

Autotransformer AIM



General Data

Rated input voltage 115/220/230/240 Vac

Rated output voltage 115/220/230/240 Vac

Rated output current 0.8 - 16 A

Insulation class A or B

Maximum ambient temperature 40 °C

Degree of protection IP 20

Advantages

Low weight and small size (compared to isolating transformers)

Integrated short circuit and overload protection

Very high efficiency

Very good moisture protection and low noise thanks to XtraDenseFill resin encapsulation (AIM 1.8/8 - AIM 5.0/2.5)

Screw terminals under cover with strain relief

Applications

Autotransformer for adjustment of the voltage on the input and output sides with no requirement for electrical isolation.

Standards



Autotransformer
to: VDE 0570 Part 2-13, DIN EN 61558-2-13, EN 61558-2-13,
IEC 61558-2-13



Autotransformer AIM

Type		AIM 1,6/0,8	AIM 3,2/1,6	AIM 5,0/2,5	AIM 10/5	AIM 16/8
Electrical data	Input					
	Rated input Voltage	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac
	Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
	Output					
	Rated output voltage	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac	115 Vac/220 Vac 230 Vac/240 Vac
Rated output voltage	0.80 (PRI 115 / SEC 220, 230, 240); 1.60 (PRI 115 / SEC 115); 1.60 (PRI 220, 230, 240 / SEC 115, 220, 230, 240)	1.60 (PRI 115 / SEC 220, 230, 240); 3.20 (PRI 115 / SEC 115); 3.20 (PRI 220, 230, 240 / SEC 115, 220, 230, 240)	2.50 (PRI 115 / SEC 220, 230, 240); 5.00 (PRI 115 / SEC 115); 5.00 (PRI 220, 230, 240 / SEC 115, 220, 230, 240)	5.00 (PRI 115 / SEC 220, 230, 240); 10.00 (PRI 115 / SEC 115); 10.00 (PRI 220, 230, 240 / SEC 115, 220, 230, 240)	8.00 (PRI 115 / SEC 220, 230, 240); 16.00 (PRI 115 / SEC 115); 16.00 (PRI 220, 230, 240 / SEC 115, 220, 230, 240)	
No-load loss (typ.)	4.70 W	6.70 W	11.80 W	18.00 W	21.00 W	
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	
Safety and protection						
Type	Resin encapsulated transformer	Resin encapsulated transformer	Resin encapsulated transformer	enclosed	enclosed	
Class of Insulation System	A	A	A	B	B	
Protection index	IP 20	IP 20	IP 20	IP 20	IP 20	
Safety class	May be used in protection category I and II. When protection category I devices are equipped the protective conductor in the output must be connected with the lead-in protective conductor.	May be used in protection category I and II. When protection category I devices are equipped the protective conductor in the output must be connected with the lead-in protective conductor.	May be used in protection category I and II. When protection category I devices are equipped the protective conductor in the output must be connected with the lead-in protective conductor.	I	I	
Short circuit strength	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	non-inherently short-circuit proof	
Order numbers						
Order Number	AIM 1,6/0,8	AIM 3,2/1,6	AIM 5,0/2,5	AIM 10/5	AIM 16/8	
Mechanical data	Terminal and mounting					
	Terminals	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
	Fixing method	Fixing holes in the terminal connection compartment	Fixing holes in the terminal connection compartment	Fixing holes in the terminal connection compartment	Fixing holes in the housing	Fixing holes in the housing
	Measures and weights					
	Weight	2.10 kg	3.60 kg	5.00 kg	12.10 kg	16.50 kg
	Dimension picture (in mm)	1	2	2	3	3
	A	142	167	167	283	283
	B	58	76	76	200	200
	C	77	117	117	166	165
	D	135	43	43	245	245
E	4.3	14	14	148	148	
F	65	77	100	-	-	
G	76	97	117	-	-	
H	90	97	97	-	-	
I	166	223	223	-	-	

Dimension pictures

