TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00003CT
Revision No:
1

This is to certify:

That the Circuit Breaker

with type designation(s)
Masterpact NT

Issued to
Schneider Electric Industries SAS
Rueil Malmaison, **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.

Rated voltage (V)	**690**
Rated current (A)	**630 - 1600**

Issued at **Høvik** on **2024-02-19**

This Certificate is valid until **2028-06-30**.
DNV local unit: **France CMC**

Approval Engineer: **Nicolay Horn**

for **DNV**

Digitally Signed By: Sneen, Ståle
Location: DNV Høvik, Norway
on behalf of

Frederik Tore Elter
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.

Name and Place of manufacturer

Schneider Electric - Mastertech
Rue de la Grange Batie,
Z.I. Centr'Alp
38430 Moirans, France

Schneider Electric Alpes
Voie Isaac Newton, ZI Alpespace,
73800, Francin, France

Schneider Shangai Power Distribution Elec. App. co ltd,
833 Kang Qiao Lu Pu Dong
201315 Shangai, China

Product description

Air circuit breaker: Masterpact NT

	NT 06H1	NT 08H1	NT 10H1	NT 12H1	NT 16H1
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC (V)	690	690	690	690	690
Rated Current (A)	600	800	1000	1250	1600
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Rated Short-circuit Service Breaking cap. Ics (kA)					
690V	42	42	42	42	42
525V	42	42	42	42	42
440V	42	42	42	42	42
415V	42	42	42	42	42
240V	42	42	42	42	42
Rated Ultimate short- circuit Breaking cap. Icu (kA)					
690V	42	42	42	42	42
525V	42	42	42	42	42
440V	42	42	42	42	42
415V	42	42	42	42	42
240V	42	42	42	42	42
Rated Short-time Service withstand cap. Icw (kA/1 s)					
690V	42	42	42	42	42
525V	42	42	42	42	42
440V	42	42	42	42	42
415V	42	42	42	42	42
240V	42	42	42	42	42
Utilization category	B	B	B	B	B

	NT 06H2	NT 08H2	NT 10H2	NT 12H2	NT 16H2
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC (V)	690	690	690	690	690
Rated Current (A)	600	800	1000	1250	1600
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Rated Short-circuit Service Breaking cap. Ics (kA)					
690V	42	42	42	42	42
525V	42	42	42	42	42
440V	50	50	50	50	50
415V	50	50	50	50	50
240V	50	50	50	50	50
Rated Ultimate short- circuit Breaking cap. Icu (kA)					
690V	42	42	42	42	42
525V	42	42	42	42	42
440V	50	50	50	50	50
415V	50	50	50	50	50

	NT 06H2	NT 08H2	NT 10H2	NT 12H2	NT 16H2
240V	50	50	50	50	50
Rated Short-time Service withstand cap. Icw (kA/1 s)					
690V	36	36	36	36	36
Utilization category	B	B	B	B	B

	NT 06L1	NT 08L1	NT 10L1
Rated insulation voltage AC (V)	1000	1000	1000
Rated operational voltage AC (V)	525	525	525
Rated Current (A)	600	800	1000
Rated Frequency (Hz)	50-60	50-60	50-60
Rated Short-circuit Service Breaking cap. Ics (kA)			
525V	100	100	100
440V	130	130	130
415V	150	150	150
240V	150	150	150
Rated Ultimate short- circuit Breaking cap. Icu (kA)			
525V	100	100	100
440V	130	130	130
415V	150	150	150
240V	150	150	150
Utilization category	A	A	A

Technical data disconnecting switch:

	NT 06HA	NT 08HA	NT 10HA	NT 12HA	NT 16HA
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC (V)	690	690	690	690	690
Rated Current (A)	630	800	1000	1250	1600
Rated Frequency Hz	50-60	50-60	50-60	50-60	50-60
Rated operational current Ie(A) AC23A	630	800	1000	1250	1600
Rated operational current Ie(A) AC3	500	630	800	1000	1000
Short time making capacity Icm (kA)	75	75	75	75	75
Short time withstand current Icw 1s (kA)	36	36	36	36	36

Application/Limitation

Suitable for use in an IT system with a capacity of 1.2 times the maximum trip current at up to:
-440 V AC for NT 16 H1 & H2, up to 690 V for other ratings.
-525V AC for NT type L1

Type Approval documentation

Technical: Catalogue “Masterpact NT and NW” dated 2004 (Parts).
CIRCUIT BREAKER TPE MASTERPACT NT certification file

Test reports: LCIE Test Reports nos. 211990020 issued 2020-10-26., 22119Y90042 issued 2022-11-24
DEKRA test reports nos 2266478.01 dated 2022-04-21 and 2266490.0501 dated 2022-07-11
ASEFA test reports:.nos F01.04.06 & F01.04.07 dated 2004-09-10, nos. F01.04.08 & F01.04.11 dated 2004-09-30, nos. F01.04.09 & F01.04.10 dated 2004-07-16 & 23, nos. F03-CLIM040066-1Aa & -2Aa dated 2005-04-18 and F03-VIBR040061 A dated 2004-09-02.

Tests carried out

Type tests according to: IEC 60947-2 including Annex H, vibration test, cold test, dry heat test, damp heat test, salt mist test and EMC test.

Marking of product

Schneider Electric – Masterpact NT Circuit-Breaker–Type designation.

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 survey to be dealt with:

- Ensure that type approved documentation is available.
- Ensure that materials used comply with type approved documents and/or referenced material specifications.
- Review design, materials, performance and production process with respect to possible changes, in order to ensure compliance with the type approved documentation and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV Type Approval Certificate.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE