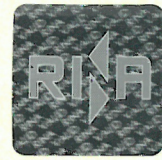




# TYPE APPROVAL CERTIFICATE



N. ELE302918CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system.

<b>Description</b>	<b>Circuit Breakers</b>
<b>Type</b>	<b>5SY4; 5SY6; 5SY7</b>
<b>Applicant</b>	<b>Siemens S.p.A Viale Piero e Alberto Pirelli, 10 20126 Milano Italy</b>
<b>Manufacturer</b>	<b>Siemens AG Siemensstrasse, 10 93055 Regensburg Germany</b>
<b>Testing Standards</b>	<b>RINA Rules for the Classification of Ships. IEC 60947-1:2007; IEC60947-1:2007/AMD1:2010 IEC 60947-1:2007/AMD2:2014 IEC 60947-2:2016; EN 60898-1 (ed.2)</b>

Issued in **Genova** on **November 23, 2018**

This certificate is valid until **November 23, 2023**

RINA Services S.p.A.



## N. ELE302918CS

### General product information:

Circuit breaker Series **5SY4**, **5SY6**, **5SY7** with auxiliary devices:

5ST301: auxiliary contact ; 5ST302: tripping signalling contact; 5ST303: open coil ; 5ST304: undervoltage coil

### Compliance with IEC 60898-1

Circuit breaker type	5SY6						
Number of poles		1P	1P+N	2P	3P	3P+N	4P
Rated Voltage (Ue)	V	230/400	230	400	400	400	400
Rated Current (In)	A	2-63A (B); 0,3-63A (C); 0,3-63A (D)					
Ambient temperature	°C	30°C					
Rated Frequency	Hz	50 - 60 Hz					
Trip Curves		type B, C, D					
Short circuit breaking capacity (Icn)	kA	6 kA					

Circuit breaker type	5SY4						
Number of poles		1P	1P+N	2P	3P	3P+N	4P
Rated Voltage (Ue)	V	230/400	230	400	400	400	400
Rated Current (In)	A	2-63A (B); 0,3-63A (C); 0,3-63A (D)					
Ambient temperature	°C	30°C					
Rated Frequency	Hz	50-60 Hz					
Trip Curves		type B, C, D					
Short circuit breaking capacity (Icn)	kA	10 kA					

Circuit breaker type	5SY7						
Number of poles		1P	1P+N	2P	3P	3P+N	4P
Rated Voltage (Ue)	V	230/400	230	400	400	400	400
Rated Current (In)	A	2-63A (B); 0,3-63A (C); 0,3-63A (D)					
Ambient temperature	°C	30°C					
Rated Frequency	Hz	50-60 Hz					
Trip Curves		type B, C, D					
Short circuit breaking capacity (Icn)	kA	15 kA					



## N. ELE302918CS

Compliance with IEC 60947-2

Circuit breaker type	5SY6
Number of poles	1, 1+N, 2, 3, 3+N, 4
Rated Voltage (Ue)	230/400Vac (1 pole), 230Vac (1+N pole), 400Vac (2, 3, 3+N, 4 poles)
Rated Current (In)	0.5-63 (for A), 2-63A (for B); 0.3-63A (for C, D)
Ambient temperature	45 °C
Rated Frequency	50-60 Hz
Service short-circuit breaking capacity (Ics)	23kA (0.3A-6A), 8kA (8A-32A), 8kA (35A-63A)
Ultimate short-circuit breaking capacity (Icu)	30kA (0.3A-6A), 15kA (8A-32A), 10kA (35A-63A)
Short-circuit making capacity (Icm)	63kA (0.3A-6A), 30kA (8A-32A), 17kA (35-63A)
Utilization category	A

Circuit breaker type	5SY4
Number of poles	1, 1+N, 2, 3, 3+N, 4
Rated Voltage (Ue)	230/400Vac (1 pole), 230Vac (1+N pole), 400Vac (2, 3, 3+N, 4 poles)
Rated Current (In)	0.5-63A (for A); 2-63A (for B); 0.3-63A (for C, D)
Ambient temperature	45 °C
Rated Frequency	50-60 Hz
Service short-circuit breaking capacity (Ics)	27kA (0.3A-6A), 10kA (8A-32A), 8kA (35A-63A)
Ultimate short-circuit breaking capacity (Icu)	35kA (0.3A-6A), 20kA (8A-32A), 15kA (35A-63A)
Short-circuit making capacity (Icm)	73.5kA (0.3A-6A), 40kA (8A-32A), 30kA (35A-63A)
Utilization category	A

Circuit breaker type	5SY7
Number of poles	1, 1+N, 2, 3, 3+N, 4
Rated Voltage (Ue)	230/400Vac (1 pole), 230Vac (1+N pole), 400Vac (2, 3, 3+N, 4 poles)
Rated Current (In)	0.5-63A (for A), 2-63A (for B), 0.3-63A (for C, D)
Ambient temperature	45 °C
Rated Frequency	50-60 Hz
Service short-circuit breaking capacity (Ics)	38kA (0.3A-2A), 30kA (3A-6A), 23kA (8A-10A), 13kA (13A-32A) 10kA (40A-63A) for 0.3-63A, B, C 8kA (50A-63A) for D, 10kA (40A) for D
Ultimate short-circuit breaking capacity (Icu)	50kA (0.3A-2A), 40kA (3A-6A), 30kA (8A-10A), 25kA (13A-32A) 20kA (40A-63A) for B, C 15kA (50A-63A) for D, 20kA (40A) for D
Short-circuit making capacity (Icm)	105kA (0.3A-2A), 84kA (3A-6A), 63kA (8A-10A), 53kA (13A-32A) 40kA (40A-63A) for B, C 30kA (50A-63A) for D, 40kA (40A) for D
Utilization category	A

### Reference documents:

IECEE CB Test Certificate n. DE1-56223 (2015-11-11) \_ (IEC 60898-1 ed. 2)  
VDE Test Report n. 208785-CC2 -000 to -155

IECEE CB Test Certificate n. DE1-58303 (2017-02-15) \_ IEC60947-1:2007; IEC60947-1:2007/AMD1:2010  
IEC 60947-1:2007/AMD2:2014; IEC 60947-2:2016;  
VDE Test Report n. 224998-CC2-1  
ECS test report Summary