



Power Supply
 Series 8510

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- > Screw fastening version
 - robust
 - vibration resistant
 - reliable
- > Corrosion resistant enclosure material
- > Easily accessible connection terminals enable
 - safe connection
 - einfaceasy installation
- > Modular technology
 - clear arrangement in the Ex e enclosure
 - flexibly expandable for system modifications



14358E00

	ATEX / IECEx / GOST					
Zone	0	1	2	20	21	22
For use in		x	x			

Explosion Protection

Global (IECEx)	
Gas and dust	IECEx BVS 07.0029U Ex d e IIC, Ex d e I
Europe (ATEX)	
Gas and dust	DMT 00 ATEX E 073 U II 2G Ex d e IIC IM2 Ex d e I
Certifications and certificates	
Certificates	ATEX, IECEx, Belarus (operating authorisation)

Selection Table

Version	Circuit diagram	Input voltage	Output current	Order number	Weight kg
Power supply 24 V DC	<p>15086E00</p>	100 ... 240 V AC	2.1 A	8510 / 122-30-200-030	2.600
		100 ... 240 V AC	1.3 A	8510 / 131-30-300-030	2.600
		100 ... 120 V AC	3.0 A	8510 / 132-30-100-010	2.600
		220 ... 240 V AC	3.0 A	8510 / 132-30-100-020	2.600
		100 ... 240 V AC	2.5 A	8510 / 132-30-400-030	2.500

WebCode 8510Y

E9

Power Supply

Series 8510

Technical Data

Electrical data

Version	8510/132-30-100-010	8510/132-30-100-020
Output voltage	24 V DC	24 V DC
Output current	3.0 A	3.0 A
Input voltage	100 ... 120 V AC	220 ... 240 V AC
Input current	1.6 A (100 A AC)	1.6 A (100 A AC)
Rated operating frequency	50 ... 60 Hz	50 ... 60 Hz
Starting current limitation	NTC	NTC
Integrated back-up fuse	Yes	Yes
Recommended MCB (IEC 898) in the power supply line	B10 A or C6 A	B10 A or C6 A
Residual ripple	< 50 m Vpp (at 20 MHz / 50 Ω)	< 50 m Vpp (at 20 MHz / 50 Ω)
Efficiency	90.6% (120 V)	91.5% (230 V)
Power dissipation	7.5 W (120 V)	6.7 W (230 V)
Electrical isolation primary / secondary	SELV	SELV

Ambient conditions

Ambient temperature		
Storage	-25 ... +85 °C	-25 ... +85 °C
Operation at Uc	-10 ... +40 °C	-10 ... +40 °C

Electrical data

Version	8510/122-30-200-030	8510/131-30-300-030
Output voltage	24 V DC	24 V DC
Output current	2.1 A	1.3 A
Input voltage	100 ... 240 V AC	100 ... 240 V AC
Input current	1.0 A (100 A AC)	0.7 ... 0.5 A
Rated operating frequency	50 ... 60 Hz	50 ... 60 Hz
Starting current limitation	NTC	< 35 A (25 °C)
Integrated back-up fuse	Yes	Yes
Recommended MCB (IEC 898) in the power supply line	B 10 A	B16 A or C10 A
Residual ripple	< 50 m Vpp (at 20 MHz / 50 Ω)	< 200 m Vpp (ty. 10 Vpp)
Efficiency	88.4 / 89.0% (120 / 230 V)	approx. 7 W
Power dissipation	6.6 / 6.2 W (120 / 230 V)	approx. 7 W
Electrical isolation primary / secondary	SELV	Yes, SELV output voltage Ua according to EN 60950 and EN 60079-15

Ambient conditions

Ambient temperature		
Storage	-25 ... +85 °C	-40 ... +70 °C
Operation at Uc	-10 ... +40 °C	-20 ... +40 °C

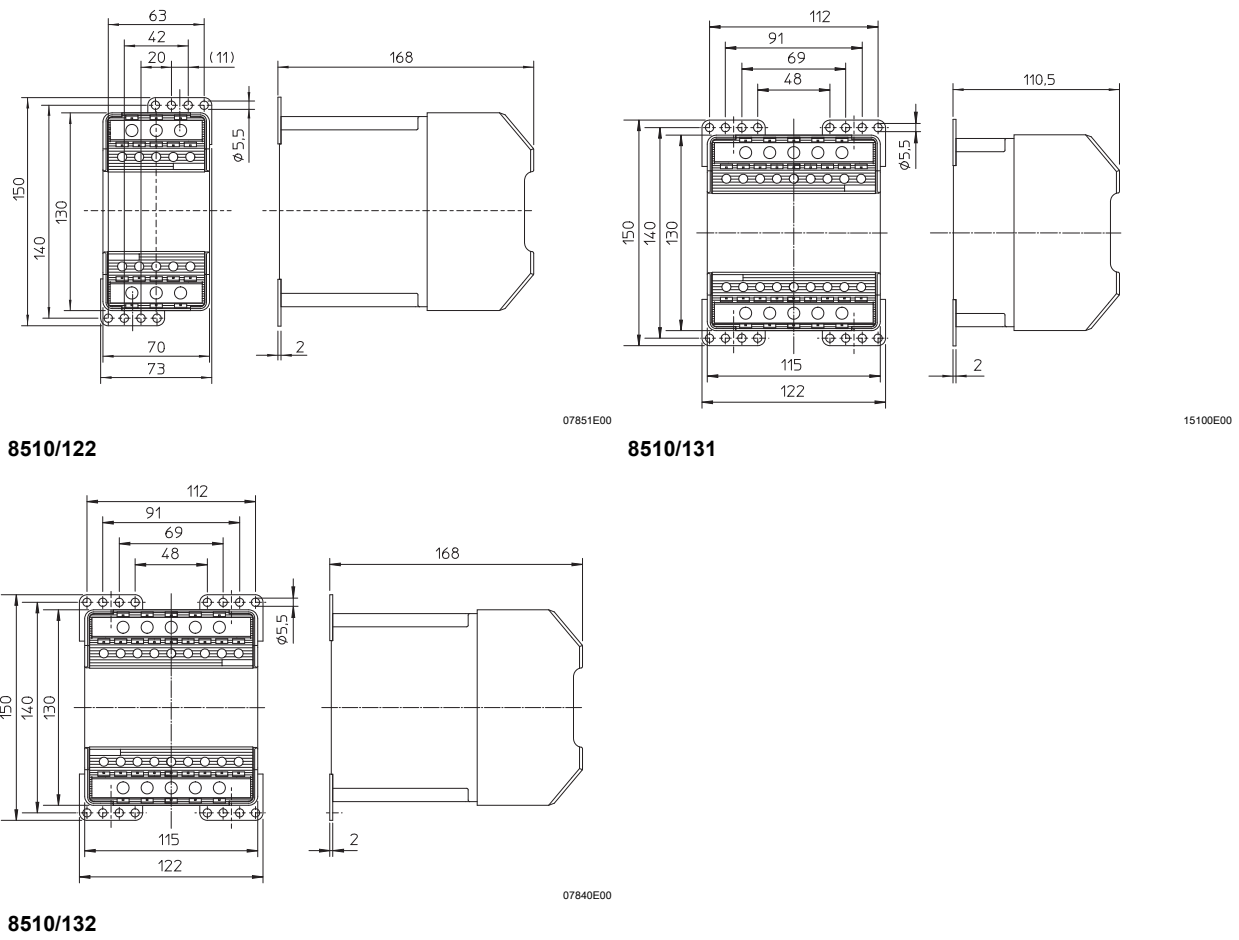
Electrical data

Version	8510/132-30-400-030
Output voltage	24 V DC
Output current	2.5 A
Input voltage	100 ... 240 V AC
Input current	1.05 / 0.66 A AC (120 / 230 V)
Rated operating frequency	50 ... 60 Hz
Starting current limitation	6 A (40 °C)
Integrated back-up fuse	Yes
Recommended MCB (IEC 898) in the power supply line	B10 A or C6 A
Residual ripple	< 50 m Vpp (at 20 MHz / 50 Ω)
Efficiency	88.5 / 90.4% AC (120 / 230 V)
Power dissipation	7.8 / 6.4 W (120 / 230 V)
Electrical isolation primary / secondary	SELV

Ambient conditions	
Version	8510/132-30-400-030
Ambient temperature	
Storage	-25 ... +85 °C
Operation at Uc	-20 ... +40 °C

Technical Data	
Mechanical data	
Conductor cross-section	
Main contacts	1.5 ... 6 mm ² finely stranded 1.5 ... 10 mm ² solid
Material	
Enclosure material	Epoxy resin
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC/EN 60529

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.