

Miniature Circuit Breakers		Residential buildings and infrastructure applications					Univ. current	Mechanical engineering and industrial requirements					
		5SL6	5SL4	5SJ6...-KS	5SL60	5SP3	5SY5	5SY6	5SY4	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 60947-2	IEC/EN 60898-1	UL489, IEC/EN 60947-2
VDE	Germany, Europe	•	•	•	•	•	•	•	•	•	-	•	•
CEBEC	Belgium	•	•	-	-	-	-	-	-	-	-	-	-
NF	France	-	-	-	•	-	-	-	-	-	-	-	-
IMQ	Italy	-	•	-	•	-	-	•	•	•	-	-	-
	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_{cs} acc. to IEC/EN 60898-1 (kA AC)		6	10	6	6	-	10	6	10	15	-	10	10
I_{cs} acc. to IEC/EN 60898-2 (kA DC)		-	-	-	-	-	10	-	10	15	-	10	-
I_{cs} acc. to IEC/EN 60947-2 (kA AC)		6	10	-	-	-	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
acc. to UL 489 and CSA C22.2 No. 5-02 (kA AC)		-	-	-	-	-	-	-	-	-	-	-	-
acc. to DIN VDE 0641-21		-	-	-	-	25	-	-	-	-	-	-	-
Voltages/Frequency													
Rated voltage AC (V)		230/400	230/400	230/400	230	230/400	230/400	230/400	230/400	230/400	230/400	230/400	230/400
Acc. to UL 489, UL 1077, CSA C22.2 No.235 277/480 277/480		-	-	-	-	-	277/480	277/480	277/480	277/480	277/480	277/480	240/415 (5SJ4..HG40/41) 277/480 (5SJ4..HG42)
Max. operational voltage AC (V)		250/440	250/440	250/440	250	250/440	250/440	250/440	250/440	250/440	250/440	250/440	250/440
Rated voltage DC (V)		60	60	60	60	-	220/440	60	60	60	60	60	60
Max. operational voltage DC (V)		72	72	72	72	-	250/500	72	72	72	72	72	72
Rated impulse voltage U_{imp} (kV)		4	4	4	4	6	4	4	4	4	4	4	4
Rated frequency f_n (Hz)		50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Harsh ambient conditions													
Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms 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. to 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
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		1TE	-	-	-	•	-	-	-	-	-	-	-
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⁾ $I_n \leq 63 A$ 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 ... 1 A, D 0.3 ... 2 A ⁵⁾ Except C 0.3 A and D 0.3 ... 0.5 A