

Molded Case Circuit Breakers

Breaking capacities

■ IEC60947-2, EN60947-2, JIS C8201-2-1 / IEC and CE marking conformed

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)[Icu/Ics]								IEC60947-2	JIS C8201-2-1 DC
						AC 230V	380V	400V	415V	440V	500V	600V	250V		
S	30	SA32C□-CE	2	3, 5, 10, 15, 20, 30	690	5/3	2.5/2	2.5/2	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2	
	30	SA33C□-CE	3	3, 5, 10, 15, 20, 30	690	5/3	2.5/2	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2		
	50	SA52C□-CE	2	5, 10, 15, 20, 30, 40, 50	690	10/5	7.5/4	7.5/4	7.5/4	7.5/4	5/3	—	5/3		
	50	SA53C□-CE	3	5, 10, 15, 20, 30, 40, 50	690	10/5	7.5/4	7.5/4	7.5/4	7.5/4	5/3	—	5/3		
	50	SA52RC□-CE	2	10, 15, 20, 30, 40, 50	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
	50	SA53RC□-CE	3	10, 15, 20, 30, 40, 50	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
	60	SA62C□-CE	2	60	690	10/5	7.5/4	7.5/4	7.5/4	7.5/4	5/3	—	5/3		
	60	SA63C□-CE	3	60	690	10/5	7.5/4	7.5/4	7.5/4	7.5/4	5/3	—	5/3		
	60	SA62RC□-CE	2	60	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
	60	SA63RC□-CE	3	60	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
	100	SA102C□-CE	2	15, 20, 30, 40, 50, 60, 75, 100	690	50/25	30/8	30/8	30/8	25/7	15/4	—	15/8		
	100	SA103C□-CE	3	15, 20, 30, 40, 50, 60, 75, 100	690	50/25	30/8	30/8	30/8	25/7	15/4	—	15/8		
	100	SA102RC□-CE	2	15, 20, 30, 40, 50, 60, 75, 100	690	100/50	50/13	50/13	50/13	50/13	30/8	—	40/20		
	100	SA103RC□-CE	3	15, 20, 30, 40, 50, 60, 75, 100	690	100/50	50/13	50/13	50/13	50/13	30/8	—	40/20		
	225	SA202C□-CE	2	125, 150, 175, 200, 225	690	50/25	30/8	30/8	30/8	25/7	15/4	—	15/8		
	225	SA203C□-CE	3	125, 150, 175, 200, 225	690	50/25	30/8	30/8	30/8	25/7	15/4	—	15/8		
	225	SA202RC□-CE	2	125, 150, 175, 200, 225	690	100/50	50/13	50/13	50/13	50/13	30/8	—	40/20		
	225	SA203RC□-CE	3	125, 150, 175, 200, 225	690	100/50	50/13	50/13	50/13	50/13	30/8	—	40/20		
	400	SA402C□-CE	2	250, 300, 350, 400	690	50/25	35/18	35/18	35/18	35/18	22/11	—	20/10		
	400	SA403C□-CE	3	250, 300, 350, 400	690	50/25	35/18	35/18	35/18	35/18	22/11	—	20/10		
	400	SA402RC□-CE	2	250, 300, 350, 400	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20		
	400	SA403RC□-CE	3	250, 300, 350, 400	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20		
	600	SA603RC□-CE	3	500, 600	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20		
	800	SA803RC□-CE	3	700, 800	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20		
	E	30	EA32AC□-CE	2	3, 5, 10, 15, 20, 30	500	2.5/2	1.5/1	1.5/1	1.5/1	1.5/1	—	—	—	
		30	EA33AC□-CE	3	3, 5, 10, 15, 20, 30	500	2.5/2	1.5/1	1.5/1	1.5/1	1.5/1	—	—	—	
		50	EA52AC□-CE	2	5, 10, 15, 20, 30, 40, 50	500	2.5/2	1.5/1	1.5/1	1.5/1	1.5/1	—	—	—	
		50	EA53AC□-CE	3	5, 10, 15, 20, 30, 40, 50	500	2.5/2	1.5/1	1.5/1	1.5/1	1.5/1	—	—	—	
50		EA52C□-CE	2	5, 10, 15, 20, 30, 40, 50	690	5/3	2.5/2	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2		
50		EA53C□-CE	3	5, 10, 15, 20, 30, 40, 50	690	5/3	2.5/2	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2		
60		EA62C□-CE	2	60	690	5/3	5/3	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2		
60		EA63C□-CE	3	60	690	5/3	5/3	2.5/2	2.5/2	2.5/2	1.5/1	—	2.5/2		
100		EA103AC□-CE	3	60, 75, 100	400	5/3	1.5/1	1.5/1	—	—	—	—	—		
100		EA102C□-CE	2	50, 60, 75, 100	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
100		EA103C□-CE	3	50, 60, 75, 100	690	25/13	10/5	10/5	10/5	10/5	7.5/4	—	5/3		
225		EA202C□-CE	2	125, 150, 175, 200, 225	690	35/18	18/5	18/5	18/5	15/4	10/3	—	10/5		
225		EA203C□-CE	3	125, 150, 175, 200, 225	690	35/18	18/5	18/5	18/5	15/4	10/3	—	10/5		
400		EA402C□-CE	2	250, 300, 350, 400	690	35/18	25/13	25/13	25/13	25/13	18/9	—	20/10		
400		EA403C□-CE	3	250, 300, 350, 400	690	35/18	25/13	25/13	25/13	25/13	18/9	—	20/10		
600		EA603C□-CE	3	500, 600	690	50/25	35/18	35/18	35/18	35/18	22/11	—	20/10		
800		EA803C□-CE	3	700, 800	690	50/25	35/18	35/18	35/18	35/18	22/11	—	20/10		

Note: For details of breaking capacity, see page 06/10 "Quick reference guide".

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)[Icu/Ics]								IEC60947-2	JIS C8201-2-1 DC
						AC 230V	380V	400V	415V	440V	500V	600V	250V		
S	1000	SA1003E	3	500-600-700-800-900-1000	690	100/75	65/49	65/49	65/49	65/49	45/34	25/19	—		
		SA1004E	4	500-600-700-800-900-1000	690	100/75	65/49	65/49	65/49	65/49	45/34	25/19	—		
	1200	SA1203E	3	600-700-800-1000-1200	690	100/75	65/49	65/49	65/49	65/49	45/34	25/19	—		
		SA1204E	4	600-700-800-1000-1200	690	100/75	65/49	65/49	65/49	65/49	45/34	25/19	—		
	1600	SA1603E	3	800-900-1000-1200-1400-1600	690	125/94	85/64	85/64	85/64	85/64	65/49	45/34	—		
		SA1604E	4	800-900-1000-1200-1400-1600	690	125/94	85/64	85/64	85/64	85/64	65/49	45/34	—		

Molded Case Circuit Breakers

Breaking capacities

■ JIS C8201-2-1

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)[Icu]							
						AC 230V	380V	400V	415V	440V	500V	600V	DC 250V
L	50	LA53B	3	5, 10	660	100	50	50	50	50	42	–	–
H	100	H103R	3	40, 50, 60, 75, 100	660	125	100	85	85	85	42	–	40
	225	H203R	3	125, 150, 175, 200, 225	660	125	100	85	85	85	42	–	40
	400	H403R	3	250, 300, 350, 400	690	125	125	125	125	125	85	–	40
	600	H603R	3	500, 600	690	125	125	125	125	125	85	–	40
	800	H803R	3	700, 800	690	125	125	125	125	125	85	–	40

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)							
						AC 230V	380V	400V	415V	440V	500V	600V	DC 250V
S	50	SA54B	4	5, 10, 15, 20, 30, 40, 50	660	10	7.5	7.5	7.5	7.5	5	–	–
	100	SA104R	4	15, 20, 30, 40, 50, 60, 75, 100	660	85	50	45	45	35	35	–	–
	225	SA204R	4	125, 150, 175, 200, 225	660	85	50	50	50	35	35	–	–
	400	SA404HA	4	250, 300, 350, 400	660	85	45	45	45	35	35	–	–
	600	SA604H	4	500, 600	660	85	45	45	45	35	35	–	–
	800	SA804H	4	700, 800	660	85	45	45	45	35	35	–	–
E	100	EA104B	4	50, 60, 75, 100	660	25	15	15	10	10	7.5	–	–
F	50	F51B	1	15, 20, 30, 40, 50	300	2.5	–	–	3	–	–	–	–
	50	F52B	2	15, 20, 30, 40, 50	300	5	–	–	3	–	–	–	–
	50	F53B	3	15, 20, 30, 40, 50	300	5	–	–	–	–	–	–	–
	100	F102B	2	60, 75, 100	300	5.5	–	–	–	–	–	–	–
	100	F103B	3	60, 75, 100	300	5.5	–	–	–	–	–	–	–

Molded Case Circuit Breakers

Breaking capacities

■ IEC 60947-2

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)[Icu/lcs]				IEC60947-2				JIS C8201-2-1 DC	
						AC 230V	380V	400V	415V	440V	500V	600V	250V		
H	50	H52BA	2	15, 20, 30, 40, 50	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
		H53BA	3	15, 20, 30, 40, 50	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
	100	H102BA	2	15, 20, 30, 40, 50, 60, 75, 100	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
		H103BA	3	15, 20, 30, 40, 50, 60, 75, 100	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
	225	H202BA	2	125, 150, 175, 200, 225	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
		H203BA	3	125, 150, 175, 200, 225	690	125/32	65/17	65/17	65/17	65/17	65/17	35/9	25/7	40/10	
	400	H402B	2	250, 300, 350, 400	690	125/63	65/33	65/33	65/33	65/33	65/33	42/21	35/18	40/20	
		H403B	3	250, 300, 350, 400	690	125/63	65/33	65/33	65/33	65/33	65/33	42/21	35/18	40/20	
	600	H603B	3	500, 600	690	125/63	65/33	65/33	65/33	65/33	65/33	42/21	35/18	40/20	
	800	H803B	3	700, 800	690	125/63	65/33	65/33	65/33	65/33	65/33	42/21	35/18	40/20	

■ UL489 Listed

Series	Breaker ampere frame	Basic type	Pole	Rated current (A)	Insulation voltage Ui (V)	Breaking capacity (kA)[Icu/lcs]				IEC60947-2				JIS C8201-2-1 DC		UL489 (cUL) Rated voltage (V) Breaking capacity (kA)		
						AC 230V	380V	400V	415V	440V	500V	600V	250V	240	480Y/277	480		
S	50	SA52RCUL	2	3, 5, 10, 15, 20, 30, 40, 50	690	25/13	10/5	10/5	10/5	10/5	7.5/4	5/3	-	240	14	-	-	
		SA53RCUL	3	3, 5, 10, 15, 20, 30, 40, 50	690	25/13	10/5	10/5	10/5	10/5	7.5/4	5/3	-	240	14	-	-	
	100	SA102CUL	2	15, 20, 30, 40, 50, 60, 70, 75, 80, 90, 100	690	50/25	30/8	30/8	30/8	25/7	15/4	-	15/8	240	35	-	-	
		SA103CUL	3	15, 20, 30, 40, 50, 60, 70, 75, 80, 90, 100	690	50/25	30/8	30/8	30/8	25/7	15/4	-	15/8	240	35	-	-	
	100	SA102RCUL	2	15, 20, 30, 40, 50, 60, 70, 75, 80, 90, 100	690	100/50	50/13	50/13	50/13	50/13	30/8	-	40/20	480Y/277	85	25	-	
		SA103RCUL	3	15, 20, 30, 40, 50, 60, 70, 75, 80, 90, 100	690	100/50	50/13	50/13	50/13	50/13	30/8	-	40/20	480Y/277	85	25	-	
	225	SA202CUL	2	125, 150, 175, 200, 225	690	50/25	30/8	30/8	30/8	25/7	15/4	-	15/8	240	35	-	-	
		SA203CUL	3	125, 150, 175, 200, 225	690	50/25	30/8	30/8	30/8	25/7	15/4	-	15/8	240	35	-	-	
	225	SA202RCUL	2	125, 150, 175, 200, 225	690	100/50	50/13	50/13	50/13	50/13	30/8	-	40/20	480Y/277	85	25	-	
		SA203RCUL	3	125, 150, 175, 200, 225	690	100/50	50/13	50/13	50/13	50/13	30/8	-	40/20	480Y/277	85	25	-	
	400	SA402CUL	2	250, 300, 350, 400	690	50/25	35/18	35/18	35/18	35/18	22/11	-	20/10	480	42	25	25	
		SA403CUL	3	250, 300, 350, 400	690	50/25	35/18	35/18	35/18	35/18	22/11	-	20/10	480	42	25	25	
		SA402RCUL	2	250, 300, 350, 400	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20	480	85	50	50	
		SA403RCUL	3	250, 300, 350, 400	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20	480	85	50	50	
	600	SA603RCUL	3	500, 600	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20	480	85	50	50	
		SA803RCUL	3	700, 800	690	85/43	50/25	50/25	50/25	50/25	35/18	30/15	40/20	480	85	50	50	
	E	100	EA102CUL	2	60, 70, 75, 80, 90, 100	690	25/13	10/5	10/5	10/5	10/5	7.5/4	5/3	-	240	14	-	-
			EA103CUL	3	60, 70, 75, 80, 90, 100	690	25/13	10/5	10/5	10/5	10/5	7.5/4	5/3	-	240	14	-	-