

“ASTA” Test Certifications

S.no	ASTA Rating	Certificate No.
1.	4000A	19217
2.	2500A	19216
3.	1600A	19215
4.	1250A	19214
5.	800A	19213
6.	400A	19212

ASTA Certificate

of Verification Tests

LABORATORY REF. NO: 34005/8

APPARATUS: 4000A 415V/1000V/8kV ($U_n/U_i/U_{imp}$), 50Hz extendable low-voltage power switchgear and controlgear assembly comprising:
three phase and neutral main and distribution busbars, a protective circuit, one incoming ACB, one outgoing ACB and seven outgoing MCCB circuits

DESIGNATION: 4000A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK

Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands

Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK

Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 6th December 2012 – 15th October 2013

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested.

Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

This front sheet, 4 ratings pages plus 122 other pages as detailed on page E

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.

Issued by Intertek, Hilton House, Corporation Street, Rugby, CV21 2DN England
Contact: asta@intertek.com Tel: +44 (0)1788 578435



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Nick Halaburda ASTA Observer
Nick Halaburda

[Signature] Certification Manager

28th June 2014 Date

ASTA Certificate of Verification Tests

LABORATORY REF. NO: 34005/7

APPARATUS: 2500A 415V/1000V/8kV (Un/Ui/Uimp), 50Hz extendable low-voltage power switchgear and controlgear assembly comprising: three phase and neutral main and distribution busbars, a protective circuit, one incoming ACB and four outgoing MCCB circuits

DESIGNATION: 2500A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
 Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
 Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK
 Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 5th December 2012 – 2nd May 2014

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

This front sheet, 4 ratings pages plus 107 other pages as detailed on page E

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Nick Halaburda **ASTA Observer**
Nick Halaburda

R. Leonard **Certification Manager**

6th September 2014 **Date**

ASTA Certificate

of Verification Tests

LABORATORY REF. NO: 34005/6

APPARATUS: 1600A 415V/1000V/8kV (Un/Ui/Uimp), 50Hz extendable low-voltage power switchgear and controlgear assembly comprising:
three phase and neutral main and distribution busbars, a protective circuit, one incoming ACB and three outgoing MCCB circuits

DESIGNATION: 1600A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK
Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 10th December 2012 – 20th June 2014

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

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Nick Halaburda ASTA Observer
Nick Halaburda

R. Hayward Certification Manager

8th September 2014 Date

ASTA Certificate

of Verification Tests

LABORATORY REF. NO: 34005/13

APPARATUS: 1250A 415V/1000V/8kV (Un/Ui/Uimp), 50Hz extendable low-voltage power switchgear and controlgear assembly comprising: three phase and neutral main and distribution busbars, a protective circuit, one incoming ACB and four outgoing MCCB circuits

DESIGNATION: 1250A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
 Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
 Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK
 Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 30th November 2012 – 16th April 2014

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

This front sheet, 4 ratings pages plus 109 other pages as detailed on page E

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N. Halaburda ASTA Observer
Nick Halaburda

[Signature] Certification Manager

15th September 2014 Date

ASTA Certificate

of Verification Tests

LABORATORY REF. NO: 34005/4

APPARATUS: 800A 415V/800V/8kV ($U_n/U_j/U_{imp}$), 50Hz low-voltage power switchgear and controlgear assembly comprising:
three phase main busbars, a neutral conductor, a protective circuit, one incoming MCCB and six outgoing MCCB circuits

DESIGNATION: 800A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK
Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 18th December 2012 – 2nd May 2013

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested.

Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

This front sheet, 4 ratings pages plus 76 other pages as detailed on page E

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Nick Haliburda ASTA Observer
Nick Haliburda

P. J. ... Certification Manager

30th JANUARY 2014 Date

ASTA Certificate

of Verification Tests

LABORATORY REF. NO: 34005/2

APPARATUS: 400A 415V/800V/8kV ($U_n/U_i/U_{imp}$), 50Hz low-voltage power switchgear and controlgear assembly comprising:
three phase main busbars, a neutral conductor, a protective circuit, one incoming MCCB and five outgoing MCCB circuits

DESIGNATION: 400A Switchboard

MANUFACTURER: Safety Electrical Switchgear Manufacturing (L.L.C), PO Box 3494, Technopark, Dubai, UAE

TESTED BY: kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
Particle Technology Limited, Station Yard Industrial Estate, Hatton, Derbyshire, DE65 5DU, UK
Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK

DATE(S) OF TESTS: 3rd December 2012 – 2nd May 2013

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with :-

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1

- | | |
|--------------------------------------|--------------------------------------|
| 1: Strength of Materials and Parts | 9: Dielectric Properties |
| 2: Degree of Protection of Enclosure | 10: Temperature-Rise Limits |
| 3: Clearances | 11: Short-Circuit Withstand Strength |
| 4: Creepage Distances | 12: Electromagnetic Compatibility |
| 5: Protection Against Electric Shock | 13: Mechanical Operation |

Refer to pages A, B, C and D for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s). This certificate applies only to the apparatus tested.

Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises:-

This front sheet, 4 ratings pages plus 72 other pages as detailed on page E

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Nick Halaburda ASTA Observer
Nick Halaburda

[Signature] Certification Manager

5th March 2014 Date