Safety isolating transformer
ST 20/23/12



Picture shows ST 160/23-23

Advantages

- Very good switch-on behaviour thanks to reduced starting currents
- High power density due to a compact construction design
- Primary side ±5 % tappings for voltage adjustment
- Very good corrosion protection and low noise thanks to BLOCK IMPEX vacuum impregnation
- Contact protected screw connection terminals complying with UVV BGV A3
- Simple mounting thanks to robust metal footplate with oval slots

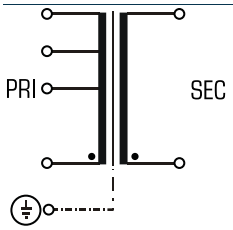
Applications

As a control transformer for the electrical isolation of the input and output sides. The construction of the transformer is designed to supply control systems according to EN 60204.

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.

Sample application



Standards

Safety isolating transformer
to: VDE 0570 Teil 2-6, DIN EN 61558-2-6, EN 61558-2-6, IEC 61558-2-6, UL 5085-1/-2, CSA 22.2 No.66

Approvals

VDE, UL 5085-1/-2, CSA 22.2 No.66

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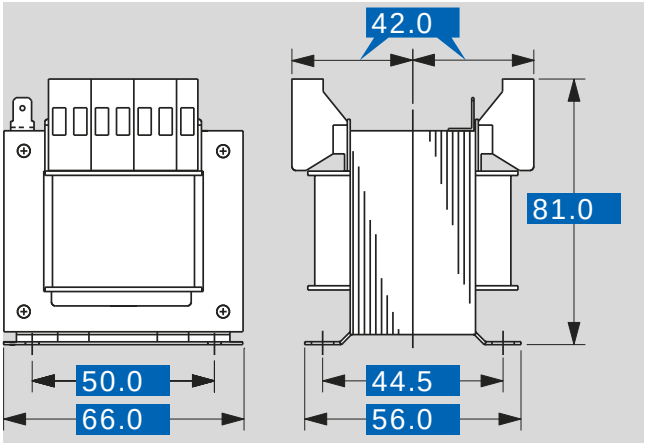
Safety isolating transformer
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Electrical data

Type	ST 20/23/12
Input	
Rated input voltage	230 Vac
Tappings Input	±5 %
Rated frequency	50 - 60 Hz
Output	
Rated output voltage	12 Vac
Rated power VDE (DB cos phi=1)	20 VA
Rated power VDE (KB cos phi=0.5)	42 VA
No-load voltage (app. x factor)	1.10
Efficiency	81.0 %
UL Derating	-
Standards	
Classification	Safety isolating transformer
Approvals	
Approvals	cURus, VDE
Environment	
Ambient temperature max.	40 °C
Type of cooling	self-cooling
Safety and protection	
Type	Open type
Insulation class	VDE=B, UL=class 105
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 Irated related to set)	
Setting range	0.10 - 0.16 A
Setting value	0.11 A
Order numbers	
Order Number	**ST 20/23/12**

Mechanical data

Type	ST 20/23/12
Terminal and mounting	
Fixing method	Base plate
Fixing screws	M4
Terminals Input	Screw clamp, 4 mm²
Terminals Output	Screw clamp, 4 mm²
Terminals PE	Tab connector, 6.3 x 0.8 mm
Measures and weights	
Weight	0.70 kg



Subject to change.

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