



Lloyd's
Register

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 18/20026 issued on 10.04.2018 which is hereby cancelled.

This certificate is issued to:

PRODUCER	Siemens AG, Low Voltage Siemensstraße 10 93055 Regensburg Germany
DESCRIPTION	Transfer switching equipment
TYPES	3 K C 0 (II) (III) - 2 M E 0 0 - 0 A A 0 (frame size 1) (II) Poles 3 = 3 Poles 4 = 4 Poles (III) Nominal current 16 = 16 A 22 = 32 A 26 = 63 A 3 K C 0 (II) (III) - 2 N E 0 0 - 0 A A 0 (frame size 2) (III) Nominal current 28 = 80 A 30 = 100 A 32 = 125A 34 = 160A
Certificate No.	18/20026 (E1)
Issue Date	14 September 2018
Expiry Date	09 April 2023
Sheet	1 of 4



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

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TYPES continued

3 K C 0 (II) (III) - 0 P E 0 0 - 0 A A 0 (frame size 3)

(III) Nominal current

36 = 200 A

38 = 250 A

40 = 315 A

42 = 400 A

3 K C 0 (II) (III) - 0 Q E 0 0 - 0 A A 0 (frame size 4)

(III) Nominal current

44 = 500 A

46 = 630 A

48 = 800 A

3 K C 0 (II) (III) - 0 R E 0 0 - 0 A A 0 (frame size 5)

(III) Nominal current

50 = 1000 A

52 = 1250 A

54 = 1600 A

Accessories

3 K C 9 (II) (III)

(II) Size:

1 = frame size 1

2 = frame size 2

3 = frame size 3

4 = frame size 4

5 = frame size 5

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 Lloyd's Register
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LR031.1.2013.12

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TYPES continued

(III) Type of Accessory:

01 = Direct handle

04 = Cable connection cover / terminal shrouds

18 = Bridging bar - DC line, for series connection of 2 poles

20 = Mounting kit for floor mounting

3KD9304 Cable connection cover:

3KD9308 Phase barriers

8UD1 Door handle

Auxiliary switch:

3KD9103-1= Auxiliary contacts (DB2 with soldered cable 50cm) 1NO+1NC

3KD9103-2= Auxiliary contacts (DB2 without cable) 1NO + 1NC

3KD9103-3= Auxiliary contacts (DB3 with soldered cable 50cm) 1NO+1NC

3KD9103-4= Auxiliary contacts (DB3 without cable) 1NO + 1NC

3KD9103-5= Auxiliary switch pole (for NO+NC)

3SB34 00 0B = 1 NO

3SB34 00 0BA = 1 NO, gold plate

3SB34 00 0D = 2 NO

3SB34 00 0DA = 2 NO, gold plate

3SB34 00 0C = 1 NC

3SB34 00 0CA = 1 NC, gold plate

3SB34 00 0E = 2 NC

3SB34 00 0EA = 2 NC, gold plate

3SB34 00 0A = 1 NO + 1 NC

3SB34 00 0AA = 1 NO + 1 NC, gold plate

3SU1400-1AA10-1BA0 = 1NO

3SU1400-1AA10-1LA0 = 1NO, gold plate

3SU1400-1AA10-1DA0 = 2 NO

3SU1400-1AA10-1NA0 = 2 NO, gold plate

3SU1400-1AA10-1CA0 = 1NC

3SU1400-1AA10-1MA0 = 1NC, gold plate

3SU1400-1AA10-1EA0 = 2NC

3SU1400-1AA10-1PA0 = 2NC, gold plate

3SU1400-1AA10-1FA0 = 1NO + 1NC

3SU1400-1AA10-1QA0 = 1NO + 1NC, gold plate

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APPLICATION Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July 2015.

ADDITIONAL TESTS Low temperature (-25°C/16hrs)

STANDARD IEC 60947-6-1:2005 + A1:2013
IEC 60947-1:2007 + A1:2010 + A2: 2014
IACS Unified Requirements E10, Rev. 6, Oct 2014

RATINGS

Frame size	1	2	3	4	5
Rated operational voltage U_e (V AC)	415	415	415	415	415
Rated frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV)	8	8	12	12	12
Rated operational current I_e (A)	16,32,63	80,100, 125,160	200,250, 315,400	500,630, 800	1000,1250, 1600
Conventional free air thermal current I_{th} (A)	max. 63	max. 160	max. 400	max. 800	max.1600
Rated short-circuit withstand current I_{cw} (kA)	5/100ms	10/100ms	18/100ms	30/100ms	50/100ms
Rated short-circuit making capacity I_{cm} (kA)	7.7	17	36	63	105

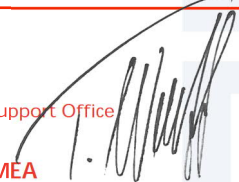
PLACE OF PRODUCTION Siemens Electrical Apparatus Ltd.
455 Zhujiang Road, Suzhou
Jiangsu Province 215129
China

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 37353-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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