



# Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate supersedes certificate number 15/20006 (E2) issued on 07.06.2016 which is hereby cancelled.

This certificate is issued to:

**PRODUCER** Siemens AG  
Low Voltage  
Siemensstr. 10  
93055 Regensburg  
Germany

**DESCRIPTION** Moulded case circuit breaker SENTRON 3VA

**TYPES** 3VA1①②-③④⑤⑥  
① Model type/frame size: 0 = 100A, 1 = 160A  
② Rated current: 96, 20, 25, 32, 40, 50, 63, 80, 10, 12\*, 16\*, 02\*, 04\*, 08\*, 92\*  
(\*only 160A version)  
③ AIC-level: 2 (only 100A version), 3, 4, 5, 6 (only 160A version)  
④ Trip unit: ED, EE, EF, FD, FE, FF, GD, GE, GF, MG\*, MH\*  
(\*only 160A version)  
⑤ Number of poles: 1,2, 3, 4  
⑥ Connection technology: 2, 6

3VA5①②-③④⑤⑥  
① Model type/frame size:1 = 125A  
② Rated current: 95, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 10, 11, 12  
③ AIC-level: 4, 5, 6  
④ Trip unit: ED, EE, EF, FD, FE, FF, GD, GE, GF, MH, BB  
⑤ Number of poles: 1,2, 3, 4, 5, 6  
⑥ Connection technology: 1, 6

**Certificate No.** 15/20006 (E3)

**Issue Date** 22 October 2018

**Expiry Date** 11 February 2020

**Sheet** 1 of 6

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA  
LR031.1.2013.12

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



**TYPES continued**

**3VM1①②-③④⑤⑥**

- ① Model type/frame size: 0 = 100A, 1 = 160A
- ② Rated current: 08\*, 92\*, 96, 20, 25, 32, 40, 50, 63, 80, 10, 12\*, 16\* (\*only 160A version)
- ③ AIC-level: 2 (only 100A version), 3, 4, 5 (only 160A version)
- ④ Trip unit: ED, EE, GD, GE, MG\*, MH\* (\*only 160A version)
- ⑤ Number of poles: 1,2, 3, 4
- ⑥ Connection technology: 2, 6

**3VA1①②-③④⑤⑥**

- ① Model type/frame size: 2 = 250A
- ② Rated current: 16, 20, 25
- ③ AIC-level: 4 (S class), 5 (M class), 6 (H class)
- ④ Trip unit: EE, EF, FF, GE, GF, MH
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2, 6

**3VM1①②-③④⑤⑥**



- ① Model type/frame size: 2 = 250A
- ② Rated current: 16, 20, 25
- ③ AIC-level: 4 (S class), 5 (M class)
- ④ Trip unit: ED, EE, GD, GE, MH
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2, 6

**3VA5①②-③④⑤⑥**

- ① Model type/frame size: 2 = 250A
- ② Rated current: 95, 30, 35, 40, 45, 50, 60, 70, 80, 90, 10, 11, 12, 15, 17, 20, 22, 25
- ③ AIC-level: 5 (M class), 6 (H class), 7 (C class)
- ④ Trip unit: EF, FF, GF, BB
- ⑤ Number of poles: 3, 4, 6
- ⑥ Connection technology: 1

<b>Certificate No.</b>	15/20006 (E3)
<b>Issue Date</b>	22 October 2018
<b>Expiry Date</b>	11 February 2020
<b>Sheet</b>	2 of 6

Thorsten Wolff  
Hamburg Technical Support Office

Lloyd's Register

Lloyd's Register EMEA

LR031.1.2013.12

**Thorsten Wolff**  
Hamburg Technical Support Office  
Lloyd's Register EMEA

*Lloyd's Register EMEA*  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group



**TYPES continued**

**3VA1①②-③④⑤⑥**

- ① Model type/frame size: 3 = 400A, 4 = 630A
- ② Rated current: 25\*, 32\* (\*only 400A version), 40, 50\*\*, 63\*\* (\*\*only 630A version)
- ③ AIC-level: 4 (S class), 5 (M class), 6 (H class), 7 (C class)
- ④ Trip unit: EE, EF, FF, GE, GF, MH
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

**3VM1①②-③④⑤⑥**

- ① Model type/frame size: 3 = 400A, 4 = 630A
- ② Rated current: 25\*, 32\* (\*only 400A version), 40, 50\*\*, 63\*\* (\*\*only 630A version)
- ③ AIC-level: 4 (S class), 5 (M class)
- ④ Trip unit: EE, EF, GE, GF, MH
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

**3VA5①②-③④⑤⑥**

- ① Model type/frame size: 3 = 400A, 4 = 600A
- ② Rated current: 20\*, 22\*, 25\*, 30\*, 35\* (\*only 400A version), 40, 45\*\*, 50\*\*, 60\*\* (\*\*only 600A version)
- ③ AIC-level: 5 (M class), 6 (H class), 7 (C class)
- ④ Trip unit: EE, EF, FF, GE, GF, MH, BB
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

**3VA1①②-③④⑤⑥**

- ① Model type/frame size: 5 = 1000A
- ② Rated current: 63, 80, 10
- ③ AIC-level: 5 (M class), 6 (H class), 7 (C class)
- ④ Trip unit: EE, EF, FF, GE, GF, MH, BB
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

<b>Certificate No.</b>	15/20006 (E3)
<b>Issue Date</b>	22 October 2018
<b>Expiry Date</b>	11 February 2020
<b>Sheet</b>	3 of 6

Thorsten Wolff  
Hamburg Technical Support Office  
  
Lloyd's Register EMEA



**Thorsten Wolff**  
 Hamburg Technical Support Office  
 Lloyd's Register EMEA

Lloyd's Register EMEA  
 71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
 Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



**TYPES continued**

**3VA2①②-③④⑤⑥**

- ① Model type/frame size: 0 = 100A, 1 = 160A, 2 = 250A
- ② Rated current: 25\*, 40\*, 63\*, 10\*, 16\*\*, 20\*\*\*, 25\*\*\*  
(\*only 100A/160A version, \*\*only 160A/250A version, \*\*\*only 250A version)
- ③ AIC-level: 0, 1, 5, 6, 7, 8
- ④ Trip unit: HK, HL, HM, HN, JP, JQ, KP, KQ, MN, MP, MQ, MS
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2, 6

**3VA6①②-③④⑤⑥**

- ① Model type/frame size: 1 = 150A, 2 = 250A
- ② Rated current: 25\*, 30\*, 40\*, 50\*, 70\*, 80\*, 90\*, 10, 11\*\*, 12\*\*, 15\*\*, 20\*\*, 25\*\* (\*only 150A version, \*\*only 250A version)
- ③ AIC-level: 1, 5, 6, 7, 8
- ④ Trip unit: HL, HM, HN, JP, JQ, KL, KM, KP, KQ, KT, MS
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 1

**3VA2①②-③④⑤⑥**

- ① Model type/frame size: 3 = 400A, 4 = 630A
- ② Rated current: 25\*, 40, 50\*\*, 63\*\*  
(\*only 400A version, \*\*only 630A version)
- ③ AIC-level: 5, 6, 7
- ④ Trip unit: HL, HM, HK, HN, JP, JQ, KP, KQ, MN, MP, MQ, MS
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

**3VA6①②-③④⑤⑥**

- ① Model type/frame size: 3 = 400A, 4 = 600A
- ② Rated current: 20, 25\*, 40, 50\*\*, 60\*\*  
(\*only 400A version, \*\*only 600A version)
- ③ AIC-level: 1, 5, 6, 7, 8
- ④ Trip unit: HM, HN, JP, JQ, KL, KM, KP, KQ, KT, MS, BB
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 1

**Certificate No.**

15/20006 (E3)

**Issue Date**

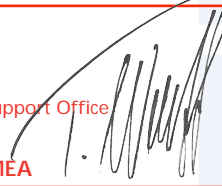

22 October 2018

**Expiry Date**

11 February 2020

**Sheet**

4 of 6



 Lloyd's Register  
 Thorsten Wolff  
 Hamburg Technical Support Office  
 Lloyd's Register EMEA

LR031.1.2013.12

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group



**TYPES continued**

3VA2①②-③④⑤⑥

- ① Model type/frame size: 5 = 1000A
- ② Rated current: 63, 80, 10
- ③ AIC-level: 5, 6, 7
- ④ Trip unit: HL, HM, HK, HN, JP, KQ, MN, MP, MQ, MS
- ⑤ Number of poles: 3, 4
- ⑥ Connection technology: 2

Accessories: 3VA9, 3VM9, 3VW9, 8UD display unit DSP800

**APPLICATION**

Marine applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2013.

**ADDITIONAL TEST**

Low temperature (-25°C/16hrs)

**SPECIFIED STANDARDS**

- IEC 60947-1 Ed.5.1: 2011
- IEC 60947-2 Ed.4.2: 2013
- IEC 60947-4-1 Ed.4.2: 2013
- IEC 60947-5-1 Ed.3.1: 2009

**OTHER CONDITIONS**

Correction factor for ambient air temperature above 50°C is to be obtained from manufacturer.

**PLACES OF PRODUCTION**

OEZ s.r.o.  
Sedivská 339  
561 51 Letohrad  
Czech Republic

Siemens Electrical Apparatus Ltd. Suzhou  
No.455, Zhu Jiang Road,  
New District, Suzhou, Jiangsu province,  
P.R. China

**Certificate No.**

15/20006 (E3)

**Issue Date**

22 October 2018

**Expiry Date**

11 February 2020

**Sheet**

5 of 6

Thorsten Wolff  
Hamburg Technical Support Office




Lloyd's Register

Lloyd's Register EMEA

LR031.1.2013.12

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group



Lloyd's  
Register

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ETS 37454-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 15/20006 (E3)  
**Issue Date** 22 October 2018  
**Expiry Date** 11 February 2020  
**Sheet** 6 of 6

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA  
LR031.1.2013.12

Thorsten Wolff  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA  
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.