



Certificate no.:
TAA00003SW

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

that the **Programmable Controller**

with type designation(s)
Sauer ECC3.0

issued to

J.P. Sauer & Sohn Maschinenbau GmbH
Kiel, Schleswig-Holstein, Germany

is found to comply with

DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security [2.2] Exclusion based on negligible risk

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

This type approval design certificate covers the criteria for exclusion from the mandatory application of Pt.6 Ch.5 Sec.21 Cyber security, subject to conditions stated in this certificate.

Issued at **Høvik** on **2026-02-04**

This Certificate is valid until **2028-02-03**.

for **DNV**

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Vinay Bhardwaj**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

The Sauer ecc 3.0 compressor control is an electronic control that controls and monitors the compressor. The micro controller is usually integrated into the door of the compressor control, or into the door on the model with a sound-proof canopy (Sauer-Com version).

It is operated using the keypad. The display and LED indicators signal the operating state of the compressor unit and also display alarm and error messages.

The Sauer ecc 3.0 compressor control complies with the requirements laid out for exclusion in DNV-RU-SHIP Pt.6 Ch.5 Sec.21 [2.2] (2024).

The following hardware comprising the above-mentioned system is covered by this certificate:

No.	Sub-unit	Part no.	Software no.	Software version
1.	Piston Compressor	Q1SAURHP/Y13SAUR01.00/ecc3.0	ecc3.0 MLC	E14 Rev.2
		Q1SAURHP/Y13SAUR01.00/MLC	{SY1368.00	
2.	Screw Compressor	Q1SAURSC/Y14SAUR01.00/ecc3.0	ecc3.0 MLC	E08 Rev.1
		Q1SAURSC/Y14SAUR01.00/MLC	{SY1514.00	

Application/Limitation

The following conditions shall be met when the Sauer ECC3.0 with MLC control unit is installed on board:

- Sauer Compressor control unit must be installed in Machinery space with access restrictions
- Purpose of MODBUS RTU usage is receiving Start and Stop commands

Marking of product

The type designation, serial numbers, part numbers shall be affixed in a way they are clearly visible on the onboarded for verification.

Type Approval documentation

- F071 Inventory list v1.0
- F011 Cyber security design description
- Risk assessment v1.0- for exclusion of CBS from the application of requirements (DNV-RU-SHIP PT.6 Ch.5 Sec.21)
- F031 Zone and conduit diagram v1.0

Renewal

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE