



Marine & Offshore

Certificate number: 76865/A0 BV

File number: MPA2400428

Product code: 4132H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**SOCOMEK**

BENFELD CEDEX - FRANCE

*for the type of product*

**INSULATION MONITORS (EARTH FAULT DETECTORS)**

ISOM K-40h/K-40 AC/D15-h

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships  
IEC 61557-8: 2014

EC Code: 33

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 16 Dec 2029**

**For Bureau Veritas Marine & Offshore,**

At BV MULHOUSE, on 16 Dec 2024,

Anthony Kinnen

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

The **ISOM K-40h/K-40 AC/D15-h** insulation monitoring device monitors the insulation level of medium-interference power networks in IT neutral arrangement.

#### **1.1 - Approval Range:**

Product Name	Product Reference	Product Description	Firmware version	Software version
ISOM K-40 AC	47250120	Insulation monitoring device	1.2.1.8	880294
ISOM K-40h	47250122	Insulation monitoring device	1.3.0.1	880365
ISOM D-15h	47290200	Insulation monitoring device	1.1.0.1	880293

#### **1.2 - Main Characteristics:**

	ISOM K-40 AC	ISOM K-40h	ISOM D-15h
Power supply:	115-230V AC 120-240V DC	230V AC	
Current range:	0.05A to 1200A		
Functional temperature:	-10°C to 70°C		
Storage temperature:	-40°C to 70°C		
Relative humidity:	90% HR		
IP housing:	IP20		
IP front face	IP40		
IK front face:	IK08		
Drop test:	10cm		

### 2. DOCUMENTS AND DRAWINGS :

Catalogue, dated 2023-2024.

BOM:

LST 24 131504 - Bill of Material\_ISOM K-40 AC, dated 21 Aug 2024.

LST 24 131506 - Bill of Material\_ISOM K-40h, dated 21 Aug 2024.

LST 24 131507 - Bill of Material\_ISOM D-15h, dated 21 Aug 2024.

Manufacturer location N° LST 24 129110, dated 21 Aug 2024.

Software delivery List ISOM K-40h/K-40 AC/D15-h N° DIV 24 129106, dated 18 Mar 2024.

Software delivery N° 880293X, 880294C and 880365X.

EU Declaration of conformity N° COD 21 125935, dated 19 Oct 2021.

Synthesis N° DIV 18 97862, dated 05 Dec 2024.

### 3. TEST REPORTS :

**LCIE:**

Safety Test Report N° 21337794-797992-A, dated 22 Aug 2024.

Safety Test Report N° 21337794-797992-B, dated 22 Aug 2024.

**TESLA POWER LAB:**

IP report N° TR 24042, dated 29 Jul 2024.

Test Report N° TR 24039, dated 29 Apr 2024.

**ADETESTS:**

Mechanical tests of shocks and vibration report N° R-ADE-ENN-17-300952-1/A(00), dated 02 Dec 2018.

Mechanical tests of shocks and vibration report N° R-ADE-ENN-18-300414-1/A(00), dated 07 Jun 2018.

**EMITECH:**

EMC Test Report N° RCE-EURESS22K064SOC-02AV0, dated 12 Feb 2024.

### 4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - BUREAU VERITAS Environmental Category, **EC Code: 33**

4.3 - The equipment fulfils the EMC requirements for installation in power distribution zone

4.4 - Only Hardware and Firmware / Software successfully tested together in compliance with the rules as referred to in cover page, according to the declaration of the manufacturer are covered by this certificate.

4.5 - Any modification of the hardware, firmware or software having an impact on the product performance or functionality has to be validated with type testing.

4.6 – Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The above are to be supplied by **SOCOMEK** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **SOCOMEK** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **SOCOMEK** has declared to Bureau Veritas the following production site:

**SOCOMEK**  
**1 RUE DE WESTHOUSE**  
**B.P. 10**  
**67235 BENFELD CEDEX**  
**FRANCE**

**6. MARKING OF PRODUCT :**

- Trade name.
- Date of manufacture and serial number.
- Equipment type or model identification under which it was type-tested

**7. OTHERS :**

It is **SOCOMEK**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

**\*\*\* END OF CERTIFICATE \*\*\***