

Miniature Circuit Breakers		Residential buildings and infrastructure applications					Univ. current	Mechanical engineering and industrial requirements						
		5SL6	5SL4	5SJ6...-KS	5SY60	5SP3	5SY5	5SY6	5SY4	5SY4...-KK11	5SY7	5SY8	5SP4	5SJ4...HG...
Approvals														
Product standard		IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	DIN VDE 0641-21	IEC/EN 60898-2	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60947-2	IEC/EN 60898-1	UL489, IEC/EN 60947-2
VDE	Germany, Europe	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓
CEBEC	Belgium	✓	✓	-	-	-	-	-	-	-	-	-	-	-
LCIE (NF)	France	-	-	-	✓	-	-	-	-	-	-	-	-	-
IMQ	Italy	✓	-	-	✓	-	-	✓	✓	-	✓	-	-	-
GOST	Russia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TR	Russia	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
	USA	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	-
	USA, Canada	-	-	-	✓	-	-	✓	✓	-	✓	✓	-	-
	USA	-	-	-	✓	-	-	✓	✓	-	✓	✓	-	✓
	USA, Canada	-	-	-	-	-	-	-	-	-	-	-	-	✓
CCC	China	-	-	-	✓	-	✓	✓	✓	-	✓	-	✓	✓
Marine classifications														
GL	Germany	-	-	-	-	-	-	✓ ¹⁾	✓ ¹⁾	-	✓ ¹⁾	-	✓	-
BV	France	-	-	-	-	-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
LRS	United Kingdom	-	-	-	-	-	-	✓ ^{1) 2)}	✓ ^{1) 2)}	-	✓ ¹⁾	-	✓	-
RINA	Italy	-	-	-	-	-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
DNV	Norway	-	-	-	-	-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
Switching capacity														
I_{cn} acc. to IEC/EN 60898-1 (kA AC)		6	10	6	6	-	10	6	10	10	15	-	10	10
I_{cn} acc. to IEC/EN 60898-2 (kA DC)		-	-	-	-	-	10	-	10	10	15	-	10	-
I_{cu} acc. to IEC/EN 60947-2 (kA AC)		6	10	-	-	-	10...35 ³⁾	10...35 ³⁾	10...35 ³⁾	10...35 ³⁾	15...50 ³⁾	20...70 ³⁾	10	15
acc. to UL1077 and CSA C22.2 No.235 (kA AC)		-	-	-	-	-	-	5	5	5	5	5	5	-
acc. to UL 489 and CSA C22.2 No. 5-02 (kA AC)		-	-	-	-	-	-	-	-	-	-	-	-	10/14 ³⁾
acc. to DIN VDE 0641-21		-	-	-	-	25	-	-	-	-	-	-	-	-
Operational voltage														
max. V DC/pole, acc. to EN 60898-1/-2 and EN 60947-2		60	60 ⁴⁾	60	72	-	250	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	60
max. V AC, acc. to EN 60898-1/-2 and EN 60947-2		250/440	250/440	250/440	250	-	250/440	250/440	250/440	250/440	250/440	250/440	250/440	250/440
max. V AC acc. to UL 1077 and CSA C22.2 No.235 – supplementary protection		-	-	-	-	-	-	480/277	480/277	480/277	480/277	480/277	480/277	-
Rated voltage V AC acc. to UL 489 – branch circuit protection		-	-	-	-	-	-	-	-	-	-	-	-	480/277
Harsh ambient conditions														
Shock acc. to IEC 60068-2-27 150m/s ² at 11ms half-sine		-	-	-	-	-	✓	✓	✓	✓	✓	-	-	✓
Vibration resistance acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 sec)		-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Fire protection values acc. to EN 45545-2 (fire protection in rail vehicles)		-	-	-	-	-	-	-	-	✓	-	-	✓	-
Resistant to vibrations and shocks acc. EN 61373 and EN 50155 "1B" (railway technology)		-	-	-	-	-	-	-	-	✓	-	-	-	-
Ambient temperature -40 °C to +70 °C		-	-	-	-	-	-	-	-	✓	-	-	-	-
Pollution degree for overvoltage category		2/III	2/III	2/III	2/III	3/IV	3/III	3/III	3/III	3/III	3/III	3/III	3/III	3/III
Application areas														
Char. A – Semiconductor protection		-	-	-	-	-	-	✓	✓	-	-	-	-	-
Char. B – Mainly in residential building installations		✓	✓	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓
Char. C – Higher starting currents (e.g. lamps, motors)		✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓
Char. D – Pulse-generating equipment (e.g. transformers, solenoid valves)		-	✓	-	-	-	-	-	✓	-	✓	✓	✓	✓
Char. E – Selective main miniature circuit breakers		-	-	-	-	✓	-	-	-	-	-	-	-	-
Other applications														
1+N in 1MW		-	-	-	✓	-	-	-	-	-	-	-	-	-
Plug-in terminals		-	-	✓	-	-	-	-	-	-	-	-	-	-
Selective main miniature circuit breakers		-	-	-	-	✓	-	-	-	-	-	-	-	-
Additional components														
Auxiliary contacts, fault signal contacts		✓	✓	-	✓	-	✓	✓	✓	✓	✓	✓	-	-
Shunt releases, undervoltage releases		-	✓	-	-	-	✓	✓	✓	✓	✓	✓	-	-
AFDD		-	✓	-	-	-	-	✓	✓	-	-	-	-	-
Additional components UL (...HG)		-	-	-	-	-	-	-	-	-	-	-	-	✓

¹⁾ without D char. ²⁾ In ≤ 63A ³⁾ For switching capacity: Detailed information is available in the Configuration Manual "Miniature Circuit Breakers" at: www.siemens.com/lowvoltage/manual ⁴⁾ Except C 0.3 ... 1A, D 0.3 ... 2A ⁵⁾ Except C 0.3 A and D 0.3 ...0.5A

