



Marine & Offshore

Certificate number: 64771/A0 BV

File number: 64771/A0 BV

Product code: 2852I

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

EMMIS S.A.

KIFISIA - ATHENS - GREECE

for the type of product

AIR-COOLED TRANSFORMERS

Type: MAR/TC

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Naval Ships and Yachts.

IEC 60076-11 (2018)

IEC 60092-303 (1980)

IEC 61558-2-4 (2009)

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: 14 Jun 2026

For Bureau Veritas Marine & Offshore,

At BV PIRAEUS, on 14 Jun 2021,

Spyros KONTOULIS



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.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=0a0ukxvzei>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

MAR/TC is a three-phase dry low voltage Transformers.

Product's name:	MAR/TC
Rated power:	5 to 400 kVA
Number of phases:	3
Frequency:	50/60 Hz
Voltage:	Up to 1000V
Type:	Dry
Insulating class:	F
IP enclosure:	IP23
Cooling:	AN (normal air flow)

2. DOCUMENTS AND DRAWINGS:

Technical file N° 3F-0220 (v.1), dated 08 Feb 2021.

3. TEST REPORTS:

EMMIS S.A.:

Test report N° MAR/C 110110.0240240C 19-01, dated 18 Jul 2019.

Test report N° MAR/TC 11100400400400CDD-01, dated 27 Jan 2021.

HEEQAC S.A.:

Test report N° 504305-E, dated 09 Aug 2017.

Test report, dated 28 Aug 2017.

4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships, Naval Ships and Yachts.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **EMMIS S.A.** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, **EMMIS S.A.** has declared to Bureau Veritas the following production site:



EMMIS S.A.
11, Andreas Metaxas
145 64 KIFISIA - ATHENS
GREECE

6. MARKING OF PRODUCT:

6.1 - Maker's name or trade mark,

6.2 - Serial number of the units,

6.3 - Equipment type number or model identification under which it was type-tested,

6.4 -  or  conformity marking, as relevant.

7. OTHERS:

It is **EMMIS S.A.**'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 ***