



Certificate No:
TAE00004G6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Miniature Circuit Breaker

with type designation(s)
C60H DC

Issued to

Schneider Electric Industries S.A.S.
Grenoble, France

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2022-04-28**

This Certificate is valid until **2027-04-27**.

DNV local station: **France CMC**

for **DNV**

Approval Engineer: **Nicolay Horn**

Trond Sjøvåg
Head of Section

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.



Form code: TA 251

Revision: 2021-03

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Page 1 of 3

Product description

C60H-DC is a miniature circuit breaker from 0.5A to 63A. C60H-DC is proposed in one pole and two pole versions to address voltages up to 500V DC.

The main characteristics of the C60H-DC range:

Type			C60H-DC	
Standard			IEC 60947-2	
Number of poles			1P	2P
Electrical characteristics				
Curve			C	
Ratings (A)		In	0.5 to 63A	
Maximum operational voltage (V)		Ue	DC	110/220/250V (1P) 220/440/500V (2P)
Insulation voltage (V AC)		Ui	500	
Rated impulse withstand voltage (Kv)		Uimp	6	
DC Breaking capacity			1P	2P
			Ue (DC)	
F100.63IEC 60947-2 (kA)	Icu	110V	20kA	-
		220V	10kA	20kA
		250V	6kA	-
		440V	-	10kA
		500V	-	6kA
	Ics	75 % of Icu		
Reference temperature IEC/EN 60947-2			30°C	
IP: Degree of protection (Device only)			IP20	

Application/Limitation

For installation inside switchboard, distribution board and control gear enclosures.

Environmental classes:

Vibration class	A
Humidity class	B
Temperature class	B

Type Approval documentation

Tests carried out

Type tested according to IEC 60947-2 (2006 4th edition) and (2016 5th edition), IEC 60695-11-5 (2016) and IACS E10.

Marking of product

Manufacturer name - Type designation – Data according to IEC 60947-2 specifications - date/manufacturing code

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.



Job Id: **262.1-036867-1**
Certificate No: **TAE00004G6**

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE