

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50366754 0001

Report No.: 50065426 001

Holder: ELS Elektrotechnika Sp. z o.o. Sp. k.
ul. Lotnicza 9,
58-260 Bielawa,
Poland

Product: Surge Protector
(Surge Protective Device)

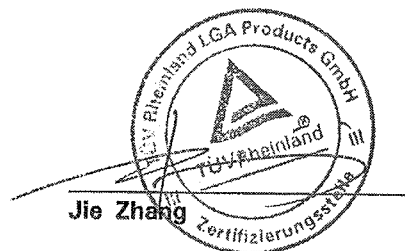
Identification: Type Designation: SM30B+C 1P SM30B+C 4P
Serial No. : Engineering sample

Remark: Issued in conjunction with TÜV Rheinland license
R 50366748 0001.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date 24.01.2017



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50366748

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0001

Ihr Zeichen *Client Reference*
P.O.

Unser Zeichen *Our Reference*
01-KSH-50065426 001

Ausstellungsdatum *Date of Issue*
24.01.2017 (day/mo/yr)

Genehmigungsinhaber *License Holder*

ELS Elektrotechnika Sp. z o.o. Sp. k
ul. Lotnicza 9,
58-260 Bielawa,
Poland

Fertigungsstätte *Manufacturing Plant*

ZHEJIANG THOR ELECTRIC
CO., LTD.
QIANYANGDONG INDUSTRY,
LISHI TOWN, WENZHOU 325604
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 61643-11:2012

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit
License Fee - Unit

Surge Protector (Surge Protective Device)

Type Designation	: SM30B+C 1P SM30B+C 4P	6
Trade Mark	: ELS Elektrotechnika	
Max. Continuous Operating Voltage(Uc)	: AC 275V	
Nominal Discharge Current(In)	: 30kA	
Impulse Current(Iimp)	: 4,5kA	
Max. Discharge Current(Imax)	: 60kA	
SPD Type	: Type 1 or 2	
Voltage Protective Level(Up)	: 1,5kV	
Protection Degree	: IP20	
Number of Ports	: One	
Location Category	: Indoor	
Temperatures/Humidity	: -40°C~+85°C/RH95%	
Air Pressure and Altitude	: +3000m to -500m	

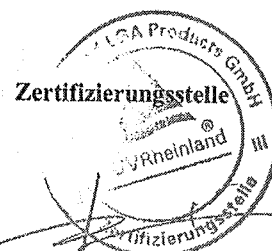
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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel : +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



Jie Zhang

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50366756 0001

Report No.: 50065429 001

Holder: ELS Elektrotechnika Sp. z o.o. Sp. k.
ul. Lotnicza 9,
58-260 Bielawa,
Poland

Product: Surge Protector
(Surge Protective Device)

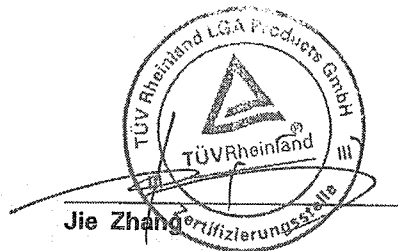
Identification: Type Designation: SM20C 1P SM20C 4P
Serial No. : Engineering sample

Remark: Issued in conjunction with TÜV Rheinland license
R 50366755 0001.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date 24.01.2017



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50366755

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0001

Ihr Zeichen Client Reference
P.O.

Unser Zeichen Our Reference
01-KSH-50065429 001

Ausstellungsdatum Date of Issue
24.01.2017 (day/mo/yr)

Genehmigungsinhaber License Holder

ELS Elektrotechnika Sp. z o.o. Sp. k
ul. Lotnicza 9,
58-260 Bielawa,
Poland

Fertigungsstätte Manufacturing Plant

ZHEJIANG THOR ELECTRIC
CO., LTD.
QIANYANGDONG INDUSTRY,
LISHI TOWN, WENZHOU 325604
P.R. China

Prüfzeichen Test Mark



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1419042831

Geprüft nach Tested acc. to
EN 61643-11:2012

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Surge Protector (Surge Protective Device)

Type Designation : SM20C 1P
SM20C 4P
Trade Mark : ELS Elektrotechnika
Max. Continuous Operating Voltage (Uc) : AC 275V
Nominal Discharge Current (In) : 20kA
Max. Discharge Current (Imax) : 40kA
SPD Type : Type 2
Voltage Protective Level (Up) : 1,2kV
Protection Degree : IP20
Number of Ports : One
Location Category : Indoor
Temperatures/Humidity : -40°C~+85°C/RH95%
Air Pressure and Altitude : +3000m to +500m

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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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