



Certificate No. 03-002155/031861

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

Miniature circuit breakers

5SY

MANUFACTURER:

Siemens AG
Siemensstraße 10
93055 Regensburg
GERMANY

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS Rules for the classification of ships, Part 12. – Electrical equipment

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2029-09-01**

Place and date: Split, 2025-09-01 Seal _____

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

		5SY6	5SY4	5SY7
Basic data				
Breaking capacity I_{cn}				
For AC (230/400 V) acc. to IEC/EN 60898-1	kA	6	10	15
For DC (220/440 V) acc. to IEC/EN 60898-2	kA	-	-	-
Rated breaking capacity I_{cu}				
Acc. to IEC/EN 60947-2 AC				
at U_e 230 V at U_e 400 V				
I_n 0.3...2 A	kA	30 30	35 35	50 50
I_n 3...6 A	kA	30 30	35 35	40 40
I_n 8...10 A	kA	15 15	20 20	30 30
I_n 13...32 A	kA	15 15	20 20	25 25
I_n 35...40 A	kA	10 10	15 15	20 20
I_n 50...63 A	kA	10 10	15 15	15 15
I_n 80...125 A	kA	- -	10 10	- -
Acc. to IEC/EN 60947-2 DC	kA	-	-	-
Rated current	A	0.3 ... 63	0.3 ... 80	0.3 ... 63
Number of poles		1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic		B C	A B C D	B C D
Voltage / frequency				
Rated voltage AC	V	230/400	230/400	230/400
Max. operational voltage AC	V	250/440	250/440	250/440
Rated voltage DC per phase pole	V	60	60	60
Max. operational voltage DC per phase pole	V	72 ¹⁾	72 ¹⁾	72 ¹⁾
Rated impulse voltage U_{imp}	kV	4	4	4
Rated frequency f_n	Hz	50/60	50/60	50/60
Ambient conditions				
Ambient temperature	°C	-25 ... +55 ²⁾	-40 ... +70 ³⁾	-40 ... +70 ³⁾
Storage temperature	°C	-40 ... +75 ³⁾	-40 ... +75 ³⁾	-40 ... +75 ³⁾
Degree of pollution for overvoltage category		3/III	3/III	3/III

¹⁾ Exempt: C/D 0.3 A ... 0.5 A

²⁾ Max. 95% humidity

³⁾ 95% humidity up to 55 °C, 55% humidity up to 70 °C, 30% humidity up to 75 °C

APPLICATION / LIMITATIONS:

The product is to be installed inside switchboards or other enclosures.

TYPE APPROVAL DOCUMENTATION:

- Siemens Catalog LV10 – 10/2023
- Datasheets: 5SY4110-7, 5SY5210-7, 5SY8110-7
- Declaration of conformity Siemens 00267B
- Equipment manual Siemens – SENTRON 5SY Miniature Circuit Breakers, 09/2024
- Type test certificate VDE 40017097 – 5SY6/5SY4/5SY7 – IEC 60898-1, IEC 62019

MARKING OF PRODUCT:

In accordance with IEC 60898-1 – Marking (manufacturer's name or trademark, type designation or serial number, number of the relevant product standard, rated operational voltage, utilization category and rated operational currents, ...).

CONDITIONS FOR CERTIFICATION:

No.