

# ASTA TYPE CERTIFICATE

## VERIFICATION OF TEST

**Project No:** G104277945LCS003    **Certificate No:** ASTA-TYPE-000411

**Applicant:** Schneider Electric India Private Limited,  
No. 12A, Hosur Road, Attibele Industrial Area,  
Neralur Post, Bangalore, Karnataka - 562107, India

**Apparatus:** 33.9 kVAr, 480V, 3-phase,  $\Delta$ -connected, 50 / 60Hz, Temperature category -25/D, LV power capacitor, cylindrical self-healing type.

**Manufactured By:** Schneider Electric India Private Limited,  
No. 12A, Hosur Road, Attibele Industrial Area,  
Neralur Post, Bangalore, Karnataka - 562107, India

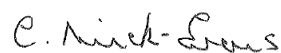
**Test Report No:** 01032751/03

**Designation:** BLRCS339A407B48, Easylogic PFC / EasyCan

The apparatus which is representative of the designation, supplied drawings and photographs has been evaluated in accordance with:

**IEC 60831-1 Edition 3.0 2014-02 Clauses 7, 8, 9, 10, 11, 13, 14, 15 and 16**  
**IEC 60831-2 Edition 3.0 2014-02 Clauses 17, 18 and 19**

The results are shown in the record of 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) of this Certificate. This Certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.



Certification Engineer



Certification Officer

19 October 2020  
.....

Date

**Project No. G104277945LCS003      Certificate No. ASTA-TYPE-000411**

**Conditions of use:**

ASTA Type Certificates, verification of test is issued by Intertek for the exclusive use of the party applying for the Certificate. Intertek assumes no liability to any parties other than those with which it has an agreement and then only in accordance with the agreed Terms and Conditions.

The Applicant is authorised to copy or distribute Certificates and Test Reports provided the entire contents are included, or Certificate Front Sheets accompanied by any associated pages on which are stated the assigned rated characteristics and no part is obscured or illegible. Permission must be obtained from Intertek before any other kind of reproduction is made.

The holder of a Certificate may claim in Trade Journals, Catalogues, Technical Articles etc., and without the prior approval of Intertek that the product identified in a Certificate is Certified.

To minimise the possibility of any misunderstanding such claims must clearly identify the product(s) certified or approved, the ratings verified and the Standard against which certification/approval has been made.

Any other use of the Intertek or ASTA brand must first be approved in writing by Intertek. Test results and ratings verified by testing included in the Certificate and related Test Reports shall relate specifically to the sample(s) tested.

**Authenticity:**

Authenticity of any ASTA document can be confirmed by contacting the Intertek ASTA certification office at the following address: Intertek Testing & Certification Ltd., Centre Court, Meridian Business Park, Leicester, LE19 1WD, United Kingdom. Email: [asta@intertek.com](mailto:asta@intertek.com)

**Project No. G104277945LCS003      Certificate No. ASTA-TYPE-000411**

**Limitations of use:**

Verification of: a LV Capacitor

| CHARACTERISTIC VERIFIED                                                                                 | STANDARD    | CLAUSE/<br>SUB<br>CLAUSE | VERIFIED TESTS AND RATINGS        |
|---------------------------------------------------------------------------------------------------------|-------------|--------------------------|-----------------------------------|
| Capacitance measurement and output calculation                                                          | IEC 60831-1 | 7                        | Verified                          |
| Measurement of the tangent of the loss angle ( $\tan \delta$ ) of the capacitor                         | IEC 60831-1 | 8                        | Verified                          |
| Voltage tests between terminals                                                                         | IEC 60831-1 | 9                        | Verified<br>$U_T = 1032V$ for 10s |
| Voltage tests between terminals and container                                                           | IEC 60831-1 | 10                       | Verified<br>$U_T = 3.0kV$         |
| Test of internal discharge device                                                                       | IEC 60831-1 | 11                       | Verified                          |
| Sealing test                                                                                            | IEC 60831-1 | 12                       | Verified                          |
| Thermal stability test                                                                                  | IEC 60831-1 | 13                       | Verified                          |
| Measurement of the tangent of the loss angle ( $\tan \delta$ ) of the capacitor at elevated temperature | IEC 60831-1 | 14                       | Verified                          |
| Lightning impulse voltage test between terminals and container                                          | IEC 60831-1 | 15                       | Verified<br>$8kV_p$               |
| Discharge test                                                                                          | IEC 60831-1 | 16                       | Verified                          |
| Ageing test                                                                                             | IEC 60831-2 | 17                       | Verified                          |
| Self-healing test                                                                                       | IEC 60831-2 | 18                       | Verified                          |
| Destruction test                                                                                        | IEC 60831-2 | 19                       | Verified                          |

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

This certificate is NOT accredited under UKAS, accreditation No.010

Issued by Intertek Testing & Certification Ltd., Academy Place, 1-9 Brook Street, Brentwood CM14 5NQ, United Kingdom

**Project No. G104277945LCS003      Certificate No. ASTA-TYPE-000411**

### **Certificate contents:**

The following documents are attached to and form part of this certificate:

| Documents:                                   | Number of pages: |
|----------------------------------------------|------------------|
| Test report no. 01032751/03 dated 18/10/2020 | 18               |
| Oscillograms                                 | 3                |
| Photographs                                  | 3                |
| Drawings                                     | 5                |

### **Certificate Revision Amendment Table:**

| Certificate Number | Issue Date    | Amendment     |
|--------------------|---------------|---------------|
| ASTA-TYPE-000411   | As front page | Initial Issue |
|                    |               |               |
|                    |               |               |
|                    |               |               |