

Saftey isolating transformer type PST100



CE - compliant

- Output separated according to VDE0551
- Extra low safety potential
PELV (EN 60204), SELV (EN 60950)
- Overload- and open-circuit protected,
short circuit proof
- Parallel connection possible
- Suitable for the tropics - Epoxy resin casted
- Safety acc. to VDE, EN, UL and CSA

Technical data

Input data	
Input voltage AC	115V _{AC} / 230 V _{AC} (45-66 Hz)
Input voltage tolerance	-15% to +15%
Input current at nominal load	at 115 V _{AC} max. 1,0 A / at 230 V _{AC} max. 0,5 A
Input current peak	-
Protective circuit	-
Hold-up time	-
Output data	
Output voltage U _{nominal}	see table as below
Output current I _{nominal}	see table as below
Current limiting	-
Residual ripple (20MHz)	-
Control data	
Control deviation load	-
Control deviation supply	-
Control time	-
Operating data	
Duty circle	100%
Operating temperature range	-40°C to +70°C
Derating	from 40°C
Storage temperature range	-40°C to +105°C
Cooling	selfcooling recommended respective distance 15 mm each
Safety devices	
Input fuse	at 115V _{AC} 2,0 A delayed / at 230V _{AC} 1,0 A delayed
Output fuse	not necessary, short circuit proof
Overload protection	integrated into device
MTBF	>400.000 h
Safety data	
Test voltage transformer	5 kV _{AC} according to VDE 0551
High voltage resistance	primary- / secondary circuit 3,75 kV _{AC} acc. to VDE
Degree of EMI suppression	-
Protection class	class 2
Extra low safety potential	PELV (EN60204), SELV (EN 60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical atmosphere
Protection class enclosure	IP 65
Protection class terminals	IP 20 (BGV A3)
Vibration proof	>30g at 33Hz in X,Y and Z, acc. to IEC 60068-2-27
Applied design specifications	
according to VDE	VDE 0100,0110,0113,0551,0570 Teil 2-2,2-4,2-6
IEC	IEC 61558-2-2, IEC 61558-2-4 IEC 61558-2-6
EN	EN60950, EN61558-2-2 EN61558-2-4, EN61558-2-6
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL506, UL1950
Mechanical data	
Mounting	on rails acc. to DIN 46277 or wall mounting with screws

Type	PST10012	PST10024
Order number	582648	582649
Nominal output voltage	12 V _{AC}	24 V _{AC}
Nominal output current	8,0 A	4,0 A
Power at cos φ = 1,0	105 VA	105 VA
Power at cos φ = 0,5	210 VA	210 VA
Efficiency	88%	88%
Dimensions (W x H x D)	64x100x120	64x100x120
Weight	approx. 2,00kg	approx. 2,00kg



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