

CERTIFICATE OF COMPLIANCE

Certificate Number E487006
Report Reference E487006-20160901
Issue Date 2023-NOVEMBER-30

Issued to: LS ELECTRIC CO LTD
95 BAEKBONG-RO HEUNGDEOK-GU
CHEONGJU-SI, CHUNGCHEONGBUK-DO 28439
REPUBLIC OF KOREA

**This certificate confirms that
representative samples of**

Surge-protective Devices - Component
See Addendum Pages for Models/Product

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

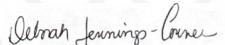
Standard(s) for Safety: UL 1449 Surge Protective Devices
CSA C22.2 No. 269.5-17 Surge protective devices - Type 5 – Components

Additional Information: See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Deborah Jennings-Conner, VP Regulatory 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 UL Customer Service at <http://ul.com/aboutul/locations/>



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

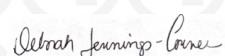
(USR & CNR)
BK20S-T2/385/1P
BK20S-T2/385/2P
BK20S-T2/385/3P
BK20S-T2/385/4P
BK30S-T2/385/1P
BK30S-T2/385/2P
BK30S-T2/385/3P
BK30S-T2/385/4P
BK40S-T2/385/1P
BK40S-T2/385/2P
BK40S-T2/385/3P
BK40S-T2/385/4P

(USR Only)
BK20S-PV600
BK20S-PV1000

(USR & CNR)
BK10S-T2/385/1P
BK10S-T2/385/2P
BK10S-T2/385/3P
BK10S-T2/385/4P
BK05S-T3/385/2P
BK05S-T3/385/4P

(USR Only)
BK20S-DC1000
BK20S-DC1000(AL)
BK20S-DC600
BK20S-DC600(AL)

(USR & CNR)
BK10S-T2/385/1P+N
BK10S-T2/385/3P+N
BK20S-T2/385/1P+N
BK20S-T2/385/3P+N
BK30S-T2/385/1P+N
BK30S-T2/385/3P+N
BK40S-T2/385/1P+N
BK40S-T2/385/3P+N


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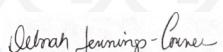
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BK20S-T2/460/1P
BK20S-T2/460/2P
BK20S-T2/460/3P
BK20S-T2/460/4P
BK20S-T2/460/1P+N
BK20S-T2/460/3P+N
BK30S-T2/460/1P
BK30S-T2/460/2P
BK30S-T2/460/3P
BK30S-T2/460/4P
BK30S-T2/460/1P+N
BK30S-T2/460/3P+N
BK40S-T2/460/1P
BK40S-T2/460/2P
BK40S-T2/460/3P
BK40S-T2/460/4P
BK40S-T2/460/1P+N
BK40S-T2/460/3P+N
BK10S-DC48
BK10S-T2/460/1P
BK10S-T2/460/2P
BK10S-T2/460/3P
BK10S-T2/460/4P
BK10S-T2/460/1P+N
BK10S-T2/460/3P+N
BK10S-DC48I
BK10S-T2/385/1PI
BK10S-T2/385/2PI
BK10S-T2/385/3PI
BK10S-T2/385/4PI
BK10S-T2/385/1P+NI
BK10S-T2/385/3P+NI
BK20S-T2/385/1PI
BK20S-T2/385/2PI
BK20S-T2/385/3PI
BK20S-T2/385/4PI
BK20S-T2/385/1P+NI
BK20S-T2/385/3P+NI
BK30S-T2/385/1PI
BK30S-T2/385/2PI
BK30S-T2/385/3PI
BK30S-T2/385/4PI
BK30S-T2/385/1P+NI



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(USR & CNR)
BK30S-T2/385/3P+NI
BK40S-T2/385/1PI
BK40S-T2/385/2PI
BK40S-T2/385/3PI
BK40S-T2/385/4PI
BK40S-T2/385/1P+NI
BK40S-T2/385/3P+NI
BK10S-T2/460/1PI
BK10S-T2/460/2PI
BK10S-T2/460/3PI
BK10S-T2/460/4PI
BK10S-T2/460/1P+NI
BK10S-T2/460/3P+NI
BK20S-T2/460/1PI
BK20S-T2/460/2PI
BK20S-T2/460/3PI
BK20S-T2/460/4PI
BK20S-T2/460/1P+NI
BK20S-T2/460/3P+NI
BK30S-T2/460/1PI
BK30S-T2/460/2PI
BK30S-T2/460/3PI
BK30S-T2/460/4PI
BK30S-T2/460/1P+NI
BK30S-T2/460/3P+NI
BK40S-T2/460/1PI
BK40S-T2/460/2PI
BK40S-T2/460/3PI
BK40S-T2/460/4PI
BK40S-T2/460/1P+NI
BK40S-T2/460/3P+NI

Debrah Jennings-Conner

Debrah Jennings-Conner, VP Regulatory Services

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EC Declaration Of Conformity

WE : LS ELECTRIC Co., Ltd.

Cheong Ju Plant #1

95, Beakbong-ro, Heung deok-gu, 28439, Cheongju-si,
Chungcheongbuk-do, Republic of KOREA

Declare under our own responsibility that the product(s):

Product : Surge Protective Device

Model : BK05S-T3, BK10S-T2, BK20S-T2, BK30S-T2, BK40S-T2,
BK12S-T1, BK20SB-T2, BK40SB-T2, BK20S-DC110,
BK20S-DC600, BK20S-DC1000, BK20S-DC1500

Are in conformity with the provisions of the following (E)EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation :

2014/35/EU

Low-Voltage Directive

And that standards and/or technical specifications referenced below have been applied :

Surge protective devices connected to low-voltage power distribution systems – Part 1: performance requirements and testing methods,

General rules

EN 61643-11:2012

Done at Plant Cheong-Ju. March 27, 2020.

Signatures : Inchan, Song
I.C. Song
Technical Director

Cho, Seokjin
S.J. Cho
Technical Manager

LS ELECTRIC

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

| | |
|---|--|
| Product | Surge Protective Device |
| Name and address of the applicant | LSIS Co., Ltd. 127, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do Korea, Republic of |
| Name and address of the manufacturer | Shanghai SEARI GEHE Intelligent Technology Co., Ltd. Number 358 North Huancheng Road, Fengxian District, Shanghai China |
| Name and address of the factory | <input type="checkbox"/> Additional information on page 2 Shanghai SEARI GEHE Intelligent Technology Co., Ltd. Number 358 North Huancheng Road, Fengxian District, Shanghai China |
| Notes: When more than one factory, please report on page 2 | |
| Ratings and principal characteristics | BK20S-T2: Test class II/Type 2, In = 20 kA, Imax = 40 kA, Isccr = 400 A, IP20; See additional information on page 2 |
| | BK40S-T2: Test class II/Type 2, In = 40 kA, Imax = 80 kA, Isccr = 450 A, IP20; See additional information on page 2 |
| Trademark (if any) | LS |
| Customer's Testing Facility (CTF) Stage used | |
| Model / Type Ref. | BK20S-T2, BK40S-T2 |
| Additional information (if necessary may also be reported on page 2) | <input checked="" type="checkbox"/> Additional information on page 2 This certificate replaces NL-45025 dated on 2017-01-20 due to manufacturer correction. |
| A sample of the product was tested and found to be in conformity with | IEC 61643-11:2011 |
| National differences: | |
| EU Group Differences | |
| As shown in the Test Report Ref. No. which forms part of this Certificate | 6002481.50 and 6002481.51 |

This CB Test Certificate is issued by the National Certification Body

Meander 1051, NL-6825 MJ Arnhem, Netherlands
DEKRA Certification B.V.

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

Additional Information

| Model/Type Ref. | Mode | Uc(V~) | In(kA) | I _{max} (kA) | U _p (kV) | No. of pole(s) |
|-----------------|----------|---------|--------|-----------------------|---------------------|----------------|
| BK20S-T2 | L-PE | 385 | 20 | 40 | 1,8 | 1 |
| BK20S-T2 | L/N-PE | 385 | 20 | 40 | 1,8 | 2 |
| BK20S-T2 | L-PE | 385 | 20 | 40 | 1,8 | 3 |
| BK20S-T2 | L/N-PE | 385 | 20 | 40 | 1,8 | 4 |
| BK20S-T2 | L-N/N-PE | 385/255 | 20 | 40 | 1,8/1,2 | 1+1 |
| BK20S-T2 | L-N/N-PE | 385/255 | 20 | 40 | 1,8/1,2 | 3+1 |
| BK40S-T2 | L-PE | 385 | 40 | 80 | 2,5 | 1 |
| BK40S-T2 | L/N-PE | 385 | 40 | 80 | 2,5 | 2 |
| BK40S-T2 | L-PE | 385 | 40 | 80 | 2,5 | 3 |
| BK40S-T2 | L/N-PE | 385 | 40 | 80 | 2,5 | 4 |
| BK40S-T2 | L-N/N-PE | 385/255 | 40 | 80 | 2,5/2,0 | 1+1 |
| BK40S-T2 | L-N/N-PE | 385/255 | 40 | 80 | 2,5/2,0 | 3+1 |

This CB Test Certificate is issued by the National Certification Body

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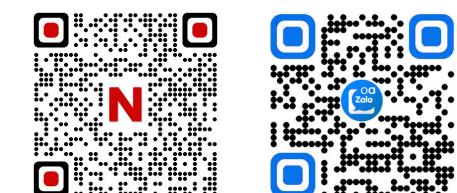


www.npower.com.vn

Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER**

Bản quyền nội dung thuộc về **LS Electric**

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www.npower.com.vn

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