

SIEMENS







SENTRON

Miniature Circuit Breakers Overview

SENTRON Protection, Switching, Measuring and Monitoring Devices

Answers for infrastructure and cities.

Miniature Circuit Breakers		Residential buildings and infrastructure applications			
		5SL6	5SL4	5SJ6...-KS	5SY60
Approvals					
Product standard		IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1
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	-	-	-	-
BV	France	-	-	-	-
LRS	United Kingdom	-	-	-	-
RINA	Italy	-	-	-	-
DNV	Norway	-	-	-	-
Switching capacity					
I_{cn} acc. to IEC/EN 60898-1 (kA AC)		6	10	6	6
I_{cn} acc. to IEC/EN 60898-2 (kA DC)		-	-	-	-
I_{cu} acc. to IEC/EN 60947-2 (kA AC)		6	10	-	-
acc. to UL1077 and CSA C22.2 No.235 (kA AC)		-	-	-	-
acc. to UL 489 and CSA C22.2 No. 5-02 (kA AC)		-	-	-	-
acc. to DIN VDE 0641-21		-	-	-	-
Operational voltage					
max. V DC/pole, acc. to EN 60898-1/-2 and EN 60947-2		60	60 ⁴⁾	60	72
max. V AC, acc. to EN 60898-1/-2 and EN 60947-2		250/440	250/440	250/440	250
max. V AC acc. to UL 1077 and CSA C22.2 No.235 - supplementary protection		-	-	-	-
Rated voltage V AC acc. to UL 489 - branch circuit protection		-	-	-	-
Harsh ambient conditions					
Shock acc. to IEC 60068-2-27 150m/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. 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
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

ions	Univ. current 5SP3	Mechanical engineering and industrial requirements						
		5SY5	5SY6	5SY4	5SY4...-KK11	5SY7	5SY8	5SP4
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
✓	✓	✓	✓	✓	✓	-	✓	✓
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	✓	✓	-	✓	-	-	-
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	-
-	-	✓	✓	-	✓	✓	✓	-
-	-	✓	✓	-	✓	✓	-	-
-	-	✓	✓	-	✓	✓	-	✓
-	-	-	-	-	-	-	-	✓
-	✓	✓	✓	-	✓	-	✓	✓
-	-	✓ ¹⁾	✓ ¹⁾	-	✓ ¹⁾	-	✓	-
-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
-	-	✓ ¹⁾²⁾	✓ ¹⁾²⁾	-	✓ ¹⁾	-	✓	-
-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
-	-	✓ ²⁾	✓ ²⁾	-	✓	-	-	-
-	10	6	10	10	15	-	10	10
-	10	-	10	10	15	-	10	-
-	10...35 ³⁾	10...30 ³⁾	10...35 ³⁾	10...35 ³⁾	15...50 ³⁾	20...70 ³⁾	10	15
-	-	5	5	5	5	5	5	-
-	-	-	-	-	-	-	-	10/14 ³⁾
25	-	-	-	-	-	-	-	-
-	250	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	72 ⁵⁾	60
-	250/440	250/440	250/440	250/440	250/440	250/440	250/440	250/440
-	-	480/277	480/277	480/277	480/277	480/277	480/277	-
-	-	-	-	-	-	-	-	480/277
-	✓	✓	✓	✓	✓	-	-	✓
-	✓	✓	✓	✓	✓	✓	✓	✓
-	-	-	-	✓	-	-	✓	-
-	-	-	-	✓	-	-	-	-
-	-	-	-	✓	-	-	-	-
3/IV	3/III	3/III	3/III	3/III	3/III	3/III	3/III	3/III
-	-	✓	✓	-	-	-	-	-
-	✓	✓	✓	✓	✓	-	✓	✓
-	✓	✓	✓	✓	✓	✓	✓	✓
-	-	-	✓	-	✓	✓	✓	✓
✓	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
✓	-	-	-	-	-	-	-	-
-	✓	✓	✓	✓	✓	✓	-	-
-	✓	✓	✓	✓	✓	✓	-	-
-	-	✓	✓	-	-	-	-	-
-	-	-	-	-	-	-	-	✓

Siemens AG
Infrastructure & Cities Sector
Low and Medium Voltage Division
Low Voltage
Postfach 10 09 53
93009 Regensburg
Germany

Order No.: E10003-E38-3B-D0060-7600
Dispo 25602 • 0913 • 2.0

Subject to change without prior notice.
The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All rights reserved.
All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.
© Siemens AG 2013