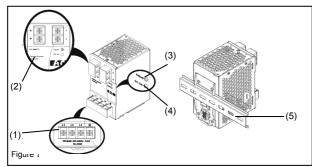
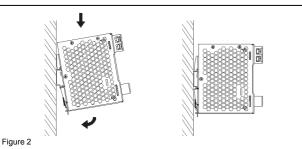
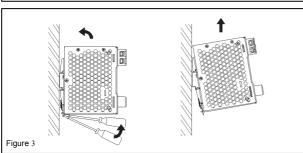


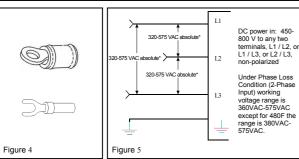
Installation Instructions for PSG120F POWER SUPPLY

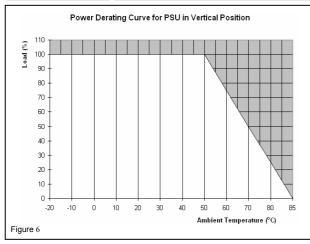
# READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.











# 1. Safety instructions

- Switch main power off and wait 5 minutes before making any connection or disconnection on the device. Danger of explosion!
- Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.
- For sufficient convection cooling keep a distance of 50 mm above and below the device as well as a lateral distance of 20 mm to other units.
- The enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
- Do not introduce any objects into the unit!

- Device description (Fig. 1)
   (1) Input terminal block connector
  - (2) Output terminal block connector
  - (3) DC voltage adjustment potentiometer
  - DC OK control LED (green)
  - (5) Universal mounting rail system

# 3. Mounting (Fig. 2)

The power supply unit can be mounted on 35 mm DIN rails in accordance with EN 60715. The device should be installed horizontally with input terminal blocks on the bottom. Each device is delivered ready to install

Snap on the DIN rail as shown in Fig. 2:

- 1. Tilt the unit slightly upwards and put it onto the DIN rail.
- 2. Push downwards until stopped.
- 3. Press against the bottom front side for locking.
- 4. Shake the unit slightly to ensure that it is secured.

# 4. Removal (Fig. 3)

To uninstall, pull or slide down the latch as shown in Fig. 3. Then, slide the PSU in the opposite direction, release the latch and pull out the PSU from the rail.

### 5. Connection

The terminal block connectors allow easy and fast wiring. A plastic cover provides the necessary isolation of the electric connection.

Use flexible (stranded wire) or solid cables 0.82-8.4 mm<sup>2</sup> (AWG 18-8) and torque of 1.18-1.57 Nm (10.41-13.89 lb in). The insulation stripping length should be 7 mm In accordance to EN 60950 / UL 60950, flexible cables require ferrules. Use copper wire that is designed to sustain operating temperature of 75°C or more to fulfill UL requirements.

For stranded wires it is recommended to use suitable lug to crimp wires (See Fig. 4).

# 5.1. Input connection (Fig. 1and Fig. 5)

Use L1, L2, L3 and PE connections of input terminal connector (see Fig. 5) to establish the 3 x 400-500 VAC connection.

In the event of a phase failure, unrestricted operation is possible with nominal capacity. The device has an internal fuse. 3 x power circuit-breakers 6 A, 10 A or 16 A are recommended as backup fuses.



The internal fuse must not be replaced by the user. In case of internal defect, Please call 1-877-ETN - CARE

5.2. Output connection (Fig. 1 (2))
Use the "+" and "-" screw connections to establish the 24 VDC connection. The output provides 24 VDC. The output voltage can be adjusted from 22 to 28 VDC on the potentiometer. The green LED DC OK displays correct function of the output (Fig. 1 (4)). The device has a short circuit and overload protection and an over voltage protection limited to 35 VDC

# 5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of a short circuit or over load the output voltage and current collapses ( $I_{O/L}$  or  $I_{S/C}$  is >  $I_{sur}$ (150%)). The secondary voltage is reduced and bounces until short circuit or over load on the secondary side has been removed.

# 5.4. Thermal behavior (Fig. 6)

In the case of ambient temperatures above +50°C, the output capacity has to be reduced by 2.5% per increase in temperature. If the output capacity is not reduced when  $T_{Amb}$  > 50 °C device will run into thermal protection by switching off i.e. device will go in bouncing mode and will recover when ambient temperature is lowered or load is reduced as far as necessary to keep device in working condition.

FOR TECHNICAL ASSISTANCE CALL 1 - 877- ETN - CARE



TECHNICAL DATA FOR PSG120F	
Input (AC)	
	3 x 400-500 VAC
	320-575 VAC (DC input range 450-800 VDC)
	47-63 Hz (0 Hz @ DC input)
	0.5 A @ 400 VAC approx.
	< 30 A @ 400 VAC > 35 ms @ 3 x 400 VAC, > 70 ms @ 3 x 500 VAC
	< 1 sec.
	3.15 AH / 500 V
	3 x circuit breakers 6 A, 10 A or 16 A
	В
11 1911111	< 3.5 mA
Output (DC)	
	24 VDC ± 2 %
	22-28 VDC
	5 A
	2.5 % / K.
	Max. 10,000 μF 18 W
	> 86% @ 3 x 400 VAC, > 85% @ 3 x 500 VAC
	< 50 mV / < 240 mVpp
	With oring diode
General Data	
Type of housing	Aluminium (Al5052)
O .	Green LED DC OK
****	> 500,000 hrs.
	121 mm x 70 mm x 118.5 mm
	0.72 kg Screw connection
	7 mm or use suitable lug to crimp
	-20 °C to +75 °C (> 50 °C derating)
	-25 °C to +85 °C
	< 95 % RH
	10 to 150 Hz, 0.35 mm acc. 50 m / s², single
	amplitude (5 G max.) for 90 min. in each X, Y & Z
Pollution degree	directions, in acc. with IEC 68-2-6
i Poliulion dedree	2
	3K3 according to EN 60721
Climatic class	3K3 according to EN 60721
Climatic class Certification and Standards	
Climatic class  Certification and Standards  Electrical equipments of machines	JEC60204-1 (over voltage category III) EN50178 / IEC62103
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations	IEC60204-1 (over voltage category III)
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark),
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1,
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1,
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC.
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)  UL listed to UL508 CSA to CSA107.1-01 (File no.181564)  DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011 EN61000-3-2 CLASS A Limit
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)  UL listed to UL508 CSA to CSA107.1-01 (File no.181564)  DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011  EN61000-3-2 CLASS A Limit
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Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)  UL listed to UL508 CSA to CSA107.1-01 (File no.181564)  DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024  EN55011  EN61000-3-2 CLASS A Limit
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Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011 EN61000-3-2 CLASS A Limit  Yes  Yes
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011 EN61000-3-2 CLASS A Limit  Yes  VARISTOR
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  ROHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564)  DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024  EN55011  EN61000-3-2 CLASS A Limit  Yes  VARISTOR  I <sub>surge</sub> = 150 % of Po <sub>max</sub> typically
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages	IEC60204-1 (over voltage category III) EN50178 / IEC62103 PELV (EN60204), SELV (EN60950) EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011 EN61000-3-2 CLASS A Limit  Yes  VARISTOR
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages Isolation voltage:	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564)  DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024  EN55011  EN61000-3-2 CLASS A Limit  Yes  VARISTOR  I <sub>surge</sub> = 150 % of Po <sub>max</sub> typically
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages  Isolation voltage: Input / output (type test/routine test)	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark),  UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1,  CB scheme to IEC60950-1,  cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)  UL listed to UL508  CSA to CSA107.1-01 (File no.181564)  DIN 57100-410  In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC.  EN55022,EN61000-3-2,EN61000-3-3, EN55024  EN55011  EN61000-3-2 CLASS A Limit  Yes  VARISTOR  I <sub>surge</sub> = 150 % of Po <sub>max</sub> typically Yes
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages  Isolation voltage:  Input / DE (type test/routine test)  Output / PE (type test/routine test)  Output / PE (type test/routine test)	IEC60204-1 (over voltage category III)
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages  Isolation voltage:  Input / output (type test/routine test)  Input / PE (type test/routine test)  Output / PE (type test/routine test)  Protection degree	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark), UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1, cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564) UL listed to UL508 CSA to CSA107.1-01 (File no.181564) DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC. EN55022,EN61000-3-2,EN61000-3-3, EN55024 EN55011 EN61000-3-2 CLASS A Limit   Yes  VARISTOR  I <sub>surge</sub> = 150 % of Po <sub>max</sub> typically Yes  4 kVAC / 3 kVAC 1.5 kVAC / 1.5 kVAC 1.5 kVAC / 500 VAC  IPX0
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages  Isolation voltage:  Input / output (type test/routine test)  Input / PE (type test/routine test)  Output / PE (type test/routine test)  Protection degree  Safety class	IEC60204-1 (over voltage category III)
Climatic class  Certification and Standards  Electrical equipments of machines  Electronic equipment for use in electrical power installations  Safety entry low voltage  Electrical safety (of information technology equipment)  Industrial control equipment  Protection against electric shock  CE  ITE  Industrial  Limitation of mains harmonic currents  RoHS Compliant  Safety and Protection  Transient surge voltage protection  Current limitation at short-circuits approx.  Surge voltage protection against internal surge voltages  Isolation voltage:  Input / output (type test/routine test)  Input / PE (type test/routine test)  Output / PE (type test/routine test)  Protection degree  Safety class  Shock (in all directions)	IEC60204-1 (over voltage category III)  EN50178 / IEC62103  PELV (EN60204), SELV (EN60950)  EN60950-1 (GS-mark),  UL/C-UL recognized to UL60950-1, CSA C22.2 No. 60950-1,  CB scheme to IEC60950-1,  cCSAus to UL60950-1 and CSA C22.2 No.60950-1 (file no.181564)  UL listed to UL508  CSA to CSA107.1-01 (File no.181564)  DIN 57100-410  In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC.  EN55022,EN61000-3-2,EN61000-3-3, EN55024  EN55011  EN61000-3-2 CLASS A Limit   Ves  VARISTOR  I <sub>surge</sub> = 150 % of Po <sub>max</sub> typically  Yes  4 kVAC / 3 kVAC  1.5 kVAC / 1.5 kVAC  1.5 kVAC / 500 VAC  IPX0