

# Control- and safety isolating- resp. isolating transformer

## ST 160/69/23



### Advantages

- Very good switch-on behaviour thanks to reduced starting currents
- High performance for the volume thanks to compact design
- Primary side  $\pm 5\%$  tappings for voltage adjustment
- Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation
- Contact protected screw connection terminals complying with UVV BGV A3
- Simple mounting thanks to robust metal footplate with oval slots

### Applications

As a control transformer for the electrical isolation of the input and output sides. The construction of the transformer to supply control systems according to VDE 0113 is designed.

As an isolating transformer for the safe electrical isolation of the input and output sides. The transformer may be used to set up protective separation as a protective measure in accordance with VDE 0100.

As a safety isolating transformer for the safe electrical isolation of the input and output sides. The transformer is suitable for creating SELV and PELV circuits because of the limit on the output voltage.

### Standards



Isolating transformer  
to: VDE 0570 Part 2-4, DIN EN 61558-2-4, EN 61558-2-4, IEC 61558-2-4  
Control transformer  
to: VDE 0570 Teil 2-2, DIN EN 61558-2-2, EN 61558-2-2, IEC 61558-2-2

### Approvals



## Control- and safety isolating- resp. isolating transformer **ST 160/69/23**

### Electrical data

Type	ST 160/69/23
Input	
Rated input voltage	690 Vac
Tappings Input	±5 %
Rated frequency	50 - 60 Hz
Output	
Rated output voltage	230 Vac
Rated power VDE (DB cos phi=1)	160 VA
Rated power VDE (KB cos phi=0.5)	390 VA
No-load voltage (app. x factor)	1.09
Efficiency	87 %
Standards	
Classification	Control- and isolating transformer
Approvals	
Approvals	-
Environment	
Ambient temperature max.	40 °C
Cooling method	by self-cooling
Safety and protection	
Type	open type
Class of Insulation System	B
Protection index	IP 00
Safety class (prepared)	I
Short circuit strength	non-short-circuit proof
PRI Fusing recommendation by circuit breaker with tripping characteristic type 20 x I <sub>rated</sub> related to set)	
Setting range	0.25 - 0.40 A
Setting value	0.28 A
Order numbers	
Order Number	<b>ST 160/69/23</b>

### Mechanical data

Type	ST 160/69/23
Terminal and mounting	
Terminals	Screw-type terminals, PE 6.3 x 0.8
Fixing method	Base plate
Fixing screws	M5
Measures and weights	
Weight	2.80 kg

