

# Isolating transformers, UL-approved

## Type SUL

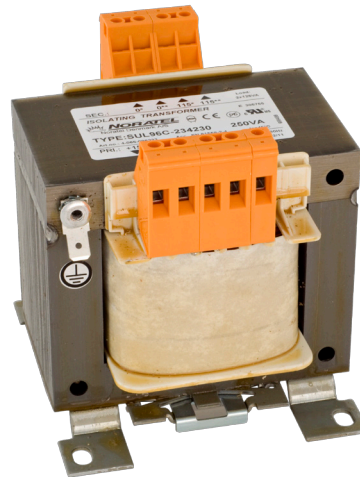
Open single-phase isolating-/control-transformer with separate insulated windings and protected against dust, humidity and corrosion through complete impregnation in heat tempered varnish. UL-approved and produced according to DNV, Lloyds register of shipping and Bureau Veritas regulations which include 45°C ambient temperature. Compact design, fixed installation, easy mounting in cabinets or switchboards.

### Applications:

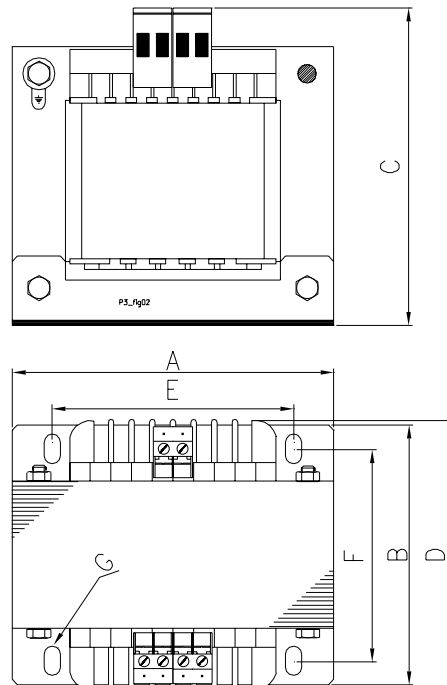
Industrial isolating-/control-transformer suitable for installation which require protective separation between input and output. SUL84A, SUL84B, SUL96C & SUL96C can be mounted on 35mm DIN-rail. The transformer must be protected against overload and short circuit in the installation.

### Technical specifications

- Input voltage: 230-400 V ± 15 V
- Frequency: 47-63 Hz
- Output voltage: 2x 115 V
- According to: EN61558, UL506, UL file no. E305755
- Test voltage: 4,5 kV AC RMS
- Construction class: I
- Insulation class: IEC - B (130°C)  
UL - class A (105°C)
- Ambient temp. (t<sub>a</sub>): 45°C
- Degree of protection: IP00



Dimensions



Type	IEC Power	UL Power	Dimensions (AxBxC)	Weight	Art. no.	EAN no.
<b>0-215-230-385-400-415 V / 2x115 V</b>						
SUL84A-234230	63 VA	63 VA	84x86x98 mm	1,4 kg	4-065-084230	5703451013890
SUL84B-234230	100 VA	100 VA	84x86x98 mm	1,9 kg	4-065-084231	5703451013906
SUL96B-234230	160 VA	160 VA	96x102x106 mm	2,8 kg	4-065-096232	5703451013913
SUL96C-234230	250 VA	200 VA	96x102x106 mm	3,5 kg	4-065-096233	5703451013920
SUL120A-234230	320 VA	250 VA	120x86x120 mm	4,2 kg	4-065-120234	5703451013937
SUL120B-234230	400 VA	320 VA	120x98x120 mm	5,1 kg	4-065-120235	5703451013944
SUL120C-234230	500 VA	400 VA	120x117x120 mm	6,6 kg	4-065-120236	5703451013951
SUL150A-234230	630 VA	500 VA	103x150x147 mm	8,1 kg	4-065-150237	5703451013968
SUL150B-234230	800 VA	630 VA	150x120x147 mm	9,9 kg	4-065-150238	5703451013975
SUL150C-234230	1000 VA	800 VA	150x147x147 mm	13,3 kg	4-065-150239	5703451013982
SUL192C-234230	1600 VA	1000 VA	192x152x184 mm	22,5 kg	4-065-192240	5703451013999
SUL192D-234230	2000 VA	1600 VA	192x174x184 mm	27,3 kg	4-065-192241	5703451014002
SUL192E-234230	2500 VA	2000 VA	192x180x184 mm	28,7 kg	4-065-192242	5703451014019

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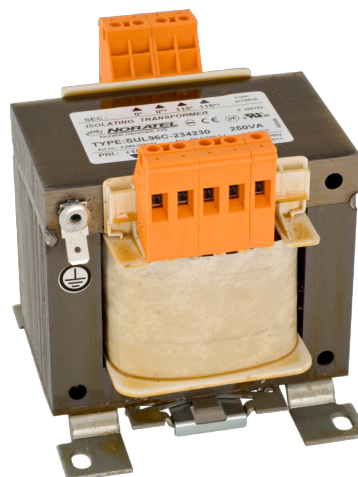
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### Applications:

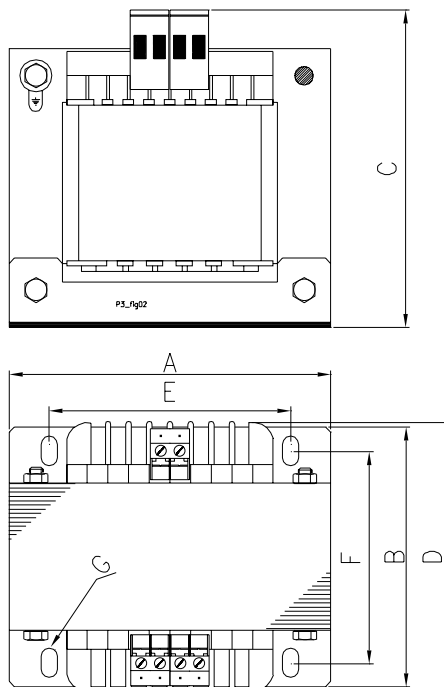
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### Technical specifications

- Input voltage: 400-460 V ±20 V
- Frequency: 47-63Hz
- Output voltage: 2x115V
- According to: EN61558, UL506, UL file no. E305755
- Test voltage: 4,5kV AC RMS
- Construction class: I
- Insulation class: IEC - B (130°C)  
UL - class A (105°C)
- Ambient temp. (t<sub>o</sub>): 45°C
- Degree of protection: IP00



Dimensions



Type	IEC Power	UL Power	Dimensions (AxBxC)	Weight	Art. no.	EAN no.
<b>0-380-400-420-440-460-480 V / 2x115 V</b>						
SUL84A-460230	63 VA	63 VA	84x86x98 mm	1,4 kg	8-065-084063	5703451014439
SUL84B-460230	100 VA	100 VA	84x86x98 mm	1,9 kg	8-065-084100	5703451014446
SUL96B-460230	160 VA	160 VA	96x102x106 mm	2,8 kg	8-065-096160	5703451014453
SUL96C-460230	250 VA	200 VA	96x102x106 mm	3,5 kg	8-065-096250	5703451014460
SUL120A-460230	320 VA	250 VA	120x86x120 mm	4,2 kg	8-065-120320	5703451014477
SUL120B-460230	400 VA	320 VA	120x98x120 mm	5,1 kg	8-065-120400	5703451014484
SUL120C-460230	500 VA	400 VA	120x117x120 mm	6,6 kg	8-065-120500	5703451014491
SUL150A-460230	630 VA	500 VA	103x150x147 mm	8,1 kg	8-065-150630	5703451014507
SUL150B-460230	800 VA	630 VA	150x120x147 mm	9,9 kg	8-065-150800	5703451014514
SUL150C-460230	1000 VA	800 VA	150x147x147 mm	13,3 kg	8-065-150000	5703451014521
SUL192C-460230	1600 VA	1000 VA	192x152x184 mm	22,5 kg	8-065-192160	5703451014927
SUL192D-460230	2000 VA	1600 VA	192x174x184 mm	27,3 kg	8-065-192200	5703451014934
SUL192E-460230	2500 VA	2000 VA	192x180x184 mm	28,7 kg	8-065-192250	5703451014941

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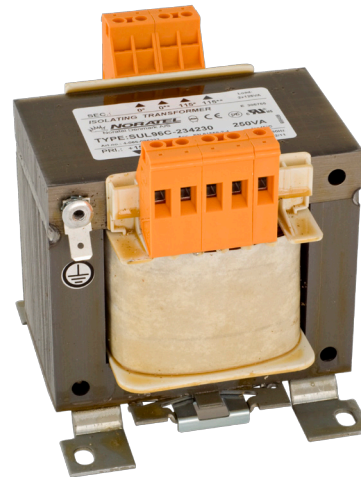
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### Applications:

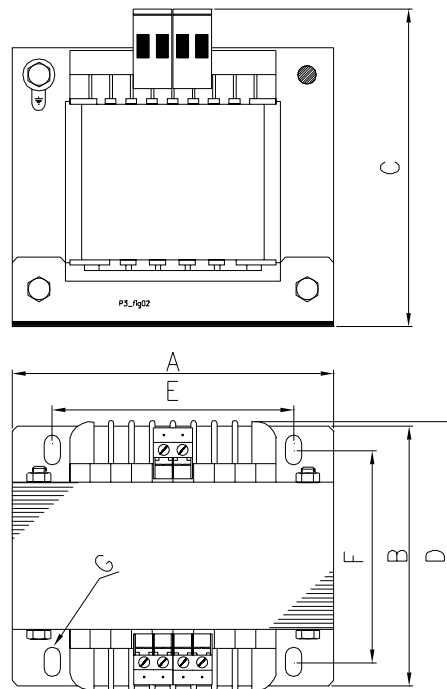
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### Technical specifications

- Input voltage: 500-575 V ±25 V
- Frequency: 47-63Hz
- Output voltage: 2x115V
- According to: EN61558, UL506, UL file no. E305755
- Test voltage: 4,5kV AC RMS
- Construction class: I (kræver jording)
- Insulation class: IEC - B (130°C)  
UL - class A (105°C)
- Ambient temp. (t<sub>o</sub>): 45°C
- Degree of protection: IP00



### Dimensions



### Standard types

Type	IEC Power	UL Power	Dimensions (AxBxC)	Weight	Art. no.	EAN no.
<b>0-475-500-525-550-575-600 V / 2x115 V</b>						
SUL84A-500230	63 VA	63 VA	84x86x98 mm	1,4 kg	8-065-084230	5703451014828
SUL84B-500230	100 VA	100 VA	84x86x98 mm	1,9 kg	8-065-084231	5703451014835
SUL96B-500230	160 VA	160 VA	96x102x106 mm	2,8 kg	8-065-096232	5703451014842
SUL96C-500230	250 VA	200 VA	96x102x106 mm	3,5 kg	8-065-096233	5703451014859
SUL120A-500230	320 VA	250 VA	120x86x120 mm	4,2 kg	8-065-120234	5703451014866
SUL120B-500230	400 VA	320 VA	120x98x120 mm	5,1 kg	8-065-120235	5703451014873
SUL120C-500230	500 VA	400 VA	120x117x120 mm	6,6 kg	8-065-120236	5703451014880
SUL150A-500230	630 VA	500 VA	103x150x147 mm	8,1 kg	8-065-150237	5703451014897
SUL150B-500230	800 VA	630 VA	150x120x147 mm	9,9 kg	8-065-150238	5703451014903
SUL150C-500230	1000 VA	800 VA	150x147x147 mm	13,3 kg	8-065-150239	5703451014910

The SUL series is designed for connection of a wide range of primary voltages.

Connect neutral conductor (N) and phase conductor (P) according to the tables below:

SUL 234 primary connections:

Primary voltage	Terminal				
	+15	0	15	230	400
215 V			N	P	
230 V		N		P	
245 V	N			P	
385 V			N		P
400 V		N			P
415 V	N				P

SUL 460 primary connections:

Primary voltage	Terminal				
	+20	0	20	400	460
380 V			N	P	
400 V		N		P	
420 V	N			P	
440 V			N		P
460 V		N			P
480 V	N				P

SUL 500 primary connections:

Primary voltage	Terminal				
	+25	0	25	500	575
475 V			N	P	
500 V		N		P	
525 V	N			P	
550 V			N		P
575 V		N			P
600 V	N				P

Secondary connections of 115/230V version:

The secondary can be coupled for an output voltage of either 115 V or 230 V.

Connect neutral conductor (N) and phase conductor (P) according to table below:

Secondary voltage	Terminal			
	0*	0**	115V*	115V**
115 V	N	N	P	P
230 V	N	●●	●●	P

For 115 V output, terminals 0\* and 0\*\* must be short circuited, and terminals 115V\* and 115V\*\* must be short circuited.

For 230 V output short circuit these ●● terminals.