15 2x18 Vac: FL 4/18 2x24 Vac: FL 4/24*	2x5 Vac: FL 6/5 2x6 Vac: FL 6/6 2x8 Vac: FL 6/8 2x9 Vac: FL 6/9 2x12 Vac: FL 6/12 2x15 Vac: FL 6/15 2x18 Vac: FL 6/18 2x24 Vac: FL 6/24*	2x6 Vac: FL 8/6 2x8 Vac: FL 8/8 2x9 Vac: FL 8/9 2x12 Vac: FL 8/12 2x15 Vac: FL 8/15 2x18 Vac: FL 8/18 2x24 Vac: FL 8/24*	2x5 Vac: FL 10/5 2x6 Vac: FL 10/6 2x8 Vac: FL 10/8 2x9 Vac: FL 10/9 2x12 Vac: FL 10/12 2x15 Vac: FL 10/15 2x18 Vac: FL 10/18 2x24 Vac: FL 10/24*	2x5 Vac: FL 14/5 2x6 Vac: FL 14/6 2x8 Vac: FL 14/8 2x9 Vac: FL 14/9 2x12 Vac: FL 14/12 2x15 Vac: FL 14/15 2x18 Vac: FL 14/18 2x24 Vac: FL 14/24*
Rated Power	2 VA	4 VA	6 VA	8 VA	10 VA	14 VA
No-load voltage (app. x factor)	1.35	1.35	1.35	1.22	1.32	1.28
No-load loss (typ.)	0.60 W	0.90 W	1.20 W	1.30 W	1.10 W	1.20 W
Efficiency	66.0 %	66.0 %	69.0 %	76.0 %	72.0 %	74.0 %
Standards						
Classification	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)	Safety isolating transformer *Mains transformer (without VDE mark)
Approvals						
Approvals	cURus, VDE	cURus, VDE	cURus, VDE	cURus, VDE	cURus, VDE	cURus, 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
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	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-short-circuit proof	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	see rated output voltage

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2

1 Transformers

Low profile transformers



Low profile transformer FL



Typ	FL 18/..	FL 24/..	FL 30/..	FL 42/..	FL 52/..
Electrical data					
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

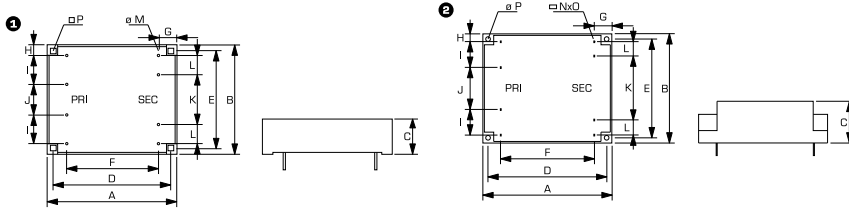


Low profile transformer FL



Typ	Terminals	Core type	Weight	Dimension picture (in mm)	Dimension picture (in mm)															
					A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
FL 2/..	Pins for PCB	UI 30/5,5	0.12 kg	1	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	1	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	1	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	1	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	1	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	1	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	1	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	1	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	1	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	2	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	2	86.5	70	49	75	60	53.5	16.5	6.5	15	27	37	10	-	0.5	1	3.1

Dimension pictures



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