

## 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

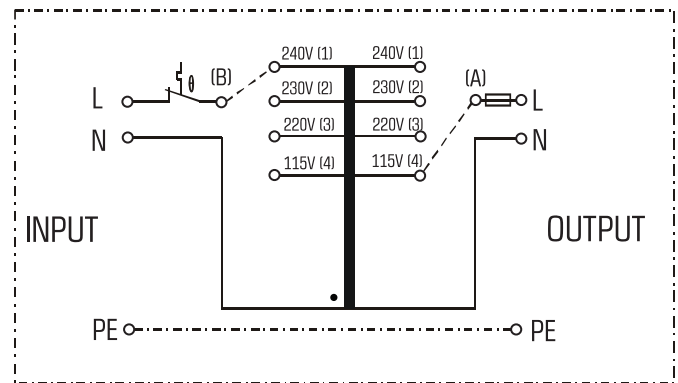
### Advantages

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.

### Sample application



### Standards

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

### Approvals

# 1 Transformers Autotransformers



## Autotransformer AIM

Typ	AIM 1,6/0,8	AIM 3,2/1,6	AIM 5,0/2,5	AIM 10/5	AIM 16/8
<b>Electrical data</b>					
<b>Input</b>					
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
<b>Output</b>					
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 current	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
<b>Environment</b>					
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C
<b>Safety and protection</b>					
Type	Resin encapsulated transformer	Resin encapsulated transformer	Resin encapsulated transformer	Enclosed	Enclosed
Insulation class	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
--------------	-------------	-------------	-------------	----------	----------

Order Number	AIM 1,6/0,8	AIM 3,2/1,6	AIM 5,0/2,5	AIM 10/5	AIM 16/8
<b>Mechanical data</b>					
<b>Terminal and mounting</b>					
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
<b>Measures and weights</b>					
Weight	2,1 kg	3,6 kg	5,0 kg	12,1 kg	16,5 kg
Dimension picture (in mm)	1	2	2	3	3
A	14,2	167	167	283	283
B	58	76	76	200	200
C	77	117	117	166	165
D	135	4,3	4,3	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

