



Certificate of Compliance

Certificate: 1131773 (CA 110338)

Master Contract: 187724

Project: 1131773

Date Issued: December 5, 2000

Issued to: BOURNS MULTIFUSE PRODUCTS INC.
1200 Columbia Avenue
Riverside, CA 92505
USA
Attention: Mr. Steve Turner

The products listed below are eligible to bear the CSA Mark shown



Issued by: Brian McCran, P. Eng.

Signature:

PRODUCTS

CLASS 9073 32 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

Models SM013/250, R012/250 and R012/250U, rated 60V, 3A, Model MF-SM260, rated 6V, 40A.

APPLICABLE REQUIREMENTS

- | | | |
|----------------------------------|---|--|
| T.I.L. CA-3A | - | Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments. |
| IEC 60730-1, ed 3 | - | Automatic Electrical Controls for Household and Similar use, Clauses 12, 15, 16, 17, J15 and J17 for Type 2 controls (PTC Thermistor type) |
| IEC 60950 ed 2, Clause 2.11, AM4 | - | Safety of Information Technology Equipment, including Electrical Business Equipment |

Certificate of Compliance

Certificate: 1261551

Master Contract: 187724 (CA 110338)

Project: 1261551

Date Issued: November 22, 2001

Issued to: Bourns Multifuse Products Inc.
1200 Columbia Avenue
Riverside, CA 92507
USA
Attention: Mr. Steve Turner

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicator ▲*



[Signature]
Issued by: Brian McCran, P. Eng.

[Signature]
Authorized by: Ray Padavi, P.Eng., MBA
Operation Manager

PRODUCTS

CLASS 9073 02 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

Models MF-SM100/33 and MF-SM150/33, rated 33V, 40A.

APPLICABLE REQUIREMENTS

- | | | | |
|--------|------------------------------|---|--|
| T.I.L. | CA-3A | - | Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments. |
| IEC | 60730-1, Ed 3 | - | Automatic Electrical Controls for Household and Similar use, Clauses 12, 15, 16, 17, J15 and J17 for Type 2 controls (PTC Thermistor Type) |
| IEC | 60950 Ed 2, Clause 2.11, AM4 | - | Safety of Information Technology Equipment, including Electrical Business Equipment |



CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1261551

Master Contract: 187724 (CA 110338)

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
1300107	April 1, 2002	Addition of model MF-SM185/33.
1261551	November 22, 2001	Original Certification.



Certificate of Compliance

Certificate: 1340789 (CA 110338-5)

Master Contract: 187724

Project: 1340789

Date Issued: September 13, 2002

Issued to: **BOURNS MULTIFUSE PRODUCTS INC.**
1200 Columbia Avenue
Riverside, CA 92507
Attention: Mr. Gary Straker

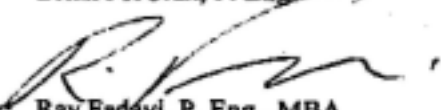
*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicator ▲*



Issued by:


Brian McCran, P. Eng

Authorized by:


Ray Fadavi, P. Eng., MBA
Operations Manager

PRODUCTS

CLASS 9073 32 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

Series MF-SM030 to MF-SM250, rated from 15V to 60V, 100A.

APPLICABLE STANDARDS

T.I.L. CA-3 - Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments.



Certificate of Compliance

Certificate: 1131773
Project: 1340864
Issued to: BOURNS MULTIFUSE PRODUCTS INC.
1200 Columbia Avenue
Riverside, CA 92505
USA
Attention: Mr. Gary Straker

Master Contract: 187724 (CA 110338)
Date Issued: September 11, 2002

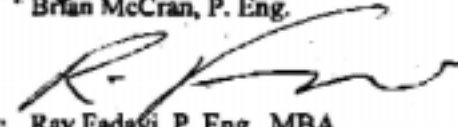
The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Issued by:


Brian McCran, P. Eng.

Authorized by:


Ray Fadaei, P. Eng., MBA
Operations Manager

PRODUCTS

CLASS 9073 32 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

Models MF-SM013/250, MF-SM013/250V, R012/250, and R012/250U, rated 60V, 3A, Model MF-SM260, rated 6V, 40A.

APPLICABLE REQUIREMENTS

- | | | |
|----------------------------------|---|--|
| T.I.L. CA-3A | - | Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments. |
| IEC 60730-1, ed 3 | - | Automatic Electrical Controls for Household and Similar use, Clauses 12, 15, 16, 17, J15 and J17 for Type 2 controls (PTC Thermistor type) |
| IEC 60950 ed 2, Clause 2.11, AM4 | - | Safety of Information Technology Equipment, including Electrical Business Equipment |



Certificate of Compliance

Certificate: 1131773

Master Contract: 187724 (CA 110338)

Project: 1397031

Date Issued: January 15, 2003

Issued to: **Bourns Multifuse Products Inc.**
1200 Columbia Avenue
Riverside, CA 92507
USA
Attention: Mr. Steve Turner

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicator ▲*



Issued by:

David Briere
David Briere, B.Eng.

Authorized by: *R. Fadavi*
Ray Fadavi, P.Eng., MBA
Operations Manager

PRODUCTS

CLASS 9073 32 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

<u>Model</u>	<u>Rating</u>
MF-SM013/250	60V, 3A
MF-SM013/250V	60V, 3A
MF-R012/250	60V, 3A
MF-R012/250U	60V, 3A
MF-RX012/250	60V, 3A
MF-RX012/250U	60V, 3A
MF-SM260	6V, 40A

APPLICABLE REQUIREMENTS

- | | | |
|----------------------------------|---|--|
| T.I.L. CA-3A | - | Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments. |
| IEC 60730-1, ed 3 | - | Automatic Electrical Controls for Household and Similar use, Clauses 12, 15, 16, 17, J15 and J17 for Type 2 controls (PTC Thermistor type) |
| IEC 60950 ed 2, Clause 2.11, AM4 | - | Safety of Information Technology Equipment, including Electrical Business Equipment |

Certificate of Compliance

Certificate: 1340789 (CA 110338-5)
Project: 1459641
Issued to: BOURNS MULTIFUSE PRODUCTS INC.
1200 Columbia Avenue
Riverside, CA 92507
Attention: Mr. Gary Straker

Master Contract: 187724
Date Issued: July 24, 2003

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Issued by: Brian McCran, P. Eng.

Authorized by: Ray Fadavi, P. Eng., MBA
Operations Manager

PRODUCTS

CLASS 9073 32 - THERMISTORS - PTC Type - Component Acceptance

PTC thermistors for overcurrent protection:

Series MF-SM030 to MF-SM250, rated from 15V to 60V, 100A (except MF-SM050 is 40A).

APPLICABLE STANDARDS

T.I.L. CA-3 - Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments.

Supplement to Certificate of Compliance

Certificate: 1459641 (CA 110338-5)

Master Contract: 187724

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Revision	Date	Description
1459641	July 24, 2003	Update to 1340789. Model MF-SM050 voltage and current rating changed to 60V and 40A.
1340789	02/09/13	Supersedes -5, reissued as 1340789 to increase I max to 100A and change initial resistance of the -030 and -250.
CA 110338-5	98/01/09	Original Certification.



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1981618 (CA 110338)

Master Contract: 187724

Project: 1981618

Date Issued: 2007/12/21

Issued to: Bourns Electronics (Taiwan) Ltd.

1 Kung 6th Rd Industrial Zone II
Lin-kou Shiang
Taipei Hsien,
Taiwan
Attention: Mr. Brady Shih

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Issued by: Edwin Ko, P. Eng.

Authorized by: George Tranquada, C.E.T.
Product Group Manager

PRODUCTS

CLASS 9073 32 - ELECTRONIC COMPONENTS - Thermistors - PTC Type

PTC thermistors for overcurrent protection:

Model MF-SM008/250F, rated 0.08A Hold, 80V dc/3A max.

Note: Model number may be followed by suffix indicating different shapes of leads, colours of cover tape or packaging methods.



Certificate: 1981618 (CA 110338)

Master Contract: 187724

Project: 1981618

Date Issued: 2007/12/21

APPLICABLE REQUIREMENTS

T.I.L. CA-3A - Component Acceptance Requirements for PTC Thermistors for Over current Protection in Electrical and Electronic Equipments.

IEC 60730-1, Ed 3 - Automatic Electrical Controls for Household and Similar use, Clauses 12, 15, 16, 17, J15 and J17 for Type 2 controls (PTC Thermistor Type)

IEC 60950-1 Ed 1, Clause 2.5 - Information Technology Equipment - Safety - Part 1: General Requirements



Supplement to Certificate of Compliance

Certificate: 1981618

Master Contract: 187724

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1981618	2007/12/21	Original Certification.