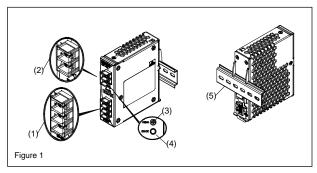
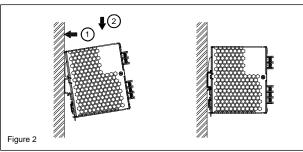
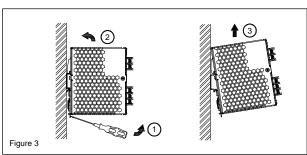


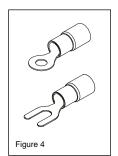
Installation Instructions for PSG60E12SM POWER SUPPLY

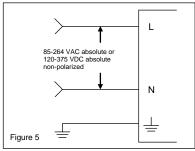
READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

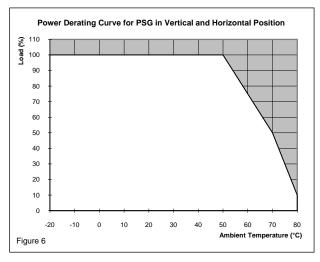












1. Safety instructions

- Switch main power off before connecting or disconnecting the device. Danger of explosion! To guarantee sufficient convection cooling, please keep a distance of 50 mm above and below the device as well as a lateral distance of 20 mm to other units.
- Please note, that the enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
- The main power must be turned off before connecting or disconnecting wires to the terminals!
- Do not introduce any objects into the unit!
- Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.

 To protect against access to live parts, the PSU must be built-in (must be installed in a protective
- The unit must be installed in an IP54 enclosure or cabinet in the final installation
- Warning: Explosion Hazard Substitution of components may impair suitability for Class I, Division 2. Warning: Explosion Hazard Do not disconnect equipment or adjust potentiometer unless the power has been switched off or the area is known to be non-hazardous

CAUTION: "FOR USE IN A CONTROLLED ENVIRONMENT".

- Device description (Fig. 1)
 (1) Input terminal block connector

 - (2) Output terminal block connector
 (3) DC voltage adjustment potentiometer
 (4) DC OK control LED (green)

 - (5) Universal mounting rail system

3. Mounting (Fig. 2)

The power supply unit can be mounting on 35 mm DIN rails in accordance with EN 60715. The device should be installed with input terminal block on the bottom.

Each device is delivered ready to install.

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

- Tilt the unit slight upwards and put it onto the DIN rail.
 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. Dismounting (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.

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

You can use flexible (stranded wire) or solid cables with cross section 0.52-2.1 mm² (AWG 20-14) and torque of 0.78-0.98 Nm (6.94-8.68 lb in). To secure reliable and shock proof connections, the stripping length should not exceed 7 mm.

In accordance to EN 60950 / UL 60950, flexible cables require ferrules.

Use appropriate copper cables that are designed to sustain operating temperature of at least 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. 1, Fig. 5)
Use L, N and PE connections of input terminal connector (see Fig. 1 (1)) to establish the 100-240 VAC

The device has an internal fuse. 6 A, 10 A or 16 A power circuit breakers are recommended as backup



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 12 VDC connection. The output provides 12 VDC. The output voltage can be adjusted from 11 to 14 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 overvoltage protection limited to 17.6 VDC.

5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of a short circuit or overload the output voltage and current collapses ($I_{\rm OL}$ or $I_{\rm SIC}$ is $>I_{\rm surge}$ (150%)). The secondary voltage is reduced and bounces until short circuit or overload 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 degree Celsius increase in temperature, and at +70°C to +80°C, the output capacity has to be reduced by 4% per degree Celsius increase in temperature. If the output capacity is not reduced when T_{Amb} > 50°C, the 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

FOR TECHNICAL ASSISTANCE CALL 1 - 877 - ETN - CARE



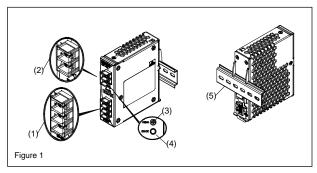
TECHNICAL DATA FOR PSG60E12SM

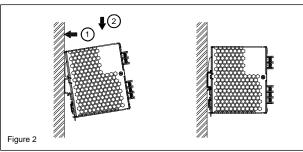
Input (AC) Nominal input voltage / frequency	100-240 VAC / 50-60 Hz
Voltage range	85-264 VAC (DC input range 120-375 VDC)
Frequency	47-63 Hz
Nominal current	< 1.35 A @ 115 VAC, < 0.80 A @ 230 VAC
Inrush current limitation. I²t (+25°C) typ.	< 50 A @ 115 VAC, < 100 A @ 230 VAC
Mains buffering at nominal load (typ.)	> 22 ms @ 115 VAC, > 110 ms @ 230 VAC
Turn-on time	< 2.5 sec.
Internal fuse	T 3.15 AH / 250 V
Recommended backup fuse	6 A, 10 A or 16 A
Power circuit-breaker characteristic	B
Leakage current	< 1 mA @ 240 VAC
Output (DC)	
Nominal output voltage U _N / tolerance	12 VDC ± 2 %
Adjustment range of the voltage	11-14 VDC (maximum power ≤ 60 W)
Nominal current	5 A
Derating	> 50°C (2.5 % / °C), > 70°C (4% / °C)
Startup with capacitive loads	Max. 8,000 μF
Max. power dissipation idling / nominal load approx.	≤ 10.2 W
Efficiency	> 85.5% @ 115 VAC & 230 VAC
Residual ripple / peak switching (20 MHz) (at nominal values)	< 100 mVpp
Parallel operation	With ORing Diode
General Data	······ - ······ - ······ - · · · · · ·
Type of housing	Aluminum
Signals	Green LED DC OK
MTBF	> 300,000 hrs.
Dimensions (L x W x H)	121 mm x 32 mm x 120 mm
Weight	0.33 kg
Connection method	Screw connection
Stripping length	7 mm max. or use suitable lug to crimp
Operating temperature (surrounding air temperature)	-20°C to +80°C (Refer to Fig. 6)
Storage temperature	-25°C to +85°C
Humidity at +25°C, no condensation	< 95% RH
Vibration (non-operating)	10 to 150 Hz, 0.35 mm acc. 50 m/s², single amplitude (5 G max.) for 90 min. in
	each X, Y & Z directions, in acc. with IEC 68-2-6
Shock (in all directions)	30 G (300 m/s²) in all directions according to IEC 68-2-27
Pollution degree	2
Climatic class	3K3 according to EN 60721
Certification and Standards	
Electrical equipments of machines	IEC 60204-1 (over voltage category III)
Electronic equipment for use in electrical power installations	EN 50178 / IEC 62103
Safety entry low voltage	PELV (EN 60204), SELV (EN 60950)
Industrial control equipment	cULus listed to UL 508 and CSA C22.2 No.107.1-01,
1	
	CSA to CSA C22.2 No.107.1-01 (File No. 250468)
Hazardous location	CSA to CSA C22.2 No.107.1-01 (File No. 250468) cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I,
Hazardous location	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)]
Hazardous location Protection against electric shock	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410
	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive
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Protection against electric shock CE ITE Industrial	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 COMPARISON OF THE CONTROL OF THE CONTRO
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Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection Transient surge voltage protection	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR
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.	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Toldon British Count Eq. 250468 Class 1, Div. 2 Group A, B, C, D T4 Yes
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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	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically
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:	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically Yes
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)	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 The control of the control o
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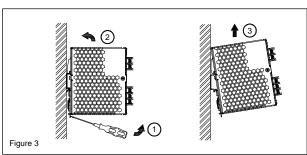


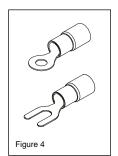
Installation Instructions for PSG60E12SM POWER SUPPLY

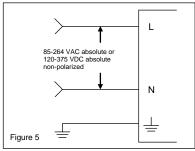
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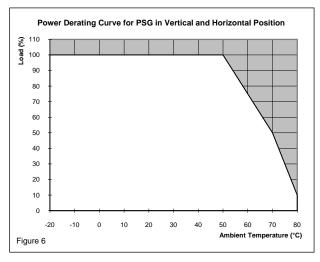












1. Safety instructions

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- Please note, that the enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
- The main power must be turned off before connecting or disconnecting wires to the terminals!
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- Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.

 To protect against access to live parts, the PSU must be built-in (must be installed in a protective
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- Warning: Explosion Hazard Substitution of components may impair suitability for Class I, Division 2. Warning: Explosion Hazard Do not disconnect equipment or adjust potentiometer unless the power has been switched off or the area is known to be non-hazardous

CAUTION: "FOR USE IN A CONTROLLED ENVIRONMENT".

- Device description (Fig. 1)
 (1) Input terminal block connector

 - (2) Output terminal block connector
 (3) DC voltage adjustment potentiometer
 (4) DC OK control LED (green)

 - (5) Universal mounting rail system

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The power supply unit can be mounting on 35 mm DIN rails in accordance with EN 60715. The device should be installed with input terminal block on the bottom.

Each device is delivered ready to install.

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

- Tilt the unit slight upwards and put it onto the DIN rail.
 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. Dismounting (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.

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

You can use flexible (stranded wire) or solid cables with cross section 0.52-2.1 mm² (AWG 20-14) and torque of 0.78-0.98 Nm (6.94-8.68 lb in). To secure reliable and shock proof connections, the stripping length should not exceed 7 mm.

In accordance to EN 60950 / UL 60950, flexible cables require ferrules.

Use appropriate copper cables that are designed to sustain operating temperature of at least 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. 1, Fig. 5)
Use L, N and PE connections of input terminal connector (see Fig. 1 (1)) to establish the 100-240 VAC

The device has an internal fuse. 6 A, 10 A or 16 A power circuit breakers are recommended as backup



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 12 VDC connection. The output provides 12 VDC. The output voltage can be adjusted from 11 to 14 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 overvoltage protection limited to 17.6 VDC.

5.3. Output characteristic curve

The device functions normal under operating line and load conditions. In the event of a short circuit or overload the output voltage and current collapses ($I_{\rm OL}$ or $I_{\rm SIC}$ is $>I_{\rm surge}$ (150%)). The secondary voltage is reduced and bounces until short circuit or overload 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 degree Celsius increase in temperature, and at +70°C to +80°C, the output capacity has to be reduced by 4% per degree Celsius increase in temperature. If the output capacity is not reduced when T_{Amb} > 50°C, the 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

FOR TECHNICAL ASSISTANCE CALL 1 - 877 - ETN - CARE



TECHNICAL DATA FOR PSG60E12SM

Input (AC) Nominal input voltage / frequency	100-240 VAC / 50-60 Hz
Voltage range	85-264 VAC (DC input range 120-375 VDC)
Frequency	47-63 Hz
Nominal current	< 1.35 A @ 115 VAC, < 0.80 A @ 230 VAC
Inrush current limitation. I²t (+25°C) typ.	< 50 A @ 115 VAC, < 100 A @ 230 VAC
Mains buffering at nominal load (typ.)	> 22 ms @ 115 VAC, > 110 ms @ 230 VAC
Turn-on time	< 2.5 sec.
Internal fuse	T 3.15 AH / 250 V
Recommended backup fuse	6 A, 10 A or 16 A
Power circuit-breaker characteristic	B
Leakage current	< 1 mA @ 240 VAC
Output (DC)	
Nominal output voltage U _N / tolerance	12 VDC ± 2 %
Adjustment range of the voltage	11-14 VDC (maximum power ≤ 60 W)
Nominal current	5 A
Derating	> 50°C (2.5 % / °C), > 70°C (4% / °C)
Startup with capacitive loads	Max. 8,000 μF
Max. power dissipation idling / nominal load approx.	≤ 10.2 W
Efficiency	> 85.5% @ 115 VAC & 230 VAC
Residual ripple / peak switching (20 MHz) (at nominal values)	< 100 mVpp
Parallel operation	With ORing Diode
General Data	······ - ······ - ······ - · · · · · ·
Type of housing	Aluminum
Signals	Green LED DC OK
MTBF	> 300,000 hrs.
Dimensions (L x W x H)	121 mm x 32 mm x 120 mm
Weight	0.33 kg
Connection method	Screw connection
Stripping length	7 mm max. or use suitable lug to crimp
Operating temperature (surrounding air temperature)	-20°C to +80°C (Refer to Fig. 6)
Storage temperature	-25°C to +85°C
Humidity at +25°C, no condensation	< 95% RH
Vibration (non-operating)	10 to 150 Hz, 0.35 mm acc. 50 m/s², single amplitude (5 G max.) for 90 min. in
	each X, Y & Z directions, in acc. with IEC 68-2-6
Shock (in all directions)	30 G (300 m/s²) in all directions according to IEC 68-2-27
Pollution degree	2
Climatic class	3K3 according to EN 60721
Certification and Standards	
Electrical equipments of machines	IEC 60204-1 (over voltage category III)
Electronic equipment for use in electrical power installations	EN 50178 / IEC 62103
Safety entry low voltage	PELV (EN 60204), SELV (EN 60950)
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Hazardous location	CSA to CSA C22.2 No.107.1-01 (File No. 250468) cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I,
Hazardous location	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)]
Hazardous location Protection against electric shock	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410
	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive
Protection against electric shock CE	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC
Protection against electric shock CE ITE	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024
Protection against electric shock CE ITE Industrial	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2
Protection against electric shock CE ITE	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial	cCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2
Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 COMPARISON OF THE CONTROL OF THE CONTRO
Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Toldon British Count Eq. 250468 Class 1, Div. 2 Group A, B, C, D T4 Yes
Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection Transient surge voltage protection	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR
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.	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Toldon British Count Eq. 250468 Class 1, Div. 2 Group A, B, C, D T4 Yes
Protection against electric shock CE ITE Industrial Limitation of mains harmonic currents RoHS Compliant Safety and Protection Transient surge voltage protection	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically
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	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically
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:	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically Yes
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)	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 The control of the control o
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)	CCSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A,B,C,D T4, T _a = -20°C to +80°C (> +50°C derating)] DIN 57100-410 In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024 EN 55011, EN 61000-6-2 EN 61000-3-2 Ves VARISTOR I _{surge} = 150 % of Po _{max} typically Yes 4 kVAC / 3 kVAC 1.5 kVAC / 1.5 kVAC