(1) # EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

TÜV 22 ATEX 8890 X

Issue: 00

(4) Equipment: **Ex Thermal Protector**

Model: UX Series and UZ Series

(5) Manufacturer: **JPCI Controls (Foshan Gaoming) Co., Ltd.**

(6) Address: **No.10, Pengshan Road, Hecheng Street, Gaoming District Foshan City,528531 Guangdong, P.R.China**

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC / Ex8890.00 / 22.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 2G	**Ex mb IIC T3 Gb**
II 2D	**Ex mb IIIC T150°C Db(for model UX)**
II 2G	**Ex mb IIC T4 Gb**
II 2D	**Ex mb IIIC T125°C Db(for model UZ)**

Cologne, 2025-12-06

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz
Klauspeter Graffi

(13) Annex to

(14) # EU-Type Examination Certificate

TÜV 22 ATEX 8890 X

Issue: 00

(15) Description of Equipment

Equipment and type:

Ex Thermal Protector
Model: UX Series and UZ Series

General product information:

General Description for Ex Thermal Protector:
UX Series Ex Thermal Protector, consists of enclosure, ceramic insulation enclosure, bimetal over-current and over-temperature protector, silicone filling, silicone insulated cables etc, and the cable are directly led out. This device used with oven-current and over-temperature protector inside which has passed UL and CE certification. UL certificate No.: E42562 (PEPI), E254470 (VICTOR); VDE certificate No.: 8723-4510-1004 (PEPI). TUV certificate No.: R 50063371(VICTOR).

UZ Series Ex Thermal Protector, consists of enclosure, ceramic insulation enclosure, bimetal over-current and over-temperature protector, epoxy filling, XLPE insulated cables etc, and the cable are directly led out. This device used with over-current and over-temperature protector inside which has passed UL and CE certification. UL certificate No.: E42562 (PEPI), E254470 (VICTOR); VDE certificate No.: 8723-4510-1004 (PEPI). TUV certificate No.: R 50063371 (VICTOR).

Principle of over-current protection: the current passes through the enclosure terminal and bimetal sheet, and then connected to the electrical appliances (such as motors, transformers, etc.) through the terminals on the bottom plate to form a circuit. The protector will cut off the power supply within the setting time when the electrical appliances with over-current or the locked rotor current (LRA) is higher than the tripped-off setting value of the protector, so that the electrical appliances are protected.

Temperature protection principle: the current passes through the enclosure terminal and bimetal sheet, and then connected to the electrical appliances (such as motors, transformers, etc.) through the terminals on the bottom plate to form a circuit. When the electrical appliances did not work normally and makes the ambient temperature is too high, the heat is transferred to the bimetal sheet and up to the tripped-off temperature which calibrated, and caused the electrical contacts opened quickly and cut off the circuit. When the temperature decreased to the reset temperature, the bimetal sheet resets and quickly closes the electrical contacts and connect the circuit, continue the cyclic operation.

Mainly used for motor thermal protection, heat tracing and high temperature safety alarms in hazardous areas such as explosive gas and dust environments.

UX Series Ex Limiters is protected by Type “mb” and is suitable for use in gas hazardous areas, zone 1 and zone 2, gas grouping IIC (Hydrogen/Acetylene, the highest protection group) with temperature group T3, and also suitable for use in dust hazardous areas, zone 21 and zone 22, the dust group is IIIC (electric conductive dust, the highest protection group) with the maximum surface is 150°C.

UZ Series is protected by Type “mb” and is suitable for use in gas hazardous areas, zone 1 and zone 2, gas grouping IIC (Hydrogen/Acetylene, the highest protection group) with temperature group T4, and also suitable for use in dust hazardous areas, zone 21 and zone 22, the dust group is IIIC (electric conductive dust, the highest protection group) with the maximum surface is 125°C.

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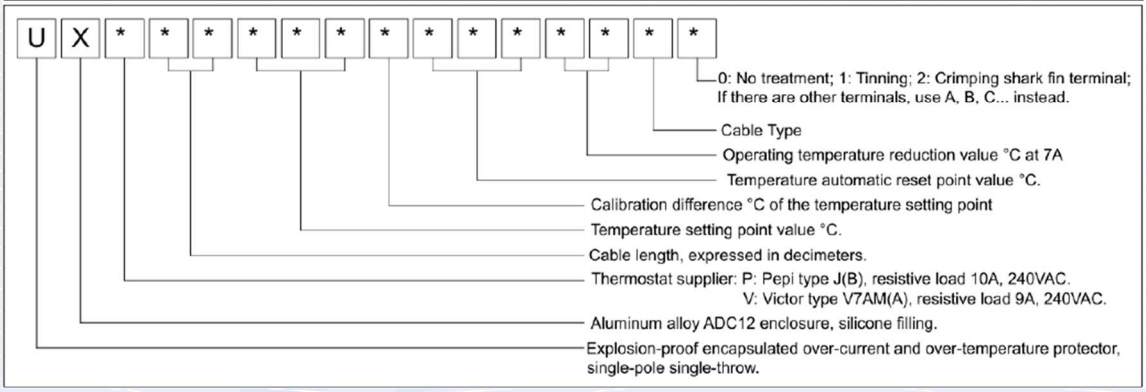
Model Designation:
Model UX Series:

Model name	Description
UXP**********B0	Aluminum alloy enclosure, PEPI J (B) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, ZR340
	silicone encapsulation, strip 6mm on the wire end, without terminal.
UXV**********B0	Aluminum alloy enclosure, VICTOR-V7AM(A) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, ZR340 silicone encapsulation, strip 6mm on the wire end, without terminal.
UXP**********B1	Aluminum alloy enclosure, PEPI J (B) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, ZR340 silicone encapsulation, strip 6mm on the wire end, without terminal.
UXV**********B1	Aluminum alloy enclosure, VICTOR-V7AM(A) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, ZR340 silicone encapsulation, strip 6mm on the wire end, without terminal.



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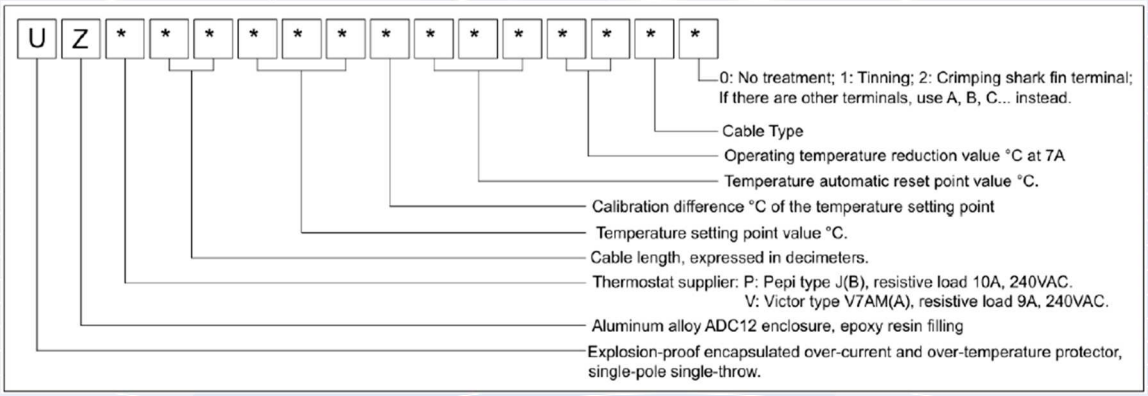
Model UZ Series:

Model name	Description
UZP**********B0	Aluminum alloy enclosure, PEPI J (B) type of over-current and over-temperature protector, XLPE insulated cable, 6637/A, B epoxy encapsulation, strip 6mm on the wire end, without terminal.
UZV**********B0	Aluminum alloy enclosure, VICTOR-V7AM(A) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, 6637/A, B epoxy encapsulation, strip 6mm on the wire end, without terminal.
UZP**********B1	Aluminum alloy enclosure, PEPI J (B) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, 6637/A, B epoxy encapsulation, strip 6mm on the wire end, without terminal.
UZV**********B1	Aluminum alloy enclosure, VICTOR-V7AM(A) type of over-current and over-temperature protector, H05SS-F silicone insulated cable, 6637/A, B epoxy encapsulation, strip 6mm on the wire end, without terminal.



Technical data:

Electrical data:

Maximum electric rating				Electrical life (cycles)	
Resistive load		6A, 240VAC		10000	
Inductive load		3A, 240VAC		10000	
Open	Reset	Open	Reset	Open	Reset

Permitted supply short-circuit current:22.2 A for PEPI Thermostat model J(B) and 16A for VICTOR Thermostat model V7AM.

Environmental data

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Ex Limiters 4X Series: EPL Gb/IIC T3& EPL Db/IIIC T150°C
Temperature measurement range:5°C to +130°C(Tolerance:±5°C)
Ambient temperature range: -30°C to +100°C

Ex Limiters 4V Series: EPL Gb/IIC T4& EPL Db/IIIC T125°C
Temperature measurement range:5°C to +100°C(Tolerance:±5°C)
Ambient temperature range:-30°C to +90°C

Ingress protection: IP20(in accordance with IEC 60529)

(16) Test report No.: GC / Ex8890.00 / 22

(17) Special Conditions for safe use

1. No direct mechanical impact and vibration to be expected during normal service, and the additional mechanical protection may be required for this purpose.
2. Ex Thermal Protector are not intended exposure to the UV lights.
3. Additional clamping devices or other equivalent methods should be used for the external connections of Ex Limiters to prevent any unexpected pull force applied.The clamping device should be as close to the external connection of Ex Thermal Protector as possible.
4. When the enclosure is obviously damaged, the Ex Thermal Protector should be stopped immediately.
5. The Ex Thermal Protector is not intended to be installed on the surface of objects with a temperature rise of more than 0.5°C per minute.
6. Electrical connections and regular maintenance are performed in accordance with standard IEC/EN 60079-14 and IEC/EN 60079-17,or equivalent national standards.
7. The electrical connection at the end of the cable can be carried out in a safe area or in an enclosure suitable for the protection level, and the professional personnel are strongly recommended to perform this work. For safety, additional mechanical protection maybe required to the cable in order to prevent possible mechanical damage.
8. Permitted supply short-circuit current:22.2 A for PEPI Thermostat model J(B) and 16A for VICTOR Thermostat model V7AM.
9. Function of Ex Thermal Protector was certified by the general industrial standards under full loads and maximum short-circuit conditions, and it is the manufacturer's responsibilities for the function warranty.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

Annex to

EU-Type Examination Certificate

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TÜV Rheinland Zertifizierungsstelle für Explosionsschutz
Klauspeter Graffi

Cologne, 2025-12-06