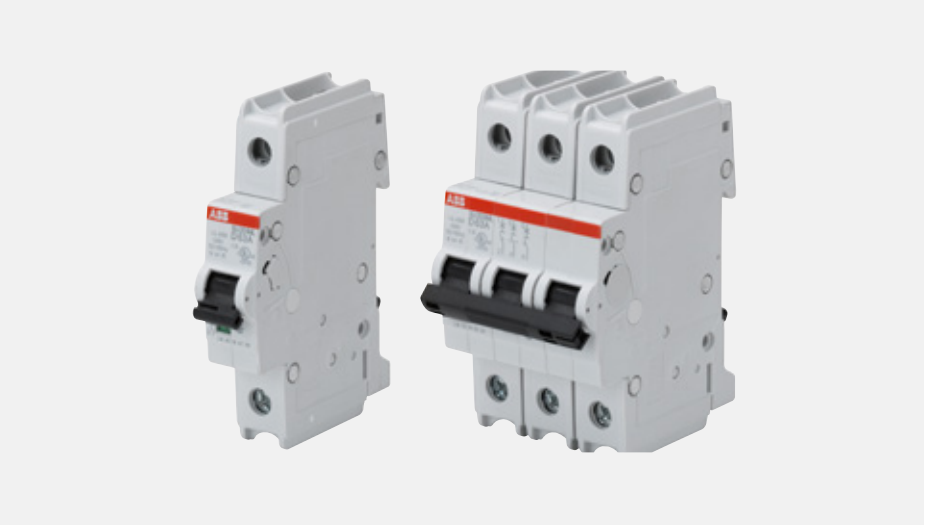
MINIATURE CIRCUIT BREAKERS

SU200ML data sheet

System pro M compact™ miniature circuit breakers for branch circuit protection acc. to UL 489



The miniature circuit breaker SU200ML is ABB's solution for UL 489 branch circuit protection up to 240 V AC and 96 V DC. This circuit breaker is an all-round device for AC and DC applications for universal use in North American and global markets due to its approvals acc. to the international standards UL, CSA and IEC. Moreover, SU200ML is fully compatible with System pro M compact™ UL 489 accessories.

Features

- High performance MCB with 14 kA interrupting capacity acc. to UL 489 / CSA 22.2 No. 5 and 15 kA breaking capacity acc. to IEC/EN 60947-2
- Certified for AC and DC use acc. to UL and CSA
- 40 °C reference temperature acc. to UL and CSA
- Current limiting acc. to UL 489
- Clear contact position indication in red/green ("real CPI")

Standards and approvals

Standards	
UL 489	
CSA 22.2 No. 5	
IEC/EN 60947-2	
Approvals	
UL 489	US
CSA 22.2 No. 5	CA
VDE	DE
CCC	CN

Miniature Circuit Breaker SU200ML

Technical data

1) Also fulfilling the requirement acc. to the protection degree IPXXB

General Data		
Standards		IEC/EN 60947-2 (Approvals: CB report, VDE, CCC) UL489, CSA 22.2 No. 5 (Approvals: UL, CSA)
Poles		1P, 2P, 3P, 4P
Tripping characteristics		C, K, Z
Rated current I_n	A	0.2…63 A
Rated frequency f	Hz	50 / 60 Hz
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	440 V AC
Overvoltage category		III
Pollution degree		3
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	1P: 230 V AC 2P, 3P, 4P: 400 V AC
Max. power frequency recovery voltage (U_{max})	V	1P: 253/440 V AC 2P, 3P, 4P: 440 V AC 1P: 48 V DC; 2P: 96 V DC
Min. operating voltage	V	12 V AC, 12 V DC
Rated ultimate short-circuit breaking capacity I_{cu}	kA	15 kA
Rated service short-circuit breaking capacity I_{cs}	kA	≤ 40 A: 11.25 kA > 40 A: 7.5 kA
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectric test voltage	kV	2 kV (50/60 Hz, 1 min.)
Reference temperature for tripping characteristics	°C	30 °C
Electrical endurance	ops.	I_n < 30 A: 20,000 ops (AC), I_n ≥ 30 A: 10,000 ops. (AC); 1,000 ops. (DC); 1 cycle (2s - ON, 13s - OFF, I_n ≤ 32 A), 1 cycle (2s - ON, 28s - OFF, I_n > 32 A)
Data acc. to UL / CSA		
Rated voltage	V	1P, 2P, 3P, 4P: 240 V AC 1P: 48 VDC; 2P: 96 V DC (2p in series)
Rated interrupting capacity acc. to UL 1077	kA	–
Short-circuit current rating acc. to UL 489	kA	14 kA
Reference temperature for tripping characteristics	°C	40 °C
Electrical endurance	ops.	6,000 ops (AC), 6,000 ops. (DC); 1 cycle (1s - ON, 9s - OFF)
Mechanical Data		
Housing		Insulation group II, RAL 7035
Toggle		Insulation group II, black, sealable
Contact position indication		CPI (red ON / green OFF)
Protection degree acc. to EN 60529		IP20 [1], IP40 in enclosure with cover
Mechanical endurance	ops.	20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27		25 g - 2 shocks - 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6		5g - 20 cycles at 5…150…5 Hz with load 0.8 I_n
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%
Ambient temperature	°C	-25 … +55 °C
Storage temperature	°C	-40 … +70 °C
Installation		
Terminal		Failsafe bi-directional cylinder-lift terminal
Cross-section of conductors (top / bottom)	mm^2	35 mm^2 / 35 mm^2
Flexible (if different)	mm^2 AWG	25 mm^2 / 25 mm^2 18 - 4 AWG
Cross-section of busbars (top / bottom)	mm^2 AWG	10 mm^2 / 10 mm^2 18 - 8 AWG
Tightening Torque	Nm in.lbs.	2.8 Nm AWG 18-16: 8.85 in-lbs. AWG 14-10: 17.7 in-lbs. AWG 8-4: 39.8 in-lbs.
Screwdriver		No. 2 Pozidrive
Mounting		On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position		any
Supply		optional
Dimensions and weight		
Mounting dimensions acc. to DIN 43880		Mounting dimension 3
Pole dimensions (H x D x W)	mm	95 x 69 x 17.5 mm
Pole weight	g	approx. 120 g
Combination with aux. elements		
Auxiliary contact		Yes
Signal contact		Yes
Shunt trip		Yes

Miniature Circuit Breaker SU200ML

Tripping characteristics

Tripping characteristics

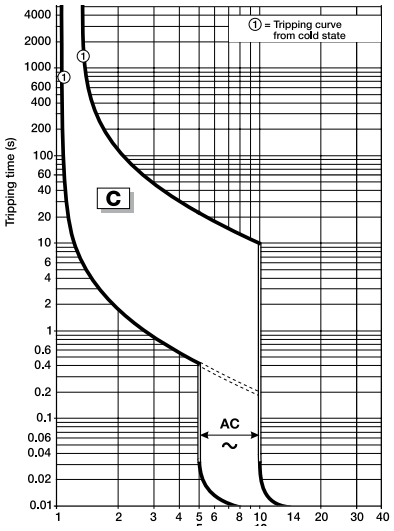
Acc. to	Tripping characteristics	Rated current	Thermal release [1] Currents:		Tripping time	Electromagnetic release [2] Range of instantaneous tripping		Tripping time
			conventional non-tripping current	conventional tripping current				
		I_n	I_1	I_2				
IEC/EN 60947-2	C	0.5 to 63 A	1.05 · I_n		> 1 h	5 · I_n		> 0.2 s
				1.3 · I_n	< 1 h [3]		10 · I_n	< 0.2 s
	K	0.2 to 63 A	1.05 · I_n		> 1 h	10 · I_n		> 0.2 s
				1.3 · I_n	< 1 h [3]		14 · I_n	< 0.2 s
	Z	0.5 to 63 A	1.05 · I_n		> 1 h	2 · I_n		> 0.2 s
				1.3 · I_n	< 1 h [3]		3 · I_n	< 0.2 s

1) The thermal releases are calibrated to a nominal reference ambient temperature e.g. for UL 489 of 40 °C. In the case of higher ambient temperatures, the current values decrease by approx. 4 % for each 10 K temperature rise.

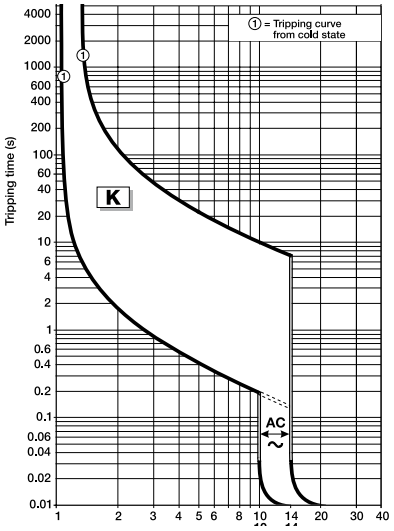
2) The indicated tripping values of electromagnetic tripping devices apply to a frequency of 50/60 Hz. The thermal release operates independent of frequency.

3) As from operating temperature (after I_1 > 1 h)

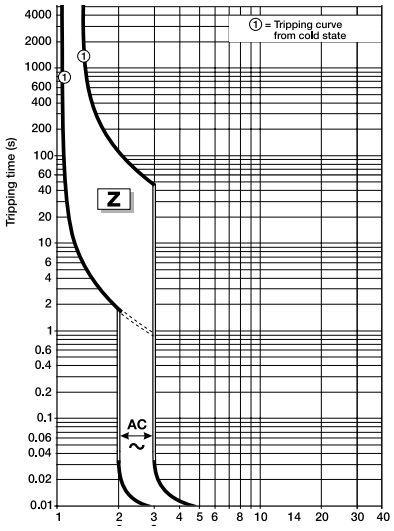
C characteristic



K characteristic



Z characteristic



Miniature Circuit Breaker SU200ML Derating

Deviating ambient temperature

1) Current ratings 0.2, 0.3 and 0.75 A available with K characteristic only

The rated value of the current of a miniature circuit breaker of SU200ML series refers to a reference ambient temperature of 30 °C acc. to IEC/EN 60947-2 and 40 °C acc. to UL/CSA.

The following tables show derating factors for ambient temperature from -40 °C to 70 °C for the characteristics C, K, Z.

IEC derating

Reference temp: 30 °C

IEC/EN 60947-2	ambient temperature (°C)											
I_n(A)	-40	-30	-20	-10	0	10	20	30	40	50	60	70
0.2 [1]	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18	0.17
0.3 [1]	0.39	0.37	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26
0.5	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.5	0.48	0.46	0.45	0.43
0.75 [1]	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65
1	1.29	1.24	1.20	1.16	1.12	1.08	1.04	1	0.96	0.93	0.89	0.86
1.6	2.11	2.02	1.95	1.87	1.80	1.73	1.66	1.6	1.54	1.47	1.42	1.36
2	2.58	2.49	2.40	2.31	2.23	2.15	2.07	2	1.93	1.85	1.79	1.72
3	3.87	3.73	3.60	3.47	3.35	3.23	3.11	3	2.89	2.78	2.68	2.58
4	5.16	4.97	4.80	4.63	4.46	4.30	4.15	4	3.85	3.71	3.57	3.44
5	6.45	6.22	6.00	5.78	5.58	5.38	5.19	5	4.82	4.64	4.47	4.30
6	7.74	7.46	7.20	6.94	6.69	6.45	6.22	6	5.78	5.56	5.36	5.16
8	10.32	9.95	9.59	9.25	8.92	8.60	8.30	8	7.70	7.42	7.14	6.88
10	12.90	12.44	11.99	11.56	11.15	10.75	10.37	10	9.63	9.27	8.93	8.60
13	16.76	16.17	15.59	15.03	14.50	13.98	13.48	13	12.52	12.06	11.61	11.18
15	19.34	18.65	17.99	17.35	16.73	16.13	15.56	15	14.45	13.91	13.40	12.90
16	20.63	19.90	19.19	18.50	17.84	17.21	16.59	16	15.41	14.84	14.29	13.76
20	25.79	24.87	23.98	23.13	22.30	21.51	20.74	20	19.26	18.55	17.86	17.20
25	32.24	31.09	29.98	28.91	27.88	26.88	25.93	25	24.08	23.18	22.33	21.50
30	38.69	37.31	35.98	34.69	33.45	32.26	31.11	30	28.89	27.82	26.79	25.80
32	41.27	39.79	38.37	37.01	35.69	34.41	33.18	32	30.82	29.68	28.58	27.52
35	45.14	43.53	41.97	40.47	39.03	37.64	36.30	35	33.71	32.46	31.26	30.10
40	51.58	49.74	47.97	46.26	44.61	43.01	41.48	40	38.52	37.09	35.72	34.40
50	64.48	62.18	59.96	57.82	55.76	53.77	51.85	50	48.15	46.37	44.65	43.00
60	77.38	74.61	71.95	69.39	66.91	64.52	62.22	60	57.78	55.64	53.58	51.60
63	81.24	78.35	75.55	72.85	70.25	67.75	65.33	63	61	58	56	54

UL derating

Reference temp: 40 °C

UL 489	ambient temperature (°C)											
I_n(A)	-40	-30	-20	-10	0	10	20	30	40	50	60	70
0.2 [1]	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20	0.19	0.19	0.18
0.3 [1]	0.40	0.39	0.37	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27
0.5	0.67	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.5	0.48	0.46	0.45
0.75 [1]	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.72	0.70	0.67
1	1.34	1.29	1.24	1.20	1.16	1.12	1.08	1.04	1	0.96	0.93	0.89
1.6	2.14	2.07	1.99	1.92	1.85	1.78	1.72	1.66	1.6	1.54	1.49	1.43
2	2.67	2.58	2.49	2.40	2.31	2.23	2.15	2.07	2	1.93	1.85	1.79
3	4.01	3.87	3.73	3.60	3.47	3.35	3.23	3.11	3	2.89	2.78	2.68
4	5.35	5.16	4.97	4.80	4.63	4.46	4.30	4.15	4	3.85	3.71	3.57
5	6.69	6.45	6.22	6.00	5.78	5.58	5.38	5.19	5	4.82	4.64	4.47
6	8.02	7.74	7.46	7.20	6.94	6.69	6.45	6.22	6	5.78	5.56	5.36
8	10.70	10.32	9.95	9.59	9.25	8.92	8.60	8.30	8	7.70	7.42	7.14
10	13.37	12.90	12.44	11.99	11.56	11.15	10.75	10.37	10	9.63	9.27	8.93
13	17.38	16.76	16.17	15.59	15.03	14.50	13.98	13.48	13	12.52	12.06	11.61
15	20.06	19.34	18.65	17.99	17.35	16.73	16.13	15.56	15	14.45	13.91	13.40
16	21.40	20.63	19.90	19.19	18.50	17.84	17.21	16.59	16	15.41	14.84	14.29
20	26.75	25.79	24.87	23.98	23.13	22.30	21.51	20.74	20	19.26	18.55	17.86
25	33.43	32.24	31.09	29.98	28.91	27.88	26.88	25.93	25	24.08	23.18	22.33
30	40.12	38.69	37.31	35.98	34.69	33.45	32.26	31.11	30	28.89	27.82	26.79
32	42.79	41.27	39.79	38.37	37.01	35.69	34.41	33.18	32	30.82	29.68	28.58
35	46.81	45.14	43.53	41.97	40.47	39.03	37.64	36.30	35	33.71	32.46	31.26
40	53.49	51.58	49.74	47.97	46.26	44.61	43.01	41.48	40	38.52	37.09	35.72
50	66.87	64.48	62.18	59.96	57.82	55.76	53.77	51.85	50	48.15	46.37	44.65
60	80.24	77.38	74.61	71.95	69.39	66.91	64.52	62.22	60	57.78	55.64	53.58
63	84.25	81.24	78.35	75.55	72.85	70.25	67.75	65.33	63	60.67	58.42	56.26

Miniature Circuit Breaker SU200ML Derating

Influence of adjacent devices, internal resistance and power loss

Influence of adjacent devices

If several miniature circuit breakers are installed directly side by side with high load on all poles, a correction factor has to be applied to the rated current (see table). If distance pieces are used, the factor is not to be considered.

No. of adjacent devices	Factor F
1	1
2, 3	0.9
4, 5	0.8
≥ 6	0.75

Internal resistance and power loss per pole

	C, K characteristics		Z characteristic	
Rated current	Internal resistance per pole	Power loss	Internal resistance per pole	Power loss
I_n [A]	R_i [mOhm]	P_v [W]	R_i [mOhm]	P_v [W]
0.2	42500	1.7	–	–
0.3	18889	1.7	–	–
0.5	5600	1.4	9000	2.3
0.75	2489	1.4	–	–
1	1400	1.4	2200	2.2
1.6	703	1.8	1000	2.6
2	450	1.8	650	2.6
3	178	1.6	250	2.3
4	113	1.8	140	2.2
5	50	1.3	100	2.5
6	56	2.0	70	2.5
8	23	1.5	28	1.8
10	21	2.1	21	2.1
13	14	2.3	17	2.9
15	11	2.4	13	2.9
16	9.8	2.5	10	2.6
20	6.3	2.5	6.5	2.6
25	5.1	3.2	5.1	3.2
30	3.9	3.5	3.9	3.5
32	3.6	3.7	3.6	3.7
35	3.3	4.1	3.3	4.1
40	2.8	4.5	2.8	4.5
50	1.8	4.5	1.8	4.5
60	1.4	4.9	1.4	4.9
63	1.4	5.4	1.4	5.4

Internal resistances are subject to application-specific and environment-specific conditions and are therefore to be considered as typical values.

Miniature Circuit Breaker SU200ML Derating

Current limiting – I_{peak} and I^2t values acc. to UL 489

Characteristic	Nominal current	Voltage	Current	Power Factor	I_{Peak}	I^2t
	[A]	[V]	[A]		[kA]	[kA^2S]
K, C, Z	≤ 40	240	14000	0.25 - 0.3	9.0	80
	> 40	240	14000	0.25 - 0.3	10.0	140
K, C, Z	≤ 40	240	10000	0.45 - 0.5	7.0	60
	> 40	240	10000	0.45 - 0.5	8.0	90
K, C, Z	≤ 40	240	4000	0.45 - 0.5	4.0	25
	> 40	240	4000	0.45 - 0.5	5.0	40

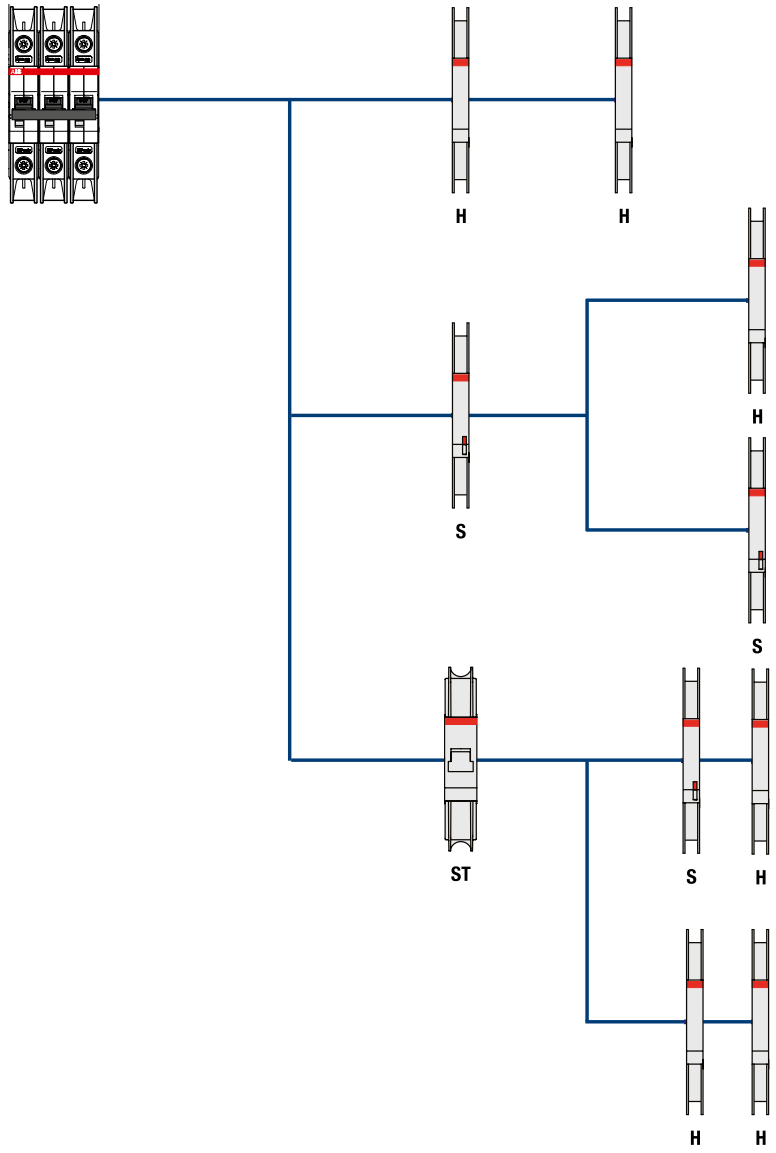
Miniature Circuit Breaker SU200ML

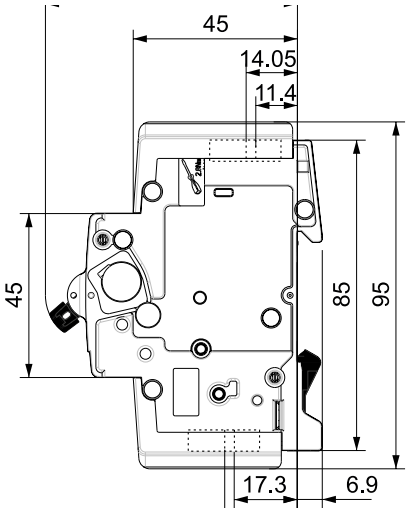
Accessory overview and dimensional drawing

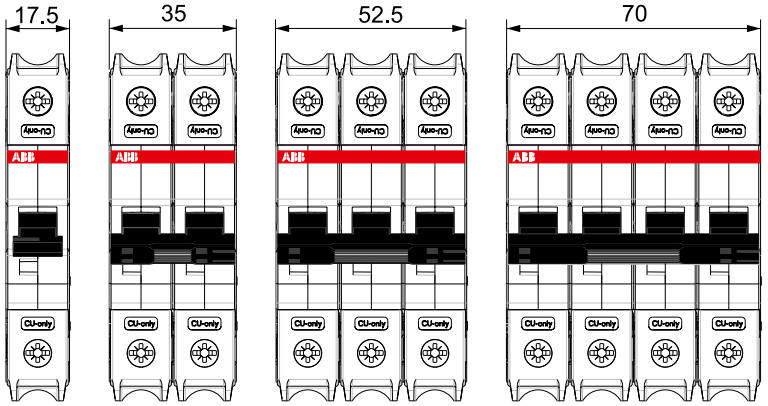
H:
Auxiliary contact
(S2C-H6RU)
(change-over contact)
S/H:
Signal contact
(S2C-S6RU)
ST:
Shunt trip
(S2C-A...U)

The certification of the accessories has been done with one accessory only. The number of electrical operations is limited to 4,000 operations for the maximum combinations and the combinations including shunt trips.

SU200ML







Miniature Circuit Breaker SU200ML

Ordering data characteristic C

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
1	0.5	SU201ML-C0,5	2CDS271339R0984	0.120	10
	1	SU201ML-C1	2CDS271339R0014	0.120	10
	1.6	SU201ML-C1,6	2CDS271339R0974	0.120	10
	2	SU201ML-C2	2CDS271339R0024	0.120	10
	3	SU201ML-C3	2CDS271339R0034	0.120	10
	4	SU201ML-C4	2CDS271339R0044	0.120	10
	5	SU201ML-C5	2CDS271339R0054	0.120	10
	6	SU201ML-C6	2CDS271339R0064	0.120	10
	7	SU201ML-C7	2CDS271339R0074	0.120	10
	8	SU201ML-C8	2CDS271339R0084	0.120	10
	10	SU201ML-C10	2CDS271339R0104	0.120	10
	13	SU201ML-C13	2CDS271339R0134	0.120	10
	15	SU201ML-C15	2CDS271339R0154	0.120	10
	16	SU201ML-C16	2CDS271339R0164	0.120	10
	20	SU201ML-C20	2CDS271339R0204	0.120	10
	25	SU201ML-C25	2CDS271339R0254	0.120	10
	30	SU201ML-C30	2CDS271339R0304	0.120	10
	32	SU201ML-C32	2CDS271339R0324	0.120	10
	35	SU201ML-C35	2CDS271339R0354	0.120	10
	40	SU201ML-C40	2CDS271339R0404	0.120	10
	50	SU201ML-C50	2CDS271339R0504	0.120	10
	60	SU201ML-C60	2CDS271339R0604	0.120	10
	63	SU201ML-C63	2CDS271339R0634	0.120	10
2	0.5	SU202ML-C0,5	2CDS272339R0984	0.240	5
	1	SU202ML-C1	2CDS272339R0014	0.240	5
	1.6	SU202ML-C1,6	2CDS272339R0974	0.240	5
	2	SU202ML-C2	2CDS272339R0024	0.240	5
	3	SU202ML-C3	2CDS272339R0034	0.240	5
	4	SU202ML-C4	2CDS272339R0044	0.240	5
	5	SU202ML-C5	2CDS272339R0054	0.240	5
	6	SU202ML-C6	2CDS272339R0064	0.240	5
	7	SU202ML-C7	2CDS272339R0074	0.240	5
	8	SU202ML-C8	2CDS272339R0084	0.240	5
	10	SU202ML-C10	2CDS272339R0104	0.240	5
	13	SU202ML-C13	2CDS272339R0134	0.240	5
	15	SU202ML-C15	2CDS272339R0154	0.240	5
	16	SU202ML-C16	2CDS272339R0164	0.240	5
	20	SU202ML-C20	2CDS272339R0204	0.240	5
	25	SU202ML-C25	2CDS272339R0254	0.240	5
	30	SU202ML-C30	2CDS272339R0304	0.240	5
	32	SU202ML-C32	2CDS272339R0324	0.240	5
	35	SU202ML-C35	2CDS272339R0354	0.240	5
	40	SU202ML-C40	2CDS272339R0404	0.240	5
	50	SU202ML-C50	2CDS272339R0504	0.240	5
	60	SU202ML-C60	2CDS272339R0604	0.240	5
	63	SU202ML-C63	2CDS272339R0634	0.240	5

Miniature Circuit Breaker SU200ML

Ordering data characteristic C

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
3	0.5	SU203ML-C0,5	2CDS273339R0984	0.360	3
	1	SU203ML-C1	2CDS273339R0014	0.360	3
	1.6	SU203ML-C1,6	2CDS273339R0974	0.360	3
	2	SU203ML-C2	2CDS273339R0024	0.360	3
	3	SU203ML-C3	2CDS273339R0034	0.360	3
	4	SU203ML-C4	2CDS273339R0044	0.360	3
	5	SU203ML-C5	2CDS273339R0054	0.360	3
	6	SU203ML-C6	2CDS273339R0064	0.360	3
	7	SU203ML-C7	2CDS273339R0074	0.360	3
	8	SU203ML-C8	2CDS273339R0084	0.360	3
	10	SU203ML-C10	2CDS273339R0104	0.360	3
	13	SU203ML-C13	2CDS273339R0134	0.360	3
	15	SU203ML-C15	2CDS273339R0154	0.360	3
	16	SU203ML-C16	2CDS273339R0164	0.360	3
	20	SU203ML-C20	2CDS273339R0204	0.360	3
	25	SU203ML-C25	2CDS273339R0254	0.360	3
	30	SU203ML-C30	2CDS273339R0304	0.360	3
	32	SU203ML-C32	2CDS273339R0324	0.360	3
	35	SU203ML-C35	2CDS273339R0354	0.360	3
	40	SU203ML-C40	2CDS273339R0404	0.360	3
	50	SU203ML-C50	2CDS273339R0504	0.360	3
	60	SU203ML-C60	2CDS273339R0604	0.360	3
	63	SU203ML-C63	2CDS273339R0634	0.360	3

4	0.5	SU204ML-C0,5	2CDS274339R0984	0.480	2
	1	SU204ML-C1	2CDS274339R0014	0.480	2
	1.6	SU204ML-C1,6	2CDS274339R0974	0.480	2
	2	SU204ML-C2	2CDS274339R0024	0.480	2
	3	SU204ML-C3	2CDS274339R0034	0.480	2
	4	SU204ML-C4	2CDS274339R0044	0.480	2
	5	SU204ML-C5	2CDS274339R0054	0.480	2
	6	SU204ML-C6	2CDS274339R0064	0.480	2
	7	SU204ML-C7	2CDS274339R0074	0.480	2
	8	SU204ML-C8	2CDS274339R0084	0.480	2
	10	SU204ML-C10	2CDS274339R0104	0.480	2
	13	SU204ML-C13	2CDS274339R0134	0.480	2
	15	SU204ML-C15	2CDS274339R0154	0.480	2
	16	SU204ML-C16	2CDS274339R0164	0.480	2
	20	SU204ML-C20	2CDS274339R0204	0.480	2
	25	SU204ML-C25	2CDS274339R0254	0.480	2
	30	SU204ML-C30	2CDS274339R0304	0.480	2
	32	SU204ML-C32	2CDS274339R0324	0.480	2
	35	SU204ML-C35	2CDS274339R0354	0.480	2
	40	SU204ML-C40	2CDS274339R0404	0.480	2
	50	SU204ML-C50	2CDS274339R0504	0.480	2
	60	SU204ML-C60	2CDS274339R0604	0.480	2
	63	SU204ML-C63	2CDS274339R0634	0.480	2

Miniature Circuit Breaker SU200ML

Ordering data characteristic K

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
1	0.2	SU201ML-K0,2	2CDS271339R0087	0.120	10
	0.3	SU201ML-K0,3	2CDS271339R0117	0.120	10
	0.5	SU201ML-K0,5	2CDS271339R0157	0.120	10
	0.75	SU201ML-K0,75	2CDS271339R0187	0.120	10
	1	SU201ML-K1	2CDS271339R0217	0.120	10
	1.6	SU201ML-K1,6	2CDS271339R0257	0.120	10
	2	SU201ML-K2	2CDS271339R0277	0.120	10
	3	SU201ML-K3	2CDS271339R0317	0.120	10
	4	SU201ML-K4	2CDS271339R0337	0.120	10
	5	SU201ML-K5	2CDS271339R0357	0.120	10
	6	SU201ML-K6	2CDS271339R0377	0.120	10
	7	SU201ML-K7	2CDS271339R0387	0.120	10
	8	SU201ML-K8	2CDS271339R0407	0.120	10
	10	SU201ML-K10	2CDS271339R0427	0.120	10
	13	SU201ML-K13	2CDS271339R0447	0.120	10
	15	SU201ML-K15	2CDS271339R0457	0.120	10
	16	SU201ML-K16	2CDS271339R0467	0.120	10
	20	SU201ML-K20	2CDS271339R0487	0.120	10
	25	SU201ML-K25	2CDS271339R0517	0.120	10
	30	SU201ML-K30	2CDS271339R0527	0.120	10
	32	SU201ML-K32	2CDS271339R0537	0.120	10
	35	SU201ML-K35	2CDS271339R0547	0.120	10
	40	SU201ML-K40	2CDS271339R0557	0.120	10
	50	SU201ML-K50	2CDS271339R0577	0.120	10
	60	SU201ML-K60	2CDS271339R0587	0.120	10
	63	SU201ML-K63	2CDS271339R0607	0.120	10
2	0.2	SU202ML-K0,2	2CDS272339R0087	0.240	5
	0.3	SU202ML-K0,3	2CDS272339R0117	0.240	5
	0.5	SU202ML-K0,5	2CDS272339R0157	0.240	5
	0.75	SU202ML-K0,75	2CDS272339R0187	0.240	5
	1	SU202ML-K1	2CDS272339R0217	0.240	5
	1.6	SU202ML-K1,6	2CDS272339R0257	0.240	5
	2	SU202ML-K2	2CDS272339R0277	0.240	5
	3	SU202ML-K3	2CDS272339R0317	0.240	5
	4	SU202ML-K4	2CDS272339R0337	0.240	5
	5	SU202ML-K5	2CDS272339R0357	0.240	5
	6	SU202ML-K6	2CDS272339R0377	0.240	5
	7	SU202ML-K7	2CDS272339R0387	0.240	5
	8	SU202ML-K8	2CDS272339R0407	0.240	5
	10	SU202ML-K10	2CDS272339R0427	0.240	5
	13	SU202ML-K13	2CDS272339R0447	0.240	5
	15	SU202ML-K15	2CDS272339R0457	0.240	5
	16	SU202ML-K16	2CDS272339R0467	0.240	5
	20	SU202ML-K20	2CDS272339R0487	0.240	5
	25	SU202ML-K25	2CDS272339R0517	0.240	5
	30	SU202ML-K30	2CDS272339R0527	0.240	5
	32	SU202ML-K32	2CDS272339R0537	0.240	5
	35	SU202ML-K35	2CDS272339R0547	0.240	5
	40	SU202ML-K40	2CDS272339R0557	0.240	5
	50	SU202ML-K50	2CDS272339R0577	0.240	5
	60	SU202ML-K60	2CDS272339R0587	0.240	5
	63	SU202ML-K63	2CDS272339R0607	0.240	5

Miniature Circuit Breaker SU200ML

Ordering data characteristic K

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
3	0.2	SU203ML-K0,2	2CDS273339R0087	0.360	3
	0.3	SU203ML-K0,3	2CDS273339R0117	0.360	3
	0.5	SU203ML-K0,5	2CDS273339R0157	0.360	3
	0.75	SU203ML-K0,75	2CDS273339R0187	0.360	3
	1	SU203ML-K1	2CDS273339R0217	0.360	3
	1.6	SU203ML-K1,6	2CDS273339R0257	0.360	3
	2	SU203ML-K2	2CDS273339R0277	0.360	3
	3	SU203ML-K3	2CDS273339R0317	0.360	3
	4	SU203ML-K4	2CDS273339R0337	0.360	3
	5	SU203ML-K5	2CDS273339R0357	0.360	3
	6	SU203ML-K6	2CDS273339R0377	0.360	3
	7	SU203ML-K7	2CDS273339R0387	0.360	3
	8	SU203ML-K8	2CDS273339R0407	0.360	3
	10	SU203ML-K10	2CDS273339R0427	0.360	3
	13	SU203ML-K13	2CDS273339R0447	0.360	3
	15	SU203ML-K15	2CDS273339R0457	0.360	3
	16	SU203ML-K16	2CDS273339R0467	0.360	3
	20	SU203ML-K20	2CDS273339R0487	0.360	3
	25	SU203ML-K25	2CDS273339R0517	0.360	3
	30	SU203ML-K30	2CDS273339R0527	0.360	3
	32	SU203ML-K32	2CDS273339R0537	0.360	3
	35	SU203ML-K35	2CDS273339R0547	0.360	3
	40	SU203ML-K40	2CDS273339R0557	0.360	3
	50	SU203ML-K50	2CDS273339R0577	0.360	3
	60	SU203ML-K60	2CDS273339R0587	0.360	3
	63	SU203ML-K63	2CDS273339R0607	0.360	3
4	0.2	SU204ML-K0,2	2CDS274339R0087	0.480	2
	0.3	SU204ML-K0,3	2CDS274339R0117	0.480	2
	0.5	SU204ML-K0,5	2CDS274339R0157	0.480	2
	0.75	SU204ML-K0,75	2CDS274339R0187	0.480	2
	1	SU204ML-K1	2CDS274339R0217	0.480	2
	1.6	SU204ML-K1,6	2CDS274339R0257	0.480	2
	2	SU204ML-K2	2CDS274339R0277	0.480	2
	3	SU204ML-K3	2CDS274339R0317	0.480	2
	4	SU204ML-K4	2CDS274339R0337	0.480	2
	5	SU204ML-K5	2CDS274339R0357	0.480	2
	6	SU204ML-K6	2CDS274339R0377	0.480	2
	7	SU204ML-K7	2CDS274339R0387	0.480	2
	8	SU204ML-K8	2CDS274339R0407	0.480	2
	10	SU204ML-K10	2CDS274339R0427	0.480	2
	13	SU204ML-K13	2CDS274339R0447	0.480	2
	15	SU204ML-K15	2CDS274339R0457	0.480	2
	16	SU204ML-K16	2CDS274339R0467	0.480	2
	20	SU204ML-K20	2CDS274339R0487	0.480	2
	25	SU204ML-K25	2CDS274339R0517	0.480	2
	30	SU204ML-K30	2CDS274339R0527	0.480	2
	32	SU204ML-K32	2CDS274339R0537	0.480	2
	35	SU204ML-K35	2CDS274339R0547	0.480	2
	40	SU204ML-K40	2CDS274339R0557	0.480	2
	50	SU204ML-K50	2CDS274339R0577	0.480	2
	60	SU204ML-K60	2CDS274339R0587	0.480	2
	63	SU204ML-K63	2CDS274339R0607	0.480	2

Miniature Circuit Breaker SU200ML

Ordering data characteristic Z

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
1	0,5	SU201ML-Z0,5	2CDS271339R0158	0.120	10
	1	SU201ML-Z1	2CDS271339R0218	0.120	10
	1.6	SU201ML-Z1,6	2CDS271339R0258	0.120	10
	2	SU201ML-Z2	2CDS271339R0278	0.120	10
	3	SU201ML-Z3	2CDS271339R0318	0.120	10
	4	SU201ML-Z4	2CDS271339R0338	0.120	10
	5	SU201ML-Z5	2CDS271339R0358	0.120	10
	6	SU201ML-Z6	2CDS271339R0378	0.120	10
	7	SU201ML-Z7	2CDS271339R0388	0.120	10
	8	SU201ML-Z8	2CDS271339R0408	0.120	10
	10	SU201ML-Z10	2CDS271339R0428	0.120	10
	13	SU201ML-Z13	2CDS271339R0448	0.120	10
	15	SU201ML-Z15	2CDS271339R0458	0.120	10
	16	SU201ML-Z16	2CDS271339R0468	0.120	10
	20	SU201ML-Z20	2CDS271339R0488	0.120	10
	25	SU201ML-Z25	2CDS271339R0518	0.120	10
	30	SU201ML-Z30	2CDS271339R0528	0.120	10
	32	SU201ML-Z32	2CDS271339R0538	0.120	10
	35	SU201ML-Z35	2CDS271339R0548	0.120	10
	40	SU201ML-Z40	2CDS271339R0558	0.120	10
	50	SU201ML-Z50	2CDS271339R0578	0.120	10
	60	SU201ML-Z60	2CDS271339R0588	0.120	10
	63	SU201ML-Z63	2CDS271339R0608	0.120	10
2	0.5	SU202ML-Z0,5	2CDS272339R0158	0.240	5
	1	SU202ML-Z1	2CDS272339R0218	0.240	5
	1.6	SU202ML-Z1,6	2CDS272339R0258	0.240	5
	2	SU202ML-Z2	2CDS272339R0278	0.240	5
	3	SU202ML-Z3	2CDS272339R0318	0.240	5
	4	SU202ML-Z4	2CDS272339R0338	0.240	5
	5	SU202ML-Z5	2CDS272339R0358	0.240	5
	6	SU202ML-Z6	2CDS272339R0378	0.240	5
	7	SU202ML-Z7	2CDS272339R0388	0.240	5
	8	SU202ML-Z8	2CDS272339R0408	0.240	5
	10	SU202ML-Z10	2CDS272339R0428	0.240	5
	13	SU202ML-Z13	2CDS272339R0448	0.240	5
	15	SU202ML-Z15	2CDS272339R0458	0.240	5
	16	SU202ML-Z16	2CDS272339R0468	0.240	5
	20	SU202ML-Z20	2CDS272339R0488	0.240	5
	25	SU202ML-Z25	2CDS272339R0518	0.240	5
	30	SU202ML-Z30	2CDS272339R0528	0.240	5
	32	SU202ML-Z32	2CDS272339R0538	0.240	5
	35	SU202ML-Z35	2CDS272339R0548	0.240	5
	40	SU202ML-Z40	2CDS272339R0558	0.240	5
	50	SU202ML-Z50	2CDS272339R0578	0.240	5
	60	SU202ML-Z60	2CDS272339R0588	0.240	5
	63	SU202ML-Z63	2CDS272339R0608	0.240	5

Miniature Circuit Breaker SU200ML

Ordering data characteristic Z

Number of poles	Rated current I_n [A]	Type code	Order code	Weight per PCE [kg]	Packing unit [PCE]
3	0.5	SU203ML-Z0,5	2CDS273339R0158	0.360	3
	1	SU203ML-Z1	2CDS273339R0218	0.360	3
	1.0	SU203ML-Z1,6	2CDS273339R0258	0.360	3
	2	SU203ML-Z2	2CDS273339R0278	0.360	3
	3	SU203ML-Z3	2CDS273339R0318	0.360	3
	4	SU203ML-Z4	2CDS273339R0338	0.360	3
	5	SU203ML-Z5	2CDS273339R0358	0.360	3
	6	SU203ML-Z6	2CDS273339R0378	0.360	3
	7	SU203ML-Z7	2CDS273339R0388	0.360	3
	8	SU203ML-Z8	2CDS273339R0408	0.360	3
	10	SU203ML-Z10	2CDS273339R0428	0.360	3
	13	SU203ML-Z13	2CDS273339R0448	0.360	3
	15	SU203ML-Z15	2CDS273339R0458	0.360	3
	16	SU203ML-Z16	2CDS273339R0468	0.360	3
	20	SU203ML-Z20	2CDS273339R0488	0.360	3
	25	SU203ML-Z25	2CDS273339R0518	0.360	3
	30	SU203ML-Z30	2CDS273339R0528	0.360	3
	32	SU203ML-Z32	2CDS273339R0538	0.360	3
	35	SU203ML-Z35	2CDS273339R0548	0.360	3
	40	SU203ML-Z40	2CDS273339R0558	0.360	3
	50	SU203ML-Z50	2CDS273339R0578	0.360	3
	60	SU203ML-Z60	2CDS273339R0588	0.360	3
	63	SU203ML-Z63	2CDS273339R0608	0.360	3
4	0.5	SU204ML-Z0,5	2CDS274339R0158	0.480	2
	1	SU204ML-Z1	2CDS274339R0218	0.480	2
	1.6	SU204ML-Z1,6	2CDS274339R0258	0.480	2
	2	SU204ML-Z2	2CDS274339R0278	0.480	2
	3	SU204ML-Z3	2CDS274339R0318	0.480	2
	4	SU204ML-Z4	2CDS274339R0338	0.480	2
	5	SU204ML-Z5	2CDS274339R0358	0.480	2
	6	SU204ML-Z6	2CDS274339R0378	0.480	2
	7	SU204ML-Z7	2CDS274339R0388	0.480	2
	8	SU204ML-Z8	2CDS274339R0408	0.480	2
	10	SU204ML-Z10	2CDS274339R0428	0.480	2
	13	SU204ML-Z13	2CDS274339R0448	0.480	2
	15	SU204ML-Z15	2CDS274339R0458	0.480	2
	16	SU204ML-Z16	2CDS274339R0468	0.480	2
	20	SU204ML-Z20	2CDS274339R0488	0.480	2
	25	SU204ML-Z25	2CDS274339R0518	0.480	2
	30	SU204ML-Z30	2CDS274339R0528	0.480	2
	32	SU204ML-Z32	2CDS274339R0538	0.480	2
	35	SU204ML-Z35	2CDS274339R0548	0.480	2
	40	SU204ML-Z40	2CDS274339R0558	0.480	2
	50	SU204ML-Z50	2CDS274339R0578	0.480	2
	60	SU204ML-Z60	2CDS274339R0588	0.480	2
	63	SU204ML-Z63	2CDS274339R0608	0.480	2

ABB Inc.
305 Gregson Drive,
Cary, NC 27511
United States

electrification.us.abb.com

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