



**REPORT:** CSA/COA/2016-17/01

**PROJECT:** 70070856

**Certificate number; CSA/COA/2016-17/01      Date of issue; 8<sup>th</sup> August-2016**

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***Certificate of Attestation***  
***Issued to***

Protectron Electromech Pvt Ltd  
No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India

The product Sub-miniature fuse-links Tested & Certified according to IEC 60127-3:2015 with IEC 60127-1:2006 + A1:2011 + A2:2015

*Name & Address of Certificate holder;*

Protectron Electromech Pvt Ltd, No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India.

*Product* : Sub-miniature fuse-links:

*Model /Type(s)* : PMT 0.5A V6, PMT 1A V6, PMT2A V6, PMT 3.15 A V6, PMT 5A V6, PMT 6.3A V6

*Rated Voltage* : 300 V AC

*Rated Current* : 500 mA, 1 A, 2 A, 3.15 A, 5 A, 6.3 A

(Signature or equivalent authorized by the issuer)

CSA India Pvt Ltd.

Bearys Global Reserach Traiangle, A-3, 3 rd Floor, Tower A, Einstein Building, Bidarahalli Hobli, Whitefiled Ashram Road (SH-35)  
Bangalore-560067,India, [www.csagroup.org](http://www.csagroup.org)

**Continued on page 2....**



**REPORT:** CSA/COA/2016-17/01

**PROJECT:** 70070856

**Certificate number; CSA/COA/2016-17/01      Date of issue; 8<sup>th</sup> August-2016**

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*Standard sheet* : The sub- miniature fuse- links are tested according to standard sheet IV  
With the exception of the rated breaking capacity  
The rated breaking capacity was declared by the manufacturer.  
According to client's technical requirement, the breaking capacity test for  
300 V 50 A are carried out on the Sub-miniature fuse-links

*Rated breaking capacity* : 50 A at 300 V AC

*Characteristic Symbol* : T  
*Time/Current –characteristic* : Time-lag

*Reference CB reports* : CVC 2016-0657/1 dtd. July 13,2016, CVC2016-0657/2 dtd. July  
13,2016, CVC2016-0657/3 dtd. July 13,2016, CVC2016-0657/4 dtd.  
July 13,2016, CVC2016-0657/5 dtd. July 13, 2016, CVC2016-0657/6  
dtd. July 13, 2016,

*Place(s) of manufacture* : Protectron Electromech Pvt Ltd  
No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India

*Remarks:* :The manufacturer is same as applicant  
The shape of the body of the sub-miniature fuse-links is rectangle.  
The test voltage in clause 9.2 was DC 63 V.

*Our letter under this Certificate of Attestation will not imply that CSA has Listed, Classified, or  
Recognized the product, nor does it authorize the use of Listing or Classification Marks or other  
reference to CSA, on or in connection with the product.*

CSA India Pvt Ltd.

Bearys Global Reserach Traiangle, A-3, 3 rd Floor, Tower A, Einstein Building, Bidarahalli Hobli, Whitefiled Ashram Road (SH-35)  
Bangalore-560067,India, [www.csagroup.org](http://www.csagroup.org)



**REPORT:** CSA/COA/2016-17/02

**PROJECT:** 70102901

**Certificate number; CSA/COA/2016-17/02      Date of issue; 24<sup>th</sup> Jan-2017**

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***Certificate of Attestation  
Issued to***

Protectron Electromech Pvt Ltd  
No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India

The product Sub-miniature fuse-links Tested & Certified according to IEC 60127-3:2015 with IEC 60127-1:2006 + A1:2011 + A2:2015

*Name & Address of Certificate holder;*

Protectron Electromech Pvt Ltd, No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India.

*Product* : Sub-miniature fuse-links:

*Model /Type(s)* : PMT 4A V6

*Rated Voltage* : 300 V AC

*Rated Current* : 4 A

A handwritten signature in blue ink, appearing to read 'S. S. S.', on a light pink rectangular background.

(Signature or equivalent authorized by the issuer)

CSA India Pvt Ltd.

Bearys Global Reserach Traiangle, A-3, 3 rd Floor, Tower A, Einstein Building, Bidarahalli Hobli, Whitefiled Ashram Road (SH-35)  
Bangalore-560067,India, [www.csagroup.org](http://www.csagroup.org)

**Continued on page 2....**



**REPORT:** CSA/COA/2016-17/02

**PROJECT:** 70102901

**Certificate number; CSA/COA/2016-17/02      Date of issue; 24<sup>th</sup> Jan-2017**

*Standard sheet* : The sub- miniature fuse- links are tested according to standard sheet IV  
With the exception of the rated breaking capacity  
The rated breaking capacity was declared by the manufacturer.  
According to client's technical requirement, the breaking capacity test for  
300 V 50 A are carried out on the Sub-miniature fuse-links

*Rated breaking capacity* : 50 A at 300 V AC

*Characteristic Symbol* : T  
*Time/Current –characteristic* : Time-lag

*Reference CB reports* : CVC2016-0657/5

*Place(s) of manufacture* : Protectron Electromech Pvt Ltd  
No.44, 29th Cross, 7th Main Road, BSK Indl Area, BSK  
2nd Stage, Bangalore, India

*Remarks:* :The manufacturer is same as applicant  
The shape of the body of the sub-miniature fuse-links is rectangle.  
The test voltage in clause 9.2 was DC 63 V.

*Our letter under this Certificate of Attestation will not imply that CSA has Listed, Classified, or Recognized the product, nor does it authorize the use of Listing or Classification Marks or other reference to CSA, on or in connection with the product.*

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150619-E228912  
**Report Reference** E228912-20090323  
**Issue Date** 2015-JUNE-19

**Issued to:** PROTECTRON ELECTROMECH (P) LTD  
44 29TH CROSS 7TH MAIN ROAD  
BANASHANKARI INDUSTRIAL LAYOUT  
BANASHANKARI II STAGE  
BANGALORE KA 560070 INDIA

**This is to certify that  
representative samples of**

COMPONENT - FUSES, SUPPLEMENTAL  
Refer to Addendum page for Models

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

UL 248-1 Low-Voltage Fuses - Part 1: General  
Requirements  
UL 248-14 Low-Voltage Fuses - Part 14: Supplemental  
Fuses  
CSA C22.2 No. 248.1, Low-Voltage Fuses – Part 1:  
General Requirements  
CSA C22.2 No. 248.14, Low-Voltage Fuses – Part 14:  
Supplemental Fuses

**Additional Information:**

See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please  
contact a local UL Customer Service Representative at [www.ul.com/contactus](http://www.ul.com/contactus)





# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150619-E228912  
**Report Reference** E228912-20090323  
**Issue Date** 2015-JUNE-19

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## Models

Supplemental Fuse,

Cat. No. PTF 200 3A, PTF 200 4A, PTF 200 5A, PTF 200 7.5A, PTF 200 10A, PTF 200 15A, PTF 200 20A, PTF 200 25A, PTF 200 30A, PTF 200 35A, PTF 200 40A, PTF 200 3A-S, PTF 200 4A-S, PTF 200 5A-S, PTF 200 7.5A-S, PTF 200 10A-S, PTF 200 15A-S, PTF 200 20A-S, PTF 200 25A-S, PTF 200 30A-S, PTF 200 35A-S, PTF 200 40A-S.  
PTF 200 2A-N, PTF 200 3A-N, PTF 200 4A-N, PTF 200 5A-N, PTF 200 7.5A-N, PTF 200 10A-N, PTF 200 15A-N, PTF 200 20A-N, PTF 200 25A-N, PTF 200 30A-N, PTF 200 35A-N, PTF 200 40A-N, PTF 200 20A-SN, PTF 200 25A-SN, PTF 200 30A-SN, PTF 200 35A-SN, PTF 200 40A-SN.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130401-E228912  
**Report Reference** E228912-20130329  
**Issue Date** 2013-APRIL-01

**Issued to:** PROTECTRON ELECTROMECH (P) LTD  
44 29TH CROSS 7TH MAIN ROAD, BANASHANKARI  
INDUSTRIAL LAYOUT, BANASHANKARI II STAGE,  
BANGALORE KA 560070 INDIA



**This is to certify that representative samples of** COMPONENT - FUSES, SUPPLEMENTAL  
See next page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** Low-Voltage Fuses - Part 1: General Requirements, UL248-1 And CSA C22.2 No. 248.1-11  
Low-Voltage Fuses – Supplemental Fuses, UL248-14 And CSA C22.2 No. 248.14-00


**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada:  and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20130401-E228912  
**Report Reference** E228912-20130329  
**Issue Date** 2013-APRIL-01

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Cat. Nos. PTF 300 2A , PTF 300 3A, PTF 300 4A, PTF 300 5A, PTF 300 7.5A, PTF 300 10A, PTF 300 15A, PTF 300 20A, PTF 300 25A, PTF 300 30A, PTF 300 2A-A, PTF 300 3A-A, PTF 300 4A-A, PTF 300 5A-A, PTF 300 7.5A-A, PTF 300 10A-A, PTF 300 15A-A, PTF 300 20A-A, PTF 300 25A-A, PTF 300 30A-A.



William R. Carney, Director, North American Certification Programs

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150901-E228912  
**Report Reference** E228912-20150831  
**Issue Date** 2015-SEPTEMBER-01

**Issued to:** PROTECTRON ELECTROMECH (P) LTD  
44 29TH CROSS 7TH MAIN ROAD  
BANASHANKARI INDUSTRIAL LAYOUT  
BANASHANKARI II STAGE  
BANGALORE KA 560070 INDIA

**This is to certify that representative samples of** COMPONENT - FUSES, SUPPLEMENTAL Series PSF, PSFC, PST, PSTC, PMF and PMT.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 248-14 and CAN/CSA-C22.2 No. 248.14-00, Low-Voltage Fuses - Part 14: Supplemental Fuses.  
UL 248-1 and CSA C22.2 No. 248.1-11, Low-Voltage Fuses - Part 1: General Requirements.

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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Type Designation	Section	Report Date	Approvals
Cat No. PSF 8A, PSF 10A, PSFC 8A, PSFC 10A, PST 8A, PST 10A, PSTC 8A, PSTC 10A.  PMF followed by 0.63A, 0.8A, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 4A, 5A, 6.3A.  PMT followed by 0.1A, 0.125A, 0.16A, 0.2A, 0.25A, 0.315A, 0.4A, 0.5A, 0.63A, 0.8A, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 4A, 5A, 6.3A.	4	2015-08-31	B

## Approvals Notes -

A - Evaluated to United States Standards only.

B - Evaluated to United States Standards and Canadian National Standards.

C - Evaluated to Canadian National Standards only.

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150106-E228912  
**Report Reference** E228912-20021110  
**Issue Date** 2015-JANUARY-06

**Issued to:** PROTECTRON ELECTROMECH (P) LTD  
44 29TH CROSS 7TH MAIN ROAD  
BANASHANKARI INDUSTRIAL LAYOUT  
BANASHANKARI II STAGE  
BANGALORE KA 560070 INDIA

**This is to certify that representative samples of** COMPONENT - FUSES, SUPPLEMENTAL  
Refer to Addendum Page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 248-1 - Low-Voltage Fuses - Part 1: General Requirements  
UL 248-14 - Low-Voltage Fuses - Part 14: Supplemental Fuses  
CSA-C22.2 No. 248.1 - Low-Voltage Fuses - Part 1: General Requirements  
CSA-C22.2 No. 248.14 - Low-Voltage Fuses - Part 14: Supplemental Fuses

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20150106-E228912  
**Report Reference** E228912-20021110  
**Issue Date** 2015-JANUARY-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## Models

USR, CNR Component, Supplemental miniature glass fuses, Cat. No. PSF, non-time delay and Cat. No. PST, time delay, rated 100 mA to 6.3 A.

USR, CNR Component, Supplemental miniature ceramic fuses, Cat. No. PSFC, non-time delay and Cat. No. PSTC, time delay, rated 100 mA to 6.3 A.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

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