

SIEMENS



SENTRON

3VA Molded Case Circuit Breakers

Back-up protection

Edition

10/2017

[siemens.com/3VA](https://www.siemens.com/3VA)

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Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017					Upstream molded case circuit breaker 3VA1																										
					Line protection																										
					Trip unit		TM210 / TM220 / TM240																								
							100 A												160 A												250 A
					Size		16 (B) / 25 (N) / 36 (S)												25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)
I _{cu} [kA]		16 (B) / 25 (N) / 36 (S)												25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)					
Characteristic	I _{cn} [kA]	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250					
				16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250					
Downstream miniature circuit breaker 5SY6 (without 5SY60)	B	6	30	2	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	40	35	35	35					
				4	30	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	35	35	35					
				6	30	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	40	35	35	35				
			15	10	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	25	25	25	25	25				
				13		25	25	25	25	25	25	25	25		60	60	60	40	40	40	40	40	25	25	25	25	25				
				16			25	25	25	25	25	25	25			60	60	40	40	40	40	40	25	25	25	25	25				
		10	20				25	25	25	25	25	25				60	40	40	40	40	40	25	25	25	25	25					
			25					25	25	25	25	25					40	40	40	40	40	25	25	25	25	25					
			32						25	25	25	25						40	40	40	40	25	25	25	25	25					
			40							20	20	20							25	25	25	25	25	25	25	25					
			50								15	15								25	25	25	25	25	20	20					
			63									15										20	20	20	20	20					
Downstream miniature circuit breaker 5SY4	B	10	35	2	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
				4	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65					
				6	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
			20	10	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				13		30	30	30	30	30	30	30	30		65	65	65	65	65	65	65	65	65	65	65	65	65				
				16			30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65				
		15	20				30	30	30	30	30	30				65	65	65	65	65	65	65	65	65	65	65					
			25					30	30	30	30	30					65	65	65	65	65	65	65	65	65	65					
			32						30	30	30	30						65	65	65	65	65	65	65	65	65					
			40							30	30	30							65	65	65	65	65	65	65	65					
			50								30	30	30							45	45	45	45	45	35	35	35				
			63									25	25								45	45	45	45	30	30	30				
Downstream miniature circuit breaker 5SY7	B	15	40	6	Back-up protection not required												70	70	70	70	70	70	70	70	70	70	70	70	70		
				10	35	35	35	35	35	35	35	35	35	70	70	70	70	70	70	70	70	70	70	70	70	70	70				
				13		35	35	35	35	35	35	35	35		70	70	70	70	70	70	70	70	70	70	70	70	70				
			25	16			35	35	35	35	35	35	35			70	70	70	70	70	70	70	70	70	70	70	70				
				20				35	35	35	35	35	35				70	70	70	70	70	70	70	70	55	55	55				
				25					35	35	35	35	35					70	70	70	70	70	70	70	55	55	55				
		20	32						35	35	35	35						70	70	70	70	70	70	55	55	25					
			40							35	35	35								50	50	50	50	40	40	40					
			50								30	30	30								50	50	50	35	35	35					
			63									30										35	35	35	35	35	35				
Downstream miniature circuit breaker 5SY6 (without 5SY60)	C	6	30	0.3	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45					
				0.5	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				1	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				1.6	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				2	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				3	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
		15		4	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				5	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				6	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45				
				8	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	30	30	30	30	30				
				10	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	30	30	30	30	30				
				13		25	25	25	25	25	25	25	25		60	60	60	40	40	40	40	40	30	30	30	30	30				
		10	15			25	25	25	25	25	25	25			60	60	40	40	40	40	40	30	30	30	30	30					
			16				25	25	25	25	25	25				60	40	40	40	40	40	30	30	30	30	30					
			20					25	25	25	25	25					60	40	40	40	40	30	30	30	30	30					
			25						25	25	25	25						40	40	40	40	30	30	30	30	30					
			30							25	25	25							40	40	40	30	30	30	30	30					
			32								25	25								40	40	30	30	30	30	30					
		40	40								20	20	20								25	25	25	25	25	25	25				
			50									15	15									25	25	25	25	20	20				
			63										15										20	20	20	20					

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017					Upstream molded case circuit breaker 3VA1																													
					Line protection																													
					Trip unit					TM210 / TM220 / TM240																								
										100 A										160 A														250 A
																				16 (B) / 25 (N) / 36 (S)										25 (N) / 36 (S) / 55 (M) / 70 (H)				
Characteristic	I _{cn} [kA]	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250								
Downstream miniature circuit breaker 5SY4	C	10	35	0,3	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65							
				0,5	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
				1	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				1,6	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				2	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				2,5	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				3	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				3,5	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				4	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				5	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				6	35	35	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
			20	8	30	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				10	30	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
				13		30	30	30	30	30	30	30	30	30	30	30		65	65	65	65	65	65	65	65	65	65	65	65	65				
				15			30	30	30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65				
				16				30	30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65				
				20					30	30	30	30	30	30	30	30				65	65	65	65	65	65	65	65	65	65	65				
				25						30	30	30	30	30	30	30					65	65	65	65	65	65	65	65	65					
				30							30	30	30	30	30	30						65	65	65	65	65	65	65	65	65				
				32								30	30	30	30	30							65	65	65	65	65	65	65	65				
			15	35										30	30	30								45	45	45	45	45	45	45				
				40											30	30									45	45	45	45	45	45				
				45												30	30									45	45	45	45	45				
				50														25	25								45	45	45	45				
				60																25	25							30	30	30				
				63																		25	25						30	30	30			
																													30	30	30			
Downstream miniature circuit breaker 5SY7	C	15	50	0,3													70	70	70	70	70	70	70	70	70	70	70	70	70	70				
				0,5													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				1													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				1,6													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				2	Back-up protection not required												70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				3													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				4													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				6													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
			30	8	35	35	35	35	35	35	35	35	35	35	35	35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				10	35	35	35	35	35	35	35	35	35	35	35	35	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				13		35	35	35	35	35	35	35	35	35	35	35		70	70	70	70	70	70	70	70	70	70	70	70	70				
				16			35	35	35	35	35	35	35	35	35	35			70	70	70	70	70	70	70	70	70	70	70	70				
				20				35	35	35	35	35	35	35	35	35				70	70	70	70	70	70	70	70	70	70	70				
				25					35	35	35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70				
				32						35	35	35	35	35	35	35						70	70	70	70	70	70	70	70	70				
				40							35	35	35	35	35	35							70	70	70	70	70	70	70	70				
			20	50										30	30	30								50	50	50	50	50	50	50				
				63											30	30	30									50	50	50	50	50				
																											35	35	35	35				
Downstream miniature circuit breaker 5SY8	C	-	70	0,3																									Back-up protection not required					
				0,5																									Back-up protection not required					
				1																									Back-up protection not required					
				1,6																									Back-up protection not required					
				2																									Back-up protection not required					
			50	3	Back-up protection not required												70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				4													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
				6													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				8													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
				10													70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
			30	13		35	35	35	35	35	35	35	35	35	35	35		70	70	70	70	70	70	70	70	70	70	70	70	70				
				16			35	35	35	35	35	35	35	35	35	35			70	70	70	70	70	70	70	70	70	70	70	70				
				20				35	35	35	35	35	35	35	35	35				70	70	70	70	70	70	70	70	70	70	70				
				25					35	35	35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70				
				32						35	35	35	35	35	35	35						70	70	70	70	70	70	70	70	70				
				40							35	35	35	35	35	35							70	70	70	70	70	70	70	70				
				50								35	35	35	35	35								50	50	50	50	50	50	50				
63												35										50	50	50	50	50								

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 12/2016					Upstream molded case circuit breaker 3VA2												
					Line protection												
					Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860											
					Size	100 A				160 A				250 A			
					I _{cu} [kA]	55 (M) / 85 (H) / 110 (C) / 150 (L)											
Characteristic	I _{cn} [kA]	I _{cu} [kA]	I _n [A]	25	40	63	100	25	40	63	100	160	160	250			
Downstream miniature circuit breaker 5SY6	B , C	6	30	0,3	55	55	55	55	55	55	55	55	55	55			
				0,5	55	55	55	55	55	55	55	55	55	55			
				1	55	55	55	55	55	55	55	55	55	55	55		
				1,6	55	55	55	55	55	55	55	55	55	55	55		
				2	55	55	55	55	55	55	55	55	55	55	55		
				3	55	55	55	55	55	55	55	55	55	55	55		
		4		55	55	55	55	55	55	55	55	55	55	55			
		5		55	55	55	55	55	55	55	55	55	55	55			
		6	55	55	55	55	55	55	55	55	55	55	55				
		15	8	55	55	55	55	55	55	55	55	55	55	55	55		
			10	55	55	55	55	55	55	55	55	55	55	55	55		
			13	55	55	55	55	55	55	55	55	55	55	55	55		
			15	55	55	55	55	55	55	55	55	55	55	55	55		
			16	55	55	55	55	55	55	55	55	55	55	55	55		
			20		55	55	55		55	55	55	55	40	40			
			25		55	55	55		55	55	55	55	40	40			
			30			55	55			55	55	55	55	40	40		
		32			55	55			55	55	55	55	40	40			
		10	40			35	35			35	35	35	25	25			
			50				35				35	35	20	20			
			63				20				20	20	20	20			
Downstream miniature circuit breaker 5SY4	B , C	10	35	0,3	60	60	60	60	60	60	60	60	60	60			
				0,5	60	60	60	60	60	60	60	60	60	60	60		
				1	60	60	60	60	60	60	60	60	60	60	60		
				1,6	60	60	60	60	60	60	60	60	60	60	60		
				2	60	60	60	60	60	60	60	60	60	60	60		
				2,5	60	60	60	60	60	60	60	60	60	60	60		
				3	60	60	60	60	60	60	60	60	60	60	60		
				3,5	60	60	60	60	60	60	60	60	60	60	60		
				4	60	60	60	60	60	60	60	60	60	60	60		
				5	60	60	60	60	60	60	60	60	60	60	60		
			20	6	60	60	60	60	60	60	60	60	60	60	60	60	
				8	60	60	60	60	60	60	60	60	60	60	60	60	
				10	60	60	60	60	60	60	60	60	60	60	60	60	
				13	60	60	60	60	60	60	60	60	60	60	60	60	
				15	60	60	60	60	60	60	60	60	60	60	60	60	
				16	60	60	60	60	60	60	60	60	60	60	60	60	
				20		60	60	60		60	60	60	60	45	45		
				25		60	60	60		60	60	60	60	45	45		
				30			60	60			60	60	60	60	45	45	
				32			60	60			60	60	60	60	45	45	
			15	35			40	40			40	40	40	30	30		
				40			40	40			40	40	40	30	30		
				45				40				40	40	25	25		
				50				40				40	40	25	25		
				60				25				25	25	25	25		
				63				25				25	25	25	25		

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 12/2016					Upstream molded case circuit breaker 3VA2												
					Line protection												
					Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860											
					Size	100 A				160 A				250 A			
					I _{cu} [kA]	55 (M) / 85 (H) / 110 (C) / 150 (L)											
Characteristic	I _{cn} [kA]	I _{cu} [kA]	I _n [A]	25	40	63	100	25	40	63	100	160	160	250			
Downstream miniature circuit breaker 5SY7	B, C	15	50	0,3	65	65	65	65	65	65	65	65	65	65	65		
				0,5	65	65	65	65	65	65	65	65	65	65	65		
				1	65	65	65	65	65	65	65	65	65	65	65		
				1,6	65	65	65	65	65	65	65	65	65	65	65		
				2	65	65	65	65	65	65	65	65	65	65	65		
			40	3	65	65	65	65	65	65	65	65	65	65	65	65	
				4	65	65	65	65	65	65	65	65	65	65	65	65	
				6	65	65	65	65	65	65	65	65	65	65	65	65	
			30	8	65	65	65	65	65	65	65	65	65	65	65	65	
				10	65	65	65	65	65	65	65	65	65	65	65	65	
				13	65	65	65	65	65	65	65	65	65	65	65	65	
				16	65	65	65	65	65	65	65	65	65	65	65	65	
			25	20		65	65	65		65	65	65	65	50	50	50	
				25		65	65	65		65	65	65	65	50	50	50	
				32			65	65			65	65	65	65	50	50	
				40			45	45			45	45	45	35	35	35	
20	50			45				45	45	45	30	30	30				
	63			30					30	30	30	30	30				
	Downstream miniature circuit breaker 5SY8	C	-	70	0,3	65	65	65	65	70	70	70	70	70	70	70	
0,5					65	65	65	65	70	70	70	70	70	70	70		
1					65	65	65	65	70	70	70	70	70	70	70		
1,6					65	65	65	65	70	70	70	70	70	70	70		
2					65	65	65	65	70	70	70	70	70	70	70		
50				3	65	65	65	65	65	65	65	65	65	65	65		
				4	65	65	65	65	65	65	65	65	65	65	65		
				6	65	65	65	65	65	65	65	65	65	65	65		
40				8	65	65	65	65	65	65	65	65	65	65	65		
				10	65	65	65	65	65	65	65	65	65	65	65		
				13	65	65	65	65	65	65	65	65	65	65	65		
				16		65	65	65		65	65	65	65	65	65		
30				20		65	65	65		65	65	65	65	50	50		
				25		65	65	65		65	65	65	65	50	50		
				32			65	65			65	65	65	65	50		
				40			45	45			45	45	45	35	35		
25	50			45				45	45	45	30	30					
	63			30					30	30	30	30					

Note: Miniature circuit breaker without suffix; e.g. CC, RC, YA, MB
 Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (I_{cu})

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 12/2016				Upstream molded case circuit breaker 3VA1																										
				Line protection																										
				Trip unit	TM210 / TM220 / TM240																									
				Size	100 A										160 A												250 A			
				I _{cu} [kA]	16 (B) / 25 (N) / 36 (S)										25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)			
	Characteristic	I _{en} [kA]	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250			
Downstream miniature circuit breaker 5SL4	B	10	10	1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
				2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				3	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				8	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				13		15	15	15	15	15	15	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
				16			25	25	25	25	25	25	25			60	60	60	60	60	60	60	60	60	60	60	60	35	35	35
				20				25	25	25	25	25	25				50	50	50	50	50	50	50	50	50	50	45	45	45	45
				25					25	25	25	25	25					50	50	50	50	50	50	50	50	50	45	45	45	45
				32							25	25	25							50	50	50	50	50	50	50	45	45	45	45
				40								25	25	25								40	40	40	40	40	30	30	30	30
				50									20	20										35	35	35	35	25	25	25
63										20											25	25	25	25	25	25	25			
Downstream miniature circuit breaker 5SL4	C	10	10	0,3	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
				0,5	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				1	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				1,6	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				2	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				3	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				4	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
				6	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
				8	25	25	25	25	25	25	25	25	25	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				10	25	25	25	25	25	25	25	25	25	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				13		15	15	15	15	15	15	15	15		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
				16			25	25	25	25	25	25	25			60	60	60	60	60	60	60	60	60	60	60	35	35	35	
				20				25	25	25	25	25	25				50	50	50	50	50	50	50	50	50	45	45	45	45	
				25					25	25	25	25	25					50	50	50	50	50	50	50	50	45	45	45	45	
				32							25	25	25							50	50	50	50	50	50	45	45	45	45	
				40								25	25	25								40	40	40	40	40	30	30	30	30
				50									20	20										35	35	35	35	25	25	25
				63										20											25	25	25	25	25	25

Note: Miniature circuit breaker without suffix; e.g. CC, RC, YA, MB
Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (Icu)

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 01/2017					Upstream molded case circuit breaker 3VA2												
					Line protection												
					Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860											
					Size	100 A				160 A				250 A			
					I _{cu} [kA]	55 (M) / 85 (H) / 110 (C) / 150 (L)											
	Characteristic	I _{cn} [kA]	I _{cu} [kA]	I _n [A]	25	40	63	100	25	40	63	100	160	160	250		
Downstream miniature circuit breaker 5SL4	B	10	10	1	20	20	20	20	20	20	20	20	20	20	20		
				2	20	20	20	20	20	20	20	20	20	20	20		
				3	20	20	20	20	20	20	20	20	20	20	20		
				4	20	20	20	20	20	20	20	20	20	20	20		
				6	20	20	20	20	20	20	20	20	20	20	20		
				8	20	20	20	20	20	20	20	20	20	20	20		
				10	20	20	20	20	20	20	20	20	20	20	20		
				13	10	10	10	10	10	10	10	10	10	10	10		
				16	55	55	55	55	55	55	55	55	55	30	30		
				20		45	45	45		45	45	45	45	40	40		
				25		45	45	45		45	45	45	45	45	40		
				32			45	45			45	45	45	45	40		
				40				35	35			35	35	35	25	25	
				50					30				30	30	20	20	
63					20					20	20	20	20				
Downstream miniature circuit breaker 5SL4	C	10	10	0,3	55	55	55	55	55	55	55	55	55	55	55		
				0,5	55	55	55	55	55	55	55	55	55	55	55	55	
				1	55	55	55	55	55	55	55	55	55	55	55	55	
				1,6	55	55	55	55	55	55	55	55	55	55	55	55	
				2	55	55	55	55	55	55	55	55	55	55	55	55	
				3	55	55	55	55	55	55	55	55	55	55	55	55	
				4	55	55	55	55	55	55	55	55	55	55	55	55	
				6	55	55	55	55	55	55	55	55	55	55	55	55	
				8	55	55	55	55	55	55	55	55	55	55	55	55	
				10	55	55	55	55	55	55	55	55	55	55	55	55	
				13	10	10	10	10	10	10	10	10	10	10	10	10	
				16	55	55	55	55	55	55	55	55	55	55	30	30	
				20		45	45	45		45	45	45	45	45	40	40	
				25		45	45	45		45	45	45	45	45	45	40	
				32			45	45			45	45	45	45	45	40	
				40				35	35			35	35	35	25	25	
				50					30				30	30	20	20	
				63					20					20	20	20	20

Note: Miniature circuit breaker without suffix; e.g. CC, RC, YA, MB
 Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (I_{cu})

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017					Upstream molded case circuit breaker 3VA1																									
					Line protection																									
					Trip unit		TM210 / TM220 / TM240																							
							100 A										160 A												250 A	
					Size		16 (B) / 25 (N) / 36 (S)										25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)	
I _{cu} [kA]		16 (B) / 25 (N) / 36 (S)										25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)						
Characteristic		I _{cu} [kA]	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250			
Downstream F/LS-breaker 5SU1...4	B, C	10	35	6	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
				8	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				10	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				13	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				16	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				20	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				25	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				32	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				40	30	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				Downstream F/LS-breaker 5SU1...3 / 5SU1...6	B, C	4,5 / 6	25	6	25	25	25	25	25	25	25	25	25	30	30	30	30	30	30	30	30	30	30	30	30	30
8	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
10	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
13	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
16	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
20	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
25	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
32	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	
40	20	20	20					20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	

Note: Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (Icu)

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017					Upstream molded case circuit breaker 3VA2												
					Line protection												
					Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860											
					Size	100 A				160 A				250 A			
					I _{cu} [kA]	55 (M) / 85 (H) / 110 (C) / 150 (L)											
Characteristic	I _{en} [kA]	I _{cu} [kA]	I _n [A]	25	40	63	100	25	40	63	100	160	160	250			
Nachgeordneter FI/LS-Schalter 5SU1..4	B, C	10	35	6	60	60	60	60	60	60	60	60	60	60			
				8	60	60	60	60	60	60	60	60	60				
				10	60	60	60	60	60	60	60	60	60				
				13	60	60	60	60	60	60	60	60	60				
		15	16	60	60	60	60	60	60	60	60	60	60				
			20		60	60	60		60	60	60	60	45	45			
			25		60	60	60		60	60	60	60	45	45			
			32			60	60			60	60	60	60	45			
Nachgeordneter FI/LS-Schalter 5SU1..3 / 5SU1..6	B, C	4,5 / 6	25	6	55	55	55	55	55	55	55	55	55	55			
				8	55	55	55	55	55	55	55	55	55	55			
				10	55	55	55	55	55	55	55	55	55	55			
				13	55	55	55	55	55	55	55	55	55	55			
		10	16	55	55	55	55	55	55	55	55	55	55	55			
			20		55	55	55		55	55	55	55	40	40			
			25		55	55	55		55	55	55	55	40	40			
			32			55	55			55	55	55	55	40			

Note Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (I_{cu})

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017			Upstream molded case circuit breaker 3VA1																									
			Line protection																									
			Trip unit	TM210 / TM220 / TM240																								
				Size	100 A										160 A												250 A	
			I _{cu} [kA]	16 (B) / 25 (N) / 36 (S)										25 (N) / 36 (S) / 55 (M) / 70 (H)												36 (S) / 55 (M) / 70 (H)		
Characteristic	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250			
Downstream miniature circuit breaker 5SJ4...-HG..	B	10	6	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
			10	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
			13		30	30	30	30	30	30	30	30	30		65	65	65	65	65	65	65	65	65	65	65	65	65	
			15			30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	
			16			30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	
			20				30	30	30	30	30	30	30				65	65	65	65	65	65	65	65	50	50	50	
			25					30	30	30	30	30	30				65	65	65	65	65	65	65	65	50	50	50	
			30						30	30	30	30	30					65	65	65	65	65	65	65	50	50	50	
			32							30	30	30	30						65	65	65	65	65	65	50	50	50	
			35								30	30	30							45	45	45	45	45	35	35	35	
			40									30	30	30						45	45	45	45	45	35	35	35	
			45										25	25							45	45	45	45	30	30	30	
			50										25	25							45	45	45	45	30	30	30	
			60											25									30	30	30	30	30	30
			63											25									30	30	30	30	30	30
Downstream miniature circuit breaker 5SJ4...-HG..	C	10	0.3	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
			0.5	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
			1	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			1.6	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			2	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			3	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			4	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
			5	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			6	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			8	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			10	30	30	30	30	30	30	30	30	30	30	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			13		30	30	30	30	30	30	30	30	30		65	65	65	65	65	65	65	65	65	65	65	65	65	65
			15			30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	65
			16			30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	65
			20				30	30	30	30	30	30	30				65	65	65	65	65	65	65	65	50	50	50	
			25					30	30	30	30	30	30					65	65	65	65	65	65	65	50	50	50	
			30						30	30	30	30	30					65	65	65	65	65	65	65	50	50	50	
			32							30	30	30	30						65	65	65	65	65	65	50	50	50	
			35								30	30	30							45	45	45	45	45	35	35	35	
			40									30	30	30						45	45	45	45	45	35	35	35	
			45										30	30							45	45	45	45	30	30	30	
			50											25	25						45	45	45	45	30	30	30	
			60											25	25								30	30	30	30	30	30
			63											25									30	30	30	30	30	30

Note: Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (I_{cu})
The values specified for 5SJ4...-HG.. are not according to UL but are the manufacturer's specification according to IEC 60947-2 and apply for voltage U_e=230/400 V AC .

Siemens AG Back-up protection [kA] for 230 / 400 V AC acc. to IEC 60947-2 Edition 05/2017					Upstream molded case circuit breaker 3VA1																							
					Line protection																							
					Trip unit	TM210 / TM220 / TM240																						
					Size	100 A								160 A										250 A				
					I _{cu} [kA]	16 (B) / 25 (N) / 36 (S)								25 (N) / 36 (S) / 55 (M) / 70 (H)										36 (S) / 55 (M) / 70 (H)				
		Trip Unit	Size	I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	25	32	40	50	63	80	100	125	160	160	200	250				
Downstream 1-pole molded case circuit breaker 3VA1	Line protection	TM210	160 A	25 (N)	16	36	36	36	36	36	36	36	55	55	55	55	55	55	55	55	55	55	36	36	36			
					20		36	36	36	36	36	36		55	55	55	55	55	55	55	55	36	36	36				
					25			36	36	36	36	36			55	55	55	55	55	55	55	36	36	36				
					32				36	36	36	36				55	55	55	55	55	55	36	36	36				
					40					36	36	36	36					55	55	55	55	55	36	36	36			
					50						36	36	36						55	55	55	55	55	36	36	36		
					63							36								55	55	55	55	36	36	36		
					80																	55	55	36	36	36		
					100																		55	36	36	36		
					125																				36	36	36	
160																					36	36	36					
Downstream 1-pole molded case circuit breaker 3VA1	Line protection	TM210	160 A	36 (S)	16								55	55	55	55	55	55	55	55	55	55	55	55				
					20									55	55	55	55	55	55	55	55	55	55	55	55			
					25										55	55	55	55	55	55	55	55	55	55	55	55		
					32											55	55	55	55	55	55	55	55	55	55	55		
					40												55	55	55	55	55	55	55	55	55	55	55	
					50													55	55	55	55	55	55	55	55	55	55	
					63														55	55	55	55	55	55	55	55	55	
					80																55	55	55	55	55	55	55	
					100																	55	55	55	55	55	55	
					125																		55	55	55	55	55	
160																				55	55	55						
Downstream 1-pole molded case circuit breaker 3VA1	Line protection	TM210	160 A	55 (M)	16								70	70	70	70	70	70	70	70	70	70	70	70				
					20									70	70	70	70	70	70	70	70	70	70	70	70			
					25										70	70	70	70	70	70	70	70	70	70	70	70		
					32											70	70	70	70	70	70	70	70	70	70	70		
					40												70	70	70	70	70	70	70	70	70	70		
					50													70	70	70	70	70	70	70	70	70		
					63														70	70	70	70	70	70	70	70		
					80																70	70	70	70	70	70		
					100																	70	70	70	70	70		
					125																		70	70	70	70		
160																				70	70	70						

Note: Independent of any Back-up value in this table, the maximum available current of the circuit where the upstream breaker is used may not exceed it's short circuit rating (I_{cu})