

Single-Phase Transformers

4FL, 4FK Voltage Regulators

4FK voltage regulators, magnetic type

Overview



4FK31 to 4FK34 (figure on the left) and 4FK35 to 4FK38 (figure on the right)

- According to EN 61558-2-12
- With sinusoidal output voltage
- Settling time 40 ms
- **CE**
- $t_a = 40\text{ °C}$



Application

The 4FK magnetic-type voltage regulators are used for loads that are supplied with alternating voltage and that are particularly sensitive to voltage variations.

Selection and ordering data



Rated power P_n	Rated voltage PRI/SEC	Degree of protection, version	Control accuracy in input voltage range		PRI fuse external, gL/gG opera- tional class	Distortion factor at P_n and U_{1N}	DT ¹⁾	Order No. or Order No. stem ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	V		% From + 10 % to – 10 %	% From + 10 % to – 20 %	A	%							kg	kg
Adapted to rated frequency 50 Hz and p.f. = 1 ³⁾														
0.12	230/230	IP65, resin- enclosed $t_a = 40\text{ °C/E}$	± 1.5	± 2	4	< 4	B	4FK31 10-0AL10		1	1 unit	114	1.700	9.000
0.25			± 1	± 2	6	< 3	B	4FK32 10-0AL10		1	1 unit	114	4.600	15.000
0.5					6		B	4FK33 10-0AL10		1	1 unit	114	6.000	21.000
0.75					10		B	4FK34 10-0AL10		1	1 unit	114	8.000	27.000
1		IP20, sheet-steel enclosure $t_a = 40\text{ °C/B}$	± 1	± 2	10	< 3	B	4FK35 10-0AG10		1	1 unit	114	9.600	32.000
1.5					16		B	4FK36 10-0AG10		1	1 unit	114	14.000	42.000
2					16		B	4FK37 10-0AG10		1	1 unit	114	18.000	52.000
2.5					20		B	4FK38 10-0AG10		1	1 unit	114	22.000	68.000
3.15	400/230	IP21, sheet-steel enclosure $t_a = 40\text{ °C/F}$	± 1	± 2	16	< 3	B	4FK39 10-1AN10		1	1 unit	114	26.000	95.000
4					20		B	4FK40 10-1AN10		1	1 unit	114	29.000	105.000
5					20		B	4FK41 10-1AN10		1	1 unit	114	35.000	120.000
6.3					35		B	4FK42 10-1AN10		1	1 unit	114	48.000	145.000
10					63		B	4FK44 10-1AN10		1	1 unit	114	74.000	210.000
With selectable input and output voltages														
Adapted to rated frequency 50 Hz or 60 Hz and p.f. = 1 to p.f. = 0.5 ⁴⁾														
0.12	select- able from 110 to 500	IP65, resin- enclosed $t_a = 40\text{ °C/E}$	± 1.5	± 2	--	< 4	B	4FK31		1	1 unit	114	1.700	9.000
0.25			± 1	± 2	--	< 3	B	4FK32		1	1 unit	114	4.600	15.000
0.5							B	4FK33		1	1 unit	114	6.000	21.000
0.75							B	4FK34		1	1 unit	114	8.000	27.000
1		IP20, sheet-steel enclosure $t_a = 40\text{ °C/B}$	± 1	± 2	--	< 3	B	4FK35		1	1 unit	114	9.600	32.000
1.5							B	4FK36		1	1 unit	114	14.000	42.000
2							B	4FK37		1	1 unit	114	18.000	52.000
2.5							B	4FK38		1	1 unit	114	22.000	68.000
3.15		IP21, sheet-steel enclosure $t_a = 40\text{ °C/F}$	± 1	± 2	--	< 3	B	4FK39		1	1 unit	114	26.000	95.000
4							B	4FK40		1	1 unit	114	29.000	105.000
5							B	4FK41		1	1 unit	114	35.000	120.000
6.3							B	4FK42		1	1 unit	114	48.000	145.000
10							B	4FK44		1	1 unit	114	74.000	210.000

¹⁾ The delivery time class B depends on the quantity.

²⁾ The Order No. stem is completed to the full order number when placing an order (inquiry/order address, see page 10/4).

³⁾ The units in the performance range 3.15 kVA to 10 kVA have an additional connection for p.f. = 0.8.

⁴⁾ Adjustment for only one p.f. value of 1 to 0.5 is possible.