Type Approval Certificate



[Generator Control & Protection Units]

Initial Approval 25 June 2002

Manufacturer DEIF A/S

Frisenborgvej 33, DK-7800 Skive, Denmark

Product Description Type : Uni-Line

" See Appendix 1"

Approval Condition "See Appendix 1"

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 1, Art. 109 of the Rules for Classification, Steel Ships.

This Certificate is valid until 24 June 2027 Issued at Busan, Korea on 7 February 2023



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2.
Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No(ME23004880712) and certificate No.(CPH06107-AC007).



KOREAN REGISTER



General Manager of Marine & Ocean Equipment Team

Note: 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.

^{2.} This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.

^{3.} Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.

^{4.} Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue: 7 February 2023

A. Product Description

1. Product Specification

Type	Name	data sheet Ref.
- Voltage rel RMV-112D RMV-122D RMV-132D RMV-142D	ays Under/over voltage protection Over voltage protection(2 levels) Under voltage protection(2 levels) Under voltage protection(2 levels) Under/over voltage protection(single phase)	4921240096D 4921240096D 4921240096D 4921240128D
- Overcurrent RMC-111D RMC-121D RMC-122D RMC-132D	and short circuit relays Short circuit relay Short circuit current relay Overcurrent and short circuit relay Dual overcurrent relay	4921240102D 4921240260A 4921240102D 4921240102D
- Overload/re RMP-111D RMP-112D RMP-121D	verse power relays Over load relay Overload/reverse power relay Reverse power relay	4921240108D 4921240110D 4921240106E
- Excitation RMQ-111D RMQ-121D	relays Loss of excitation relay Over excitation relay	4921240112D 4921240112D
- Synchronise FAS-113DG FAS-115DG FAS-125DG	rs Synchroniser without voltage matching Synchroniser with voltage matching Synchroniser with static synchronisation	4921240114D 4921240116D 4921240141D
- Load sharin LSU-112DG LSU-113DG LSU-114DG LSU-122DG	g units Load sharing unit Load sharing unit with reverse power protection Load sharing unit with auto. start/stop signals VAr load sharing unit	4921240118D 4921240120F 4921240122D 4921240124D
RMC-131D	Differential current relay	4921240104F
RMF-112D	Over/under frequency relay	4921240223A
HAS-111DG	Paralleling relay	4921240144D
EPN-110DN	Electronic potentiometer	4921240126E
RMT-111Q96	Phase sequence relay	4921240131E

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2. Approved Drawings and Documents

See Appendix 1. A. 1

3. Test Reports, etc.

See Appendix 1. A. 1 "

B. Approval Condition

1. Application & Limitation

1) This approval is granted on the basis of the approved drawings, data sheets, environmental test reports of Deif A/S (IACS UR E10 Rev. 8).

2. Individual Product Cert. and Drawing Approval Requirement 1) Individual Product Certification is not required.

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Certificate No: CPH06107-AC007 Appendix 1

Product Description and/or Approval Condition

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3. Marking1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others



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