

Technical specifications

SU200M, SU200MR, and S200UDC—UL 489, CSA 22.2 No. 5

Technical specifications

	SU200M	SU200MR	S200UDC
Specifications	UL 489, C 22.2 No. 5, IEC 60947-2	UL 489, C 22.2 No. 5, IEC 60947-2	UL 489, VDE 0660
UL file number	E 212323, UL current limiting	E 212323, UL current limiting	E212323
Number of poles	1, 2, 3, 4	1, 2, 3, 4	1, 2
Trip curves	C, K, Z	K	Z, K
Rated current	Up to 63 A	Up to 63 A	Up to 63 A
Rated voltage	277/Y480 VAC up to 40 A (Z and C trip curves) 277/Y480 VAC up to 35 A (K trip curve) 240 VAC up to 63 A (all trip curves) 48/96 VDC up to 63 A (1/2-pole, all trip curves)	277/Y480 VAC (up to 35 A) 240 VAC up to 63 A	60/125 VDC (1/2-pole)
Short circuit interrupt rating	10 kA	10 kA	14 kA
Calibration temperature	40 °C	40 °C	25 °C
Mounting position	Any	Any	Any
Protection degree	IP 20	IP 20	IP 20 with accessory
Mounting	35 mm DIN rail	35 mm DIN rail	35 mm DIN rail
Terminal screw tightening torque	25 in. lbs (2.8 Nm)	25 in. lbs (2.8 Nm)	25 in. lbs (2.8 Nm)
Cable size	AWG 4-16	AWG 4-16	AWG 4-16
Ambient temperature	-25 °C...+55 °C/-13 °F...+131 °F	-25 °C...+55 °C/-13 °F...+131 °F	-25 °C...+55 °C/-13 °F...+131 °F
Shock resistance (IEC60068-2-27)	25 g - 2 shocks - 13 ms	25 g - 2 shocks - 13 ms	25 g - 2 shocks - 13 ms
Service life, mechanical	20,000 operations	20,000 operations	20,000 operations

Auxiliary contact S2C-H6RU and S2C-S6RU

Rated current	10
Rated voltage AC/DC	24
Contact	1 pole double throw
Connection capacity mm²	18-14 AWG (0.75...2.5 mm ²)
Tightening torque	11 in. lbs (1.2 Nm)
Shock resistance acc. to DIN IEC 68-2-6	5 g, 20 frequency cycles 5...150...5 Hz at 24 VAC/DC, 5 mA auto-reclosing < 10 ms
Mechanical service life	10,000 operations

Shunt trip

			S2C-A1U	S2C-A2U
Rated voltage	AC	V	12...60	110...415
	DC	V	12...60	110...250
Maximum release duration		ms	<10	<10
Minimum release voltage	AC	V	7	55
	DC	V	10	80
Consumption on release	AC	VA	40...200	55...210
	DC	VA	40...200	55...110
Coil resistance		Ω	3.7	225
Terminals		AWG/mm ²	18...6/0.75-16	18...6/0.75-16
Tightening torque		in. lbs./Nm	18/2	18/2

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Internal resistance and power loss per pole

Internal resistance per pole in $m\Omega$, power loss per pole in W.

SU200M

Rated current I_n A	C, K characteristics		Z characteristics	
	Internal resistance per pole R_i m Ω	Power loss P W	Internal resistance per pole R_i m Ω	Power loss P 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.

SU200MR

Rated current A	Internal resistance per pole ¹⁾ m Ω	Power loss per pole ¹⁾ W
0.2	25300	1.01
0.3	13700	1.23
0.5	4740	1.19
0.75	2067	1.16
1	1270	1.27
1.5	610	1.56
2	442	1.77
3	140	1.26
4	109	1.75
5	50	1.26
6	54	1.94
8	22	1.41
10	18.2	1.82
13	14.8	2.50
15	8.1	1.83
16	11.1	2.83
20	8.5	3.40
25	5.5	3.43
30	3.8	3.39
32	4.6	4.70
35	3.9	4.76
40	2.8	4.40
50	1.7	4.25
60	1.7	6.18
63	1.9	7.56

¹⁾Internal resistances and power loss are subject to application-specific and environment-specific conditions and are therefore to be considered as typical values.

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Temperature derating SU200M and SU200MR

Standard	Rated current I_n A	Maximum operating current at ambient temperature T											
		- 40 °C	- 30 °C	- 20 °C	- 10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
UL 489	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	1.74	1.68	1.62	1.56	1.50	1.45	1.40	1.35	1.3	1.25	1.21	1.16
	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	

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

Technical specifications

Busbars PS...BP-C/CR and accessories

Electrical data		Busbars PS...BP-CR
Standards		UL508 EN 60947-1 / IEC 60947-1:2004
Rated voltage U_n	V	600 V AC/DC
Rated frequency	Hz	50 Hz (IEC) / 60 Hz (UL)
Rated impuls withstand voltage U_{imp}	kV	≥ 10 kV
Rated current / phase		
End fed ¹⁾	A	100 A
Center fed ¹⁾	A	200 A
Short circuit current rating	kA	10 kA 3 cycles @ 600 V / 140 kA Fuse Class J 200 A
Mechanical data		
Housing		grey, RAL 7035
Resistance to climatic conditions		acc. to DIN EN 60068
Isolation coordination		
Overvoltage category		III
Pollution degree		2
Installation		
Cross section	mm ²	25 mm ²
Mounting position		Optional
Supply		Via cable with ring lug (PS...BP-CR); direct or via feeder terminal (PS...BP-C)
Accessories		
Shock protection caps		BSK BP-CR (for PS...BP-CR), BSK BP-C (for PS...BP-C)
Endcaps		PS-END 3 BP-C
Approvals		
		CE, RoHS
		UL 508: cULus Listed

¹⁾ Independently from the current rating of the feeder terminal or busbar, the current-carrying capacity/current rating of the MCB terminal must not be exceeded.

Installation/assembly

Warning: When busbars are shortened, they must be deburred and cleaned of debris. Touch-safe only when used with the required end caps.

Dimensional drawing

