DNV·GL

Certificate No:
TAE00003Y8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Circuit Breaker

with type designation(s)
MasterPact "NW 10-20-40 EPDC-D"

Issued to
Schneider Electric Industries S.A.S.
Eybens, Isere, France

is found to comply with
DNV GL 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 GL.
Rated voltage (V) Up to 1100 DC
Rated current (A) 2000 - 4000

Issued at **Høvik** on **2021-01-19**
This Certificate is valid until **2026-01-18**.
DNV GL local station: **France CMC**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

Marta Alonso Pontes
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.

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Job Id: **262.1-033598-1**
Certificate No: **TAE00003Y8**

Name and place of manufacturer

Schneider Electric France MasterTech
ZA Centre'alp
Moirans
France

Product description

DC Circuit breaker including accessories with the following data:

		NW 10 DC		NW 20 DC		NW 40 DC	
Rated insulation voltage AC (V)		1250					
Rated impulse withstand voltage (kV)		12					
Rated operational voltage DC (V)		1100					
Ratedc current (A)		1000		2000		4000	
Rated. ultimate break. cap. (KA) Icu		N	H	N	H	N	H
L/R = 5 ms	500V	85	100	85	100	85	100
	750V	-	100	-	100	-	100
	900V	-	100	-	100	-	100
	1100V	-	100	-	100	-	100
L/R = 15 ms	500V	35	65	35	65	35	65
	750V	-	65	-	65	-	65
	900V	-	65	-	65	-	65
	1100V	-	65	-	65	-	65
Rated service break. cap. (KA) Ics %Icu		100					
Rated making cap. (KA) Icm %Icu 15 ms		100					
Short time withstand current Icw 1 sec		50	65	50	65	50	65
Utilization category		B					

Application/Limitation

Shall be installed and tested according to DNV GL Rules for Classification of Ships, High Speed & Light Craft and DNV GL Offshore Standards. The manufacturer's instructions to be observed.

Type Approval documentation

Tests carried out

IEC 60947-1 2007 + A1 2010 +A2 2014, IEC 60947-2 2016 + A1 2019, Environmental tests as inclination-, vibration-, cold-, dry heat-, damp heat, salt mist and EMC test.

Marking of product

Schneider Electric – Masterpact NW – DC and EPDC type D – manufacturing place (code date)

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is 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 Routines (RT) checked (if not available tests according to RT, 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.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE