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SIEMENS

Engineering

Low Voltage Protection Devices

Back-up Protection Tables

Edition

06/2021

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The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

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Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																					
				line protection																					
				TM210 / TM220 / TM240																					
				100 A						160 A						250 A									
Trip unit		Frame size		I_{cu} [kA]@400V																					
				16 / 25 / 36						25 / 36 / 55 / 70						36 / 55 / 70									
				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	5	25	16	36	36	36	36	36	36	55	55	55	55	55	55	55	55	36	36	36		
						20		36	36	36	36	36	55	55	55	55	55	55	55	55	55	36	36	36	
						25			36	36	36	36	55	55	55	55	55	55	55	55	55	55	36	36	36
						32				36	36	36	55	55	55	55	55	55	55	55	55	55	36	36	36
						40					36	36	36	55	55	55	55	55	55	55	55	55	36	36	36
						50						36	36	36	55	55	55	55	55	55	55	55	36	36	36
				63							36	36	55	55	55	55	55	55	55	55	36	36	36		
				80								36	55	55	55	55	55	55	55	55	36	36	36		
				100									55	55	55	55	55	55	55	55	36	36	36		
				125										55	55	55	55	55	55	55	36	36	36		
				160											55	55	55	55	55	55	36	36	36		
				6	36	16									55	55	55	55	55	55	55	55	55	55	55
		20											55	55	55	55	55	55	55	55	55	55	55		
		25												55	55	55	55	55	55	55	55	55	55		
		32													55	55	55	55	55	55	55	55	55		
		40														55	55	55	55	55	55	55	55		
		50															55	55	55	55	55	55	55		
		63															55	55	55	55	55	55			
		80																55	55	55	55	55			
		100																	55	55	55	55			
		125																		55	55	55			
		160																			55	55			
		55	55	16									70	70	70	70	70	70	70	70	70	70	70		
		20											70	70	70	70	70	70	70	70	70	70	70		
25												70	70	70	70	70	70	70	70	70	70				
32													70	70	70	70	70	70	70	70	70				
40														70	70	70	70	70	70	70	70				
50															70	70	70	70	70	70	70				
63																70	70	70	70	70	70				
80																	70	70	70	70	70				
100																	70	70	70	70					
125																		70	70	70					
160																			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 its short circuit rating (I_{cu}).
product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA2													
				line protection													
				Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860												
				Frame size	100 A				160 A				250 A				
				Icu [kA]	55 / 85 / 110 / 150												
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250			
downstream miniature circuit breaker 5SY4	B / C	35	10	0,3	60	60	60	60	60	60	60	60	60	60	60		
				0,5	60	60	60	60	60	60	60	60	60	60	60	60	
				1	60	60	60	60	60	60	60	60	60	60	60	60	60
				1,6	60	60	60	60	60	60	60	60	60	60	60	60	60
				2	60	60	60	60	60	60	60	60	60	60	60	60	60
				2,5	60	60	60	60	60	60	60	60	60	60	60	60	60
				3	60	60	60	60	60	60	60	60	60	60	60	60	60
				3,5	60	60	60	60	60	60	60	60	60	60	60	60	60
				4	60	60	60	60	60	60	60	60	60	60	60	60	60
				5	60	60	60	60	60	60	60	60	60	60	60	60	60
	6	60	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	60			
	10	60	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	60			
	15	60	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	60			
	20		60	60	60		60	60	60	60	60	45	45				
	25		60	60	60		60	60	60	60	60	45	45				
	30			60	60		60	60	60	60	60	60	45				
	32			60	60		60	60	60	60	60	60	45				
40			40	40		40	40	40	40	40	30	30					
45				40			40	40	40	40	25	25					
50				40				40	40	40	25	25					
60					25				25	25	25	25					
63						25				25	25	25	25				
10	10	10	80														

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA2													
				line protection													
				Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860												
				Frame size	100 A				160 A				250 A				
				Icu [kA]	55 / 85 / 110 / 150												
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250			
downstream miniature circuit breaker 5SY6	B / C	30	6	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	55
				1,6	55	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	55
				3	55	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	55
				5	55	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	55	55		
	15	6	8	55	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	55	
			13	55	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	55	
			16	55	55	55	55	55	55	55	55	55	55	55	55	55	
			20		55	55	55		55	55	55	55	55	40	40	40	
			25		55	55	55		55	55	55	55	55	40	40	40	
			32			55	55			55	55	55	55	55	40	40	
	10	6	40			35	35			35	35	35	25	25	25		
			50				35				35	35	20	20			
			63					20				20	20	20			
												20	20				

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA2														
				line protection														
				Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860													
				Frame size	100 A				160 A				250 A					
				Icu [kA]	55 / 85 / 110 / 150													
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250				
downstream miniature circuit breaker 5SY7	B / C	50	15	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	65		
				1	65	65	65	65	65	65	65	65	65	65	65	65	65	
				1,6	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				2	65	65	65	65	65	65	65	65	65	65	65	65	65	65
		40	15	3	65	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	65	
				6	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				8	65	65	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	65	65
	25	15	13	65	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	65		
			20		65	65	65		65	65	65	65	65	50	50			
			25		65	65	65		65	65	65	65	65	50	50			
			32			65	65		65	65	65	65	65	65	50			
	20	15	40			45	45		45	45	45	45	35	35				
			50				45		45	45	45	30	30					
			63				30		30	30	30	30	30					

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA2													
				line protection													
				Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860												
				Frame size	100 A				160 A				250 A				
				Icu [kA]	55 / 85 / 110 / 150												
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250			
downstream miniature circuit breaker 5SY8	C	n. a.	0,3	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	
			1	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
			2	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			3	65	65	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	65	65
			6	65	65	65	65	65	65	65	65	65	65	65	65	65	65
			8	65	65	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	65	65
			13	65	65	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
			20		65	65	65		65	65	65	65	65	65	50	50	50
			25		65	65	65		65	65	65	65	65	65	50	50	50
			32			65	65			65	65	65	65	65	65	65	50
			40				45	45			45	45	45	45	35	35	35
			50					45				45	45	45	30	30	30
			63							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 (Icu).

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Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021			upstream molded case circuit breaker 3VA2														
			line protection														
			Trip unit	ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860													
			Frame size	100 A				160 A				250 A					
			Icu [kA]	55 / 85 / 110 / 150													
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250			
	B	10	10	1	20	20	20	20	20	20	20	20	20	20	20	20	
2				20	20	20	20	20	20	20	20	20	20	20	20	20	
3				20	20	20	20	20	20	20	20	20	20	20	20	20	20
4				20	20	20	20	20	20	20	20	20	20	20	20	20	20
6				20	20	20	20	20	20	20	20	20	20	20	20	20	20
8				20	20	20	20	20	20	20	20	20	20	20	20	20	20
10				20	20	20	20	20	20	20	20	20	20	20	20	20	20
13				15	15	15	15	15	15	15	15	15	15	15	15	15	15
16				55	55	55	55	55	55	55	55	55	55	55	55	30	30
20					45	45	45		45	45	45	45	45	45	45	40	40
25					45	45	45		45	45	45	45	45	45	45	45	40
32						45	45		45	45	45	45	45	45	45	45	40
40						35	35		35	35	35	35	35	35	35	25	25
50							30				30	30	30	30	30	20	20
63							20					20	20	20	20	20	20
C	10	10	0,3	55	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	55	
			1	55	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	55	
			2	55	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	55	
			4	55	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	55	
			8	55	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	55	
			13	15	15	15	15	15	15	15	15	15	15	15	15	15	15
			16	55	55	55	55	55	55	55	55	55	55	55	55	30	30
			20		45	45	45		45	45	45	45	45	45	45	40	40
			25		45	45	45		45	45	45	45	45	45	45	45	40
			32			45	45		45	45	45	45	45	45	45	45	40
40			35	35		35	35	35	35	35	35	35	25	25			
50				30				30	30	30	30	30	20	20			
63				20					20	20	20	20	20	20			

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).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																															
				line protection																															
				Trip unit TM210 / TM220 / TM240																															
				100 A												160 A										250 A									
Characteristic	Icu [kA]	Icn [kA]	In [A]	16 / 25 / 36									25 / 36 / 55 / 70										36 / 55 / 70												
				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	B	35	10	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	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	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	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	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	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	65	65	65	65	65
	B	20	10	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	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	65	65	65	65	
				13		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	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	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	65	65	65	65	65	65
				25					30	30	30	30	30	30	30					65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	B	15	10	32					30	30	30	30	30					65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
				40							30	30	30	30						65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
				50									25	25							65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	B	10	10	63									25									45	45	45	45	45	45	45	45	45	45	45	45		
				80											25										30	30	30	30	30	30	30	30	30	30	30

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																														
				line protection																														
				TM210 / TM220 / TM240																														
				100 A												160 A										250 A								
				16 / 25 / 36												25 / 36 / 55 / 70										36 / 55 / 70								
Characteristic	Icu [kA]	Icn [kA]	In [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	35	10	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	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	65	65			
				1	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	65	65	65		
				1,6	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	65	65	65		
				2	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	65	65	65		
				2,5	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	65	65	65	65	
				3	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	65	65	65	65	
				3,5	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	65	65	65	65	65
				4	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	65	65	65	65	65
		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	65	65	65	65	65		
		6	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	65	65	65	65	65		
		8				30	30	30	30	30	30	30	30	30	65	65	65	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	65	65	65	65	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	65	65	65	65		
		15						30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
		16						35	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
		20								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				65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
	30										30	30	30	30				65	65	65	65	65	65	65	65	65	65	65	65	65	65			
	32											30	30	30				65	65	65	65	65	65	65	65	65	65	65	65	65	65			
	40												30	30	30				45	45	45	45	45	45	45	45	45	45	45	45	45			
	45													30	30					45	45	45	45	45	45	45	45	45	45	45	45			
	50														25	25					45	45	45	45	45	45	45	45	45	45	45			
	60															25	25						30	30	30	30	30	30	30	30	30			
	63																25							30	30	30	30	30	30	30	30			
	80																																	

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																											
				line protection																											
				TM210 / TM220 / TM240																											
				100 A												160 A										250 A					
				16 / 25 / 36												25 / 36 / 55 / 70										36 / 55 / 70					
Characteristic	Icu [kA]	Icn [kA]	In [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 5SY6	B	30	6	2	30	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	40	40	35	35	35			
				4	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	40	40	35	35	35	
				6	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	40	40	40	40	40	40	40	40	35	35	35	
		15	6	10	25	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	40	25	25	25	25	25		
				13		25	25	25	25	25	25	25	25	25		60	60	60	40	40	40	40	40	40	25	25	25	25	25		
				16			25	25	25	25	25	25	25	25			60	60	40	40	40	40	40	40	25	25	25	25	25		
	20						25	25	25	25	25	25	25				60	40	40	40	40	40	40	25	25	25	25	25			
	25							25	25	25	25	25	25					40	40	40	40	40	40	25	25	25	25	25			
	32								25	25	25	25	25						40	40	40	40	40	40	25	25	25	25	25		
	10	6	40								20	20	20								25	25	25	25	25	25	25	25			
			50									15	15										25	25	25	25	20	20	20		
			63										15											20	20	20	20	20	20		

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																															
				line protection																															
				TM210 / TM220 / TM240																															
				100 A												160 A										250 A									
Characteristic	Icu [kA]	Icn [kA]	In [A]	16 / 25 / 36									25 / 36 / 55 / 70										36 / 55 / 70												
				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	C	30	6	0,3	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
				0,5	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
				1	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
				1,6	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
				2	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
				3	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
		4	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
		5	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
		6	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
		8	25	25	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30		
	10	25	25	25	25	25	25	25	25	25	25	25	60	60	60	60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	13		25	25	25	25	25	25	25	25	25	25		60	60	60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	15			25	25	25	25	25	25	25	25	25			60	60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	16			25	25	25	25	25	25	25	25	25			60	60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	20				25	25	25	25	25	25	25	25				60	40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	25					25	25	25	25	25	25	25					40	40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	32						25	25	25	25	25	25						40	40	40	40	40	40	30	30	30	30	30	30	30	30	30			
	40							20	20	20	20	20							25	25	25	25	25	25	25	25	25	25	25	25	25	25			
	50								15	15	15	15								25	25	25	25	25	25	25	25	25	25	25	25	25			
	63									15	15	15									20	20	20	20	20	20	20	20	20	20	20	20			

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																											
				line protection																											
				TM210 / TM220 / TM240																											
				100 A									160 A									250 A									
				16 / 25 / 36									25 / 36 / 55 / 70									36 / 55 / 70									
Characteristic	Icu [kA]	Icn [kA]	In [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 5SY7	B	40	15	6	40	40	40	40	40	40	40	40	40	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	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
		25	15	13		35	35	35	35	35	35	35	35	35		70	70	70	70	70	70	70	70	70	70	70	70	70	70		
				16			35	35	35	35	35	35	35	35			70	70	70	70	70	70	70	70	70	70	70	70	70	70	
				20				35	35	35	35	35	35	35				70	70	70	70	70	70	70	70	70	70	70	70	70	
				25					35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70	70	70	
	20	15	32					35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70	70			
			40						35	35	35	35	35						50	50	50	50	50	50	50	50	50	50	50		
			50								35	35	35	35							50	50	50	50	50	50	50	50	50	50	
			63									35	35	35									50	50	50	50	50	50	50	50	
														30	30										50	50	50	50	50	50	
															30											35	35	35	35	35	35
	C	50	15	0,3	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
				0,5	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
				1	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
				1,6	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
				2	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
				3	40	40	40	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
40		15	4	40	40	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
			6	40	40	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
			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		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
			16			35	35	35	35	35	35	35	35	35			70	70	70	70	70	70	70	70	70	70	70	70	70	70	
25		15	20				35	35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70	70	70		
			25					35	35	35	35	35	35						70	70	70	70	70	70	70	70	70	70	70		
			32						35	35	35	35	35	35						70	70	70	70	70	70	70	70	70	70	70	
			40							35	35	35	35	35							50	50	50	50	50	50	50	50	50	50	
			50									35	35	35								50	50	50	50	50	50	50	50	50	
			63											30	30								50	50	50	50	50	50	50	50	
20	15	63										30	30									35	35	35	35	35	35	35			

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																											
				line protection																											
				TM210 / TM220 / TM240																											
				100 A												160 A										250 A					
				16 / 25 / 36												25 / 36 / 55 / 70										36 / 55 / 70					
Characteristic	Icu [kA]	Icn [kA]	In [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 5SY8	C	n.a.	0,3	70	70	70	70	70	70	70	70	70	70	70	70	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	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	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	70	70	70	70	70	70	70	70	70	70	70	70	70
			2	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			3	50	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			4	50	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			6	50	50	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			8	40	40	40	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
			10	40	40	40	40	40	40	40	40	40	40	40	40	70	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	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	70	70
			20				35	35	35	35	35	35	35	35	35				70	70	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	70	70	70
			32						35	35	35	35	35	35	35					70	70	70	70	70	70	70	70	70	70	70	70
			40							35	35	35	35	35	35						50	50	50	50	50	50	50	50	50	50	50
			50								35	35	35	35	35							50	50	50	50	50	50	50	50	50	50
63									35	35	35	35									35	35	35	35	35	35	35	35			

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).
product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																										
				line protection																										
				Trip unit TM210 / TM220 / TM240																										
				Characteristic	Icu [kA]	Icn [kA]	In [A]	100 A									160 A											250 A		
16 / 25 / 36									25 / 36 / 55 / 70											36 / 55 / 70										
				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			
				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
				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	50	45	45	45
				25					25	25	25	25	25					50	50	50	50	50	50	50	50	50	45	45	45	
				32								25	25	25							50	50	50	50	50	50	45	45	45	
				40									25	25	25						40	40	40	40	40	40	30	30	30	
				50										20	20							35	35	35	35	35	25	25	25	
63											20									25	25	25	25	25	25	25				
	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			
				0,5	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
				1	30	30	30	30	30	30	30	30	30	30	30	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	30	30	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	30	30	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	30	30	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	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	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	25	25	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	25	25	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	
				25					25	25	25	25	25						50	50	50	50	50	50	50	50	45	45	45	
				32									25	25	25							50	50	50	50	50	45	45	45	
				40										25	25	25						40	40	40	40	40	30	30	30	
50											20	20							35	35	35	35	25	25	25					
63												20								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).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																												
				line protection																												
				TM210 / TM220 / TM240																												
				100 A										160 A										250 A								
				16 / 25 / 36										25 / 36 / 55 / 70										36 / 55 / 70								
Characteristic	I_{n1} [kA]	I_{n2} [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						
B	10	10	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					
			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	65			
			15			30	30	30	30	30	30	30	30			65	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	65			
			20					30	30	30	30	30	30					65	65	65	65	65	65	65	65	65	65	50	50	50		
			25						30	30	30	30	30						65	65	65	65	65	65	65	65	65	50	50	50		
			30							30	30	30	30							65	65	65	65	65	65	65	65	50	50	50		
			32								30	30	30								65	65	65	65	65	65	65	50	50	50		
			35									30	30									45	45	45	45	45	45	35	35	35		
			40										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	30	30	30		
			60													25										30	30	30	30	30		
			63														25									30	30	30	30	30		
			C	10	10	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	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	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	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	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	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	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	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	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	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	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	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	65	65		
15						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				65	65	65	65	65	65	65	65	65	65	65	65	65	65		
20								30	30	30	30	30	30					65	65	65	65	65	65	65	65	65	65	65	50	50	50	
25									30	30	30	30	30						65	65	65	65	65	65	65	65	65	50	50	50		
30										30	30	30	30							65	65	65	65	65	65	65	65	50	50	50		
32											30	30	30								65	65	65	65	65	65	65	50	50	50		
35												30	30									45	45	45	45	45	45	35	35	35		
40													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	30	30	30					
60													25										30	30	30	30	30					
63														25									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 its short circuit rating (Icu).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG
Backup-Protection [kA]
for 230/400 V AC
acc. to IEC 60947-2

Edition 06/2021

upstream molded case circuit breaker 3VA2

line protection

Trip unit ETU320 / ETU330 / ETU340 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860

Frame size 100 A 160 A 250 A

Icu [kA] 36 / 55 / 85 / 110 / 150

downstream RCBO 5SU1, 1P+N / 2P

Characteristic	Icu [kA]	Icn [kA]	In [A]	Icu [kA]											
				25	40	63	100	25	40	63	100	160	160	250	
B	15	6	6	55	55	55	55	55	55	55	55	55	55	55	55
			10	55	55	55	55	55	55	55	55	55	55	55	
			13	55	55	55	55	55	55	55	55	55	55	55	
			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	
	10	32			55	55			55	55	55	55	40		
		40			35	35			35	35	35	25	25		
		20	10	6	60	60	60	60	60	60	60	60	60	60	
				10	60	60	60	60	60	60	60	60	60	60	
13	60			60	60	60	60	60	60	60	60	60			
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		
15	4,5 / 6	32			60	60			60	60	60	60	45		
		40			40	40			40	40	40	30	30		
		20	10	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			
16	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		
40					35	35			35	35	35	25	25		
15	10			6	60	60	60	60	60	60	60	60	60	60	
		8	60	60	60	60	60	60	60	60	60	60			
		10	60	60	60	60	60	60	60	60	60	60			
		13	60	60	60	60	60	60	60	60	60	60			
		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		
		40			40	40			40	40	40	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 its short circuit rating (Icu).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2

Edition 06/2021

downtstream RCBO 5SU1, 1P+N / 2P

Characteristic		upstream molded case circuit breaker 3VA1																										
		line protection																										
		TM210 / TM220 / TM240																										
		100 A										160 A										250 A						
		16 / 25 / 36										25 / 36 / 55 / 70										36 / 55 / 70						
		In [A]	16	20	25	32	40	50	63	80	100	16	20	25	32	40	50	63	80	100	125	160	160	200	250			
B	6	25	25	25	25	25	25	25	25	25	25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
		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	25	
		13		20	20	20	20	20	20	20	20	20		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
		16			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				25	25	25	25	25	25	25	25	25	25	25	25	25
		25					20	20	20	20	20	20					25	25	25	25	25	25	25	25	25	25	25	25
	10	32					20	20	20	20	20						25	25	25	25	25	25	25	25	25	25	25	
		40						15	15	15	15							20	20	20	20	20	20	20	20	20	20	
		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	
		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	
		16			30	30	30	30	30	30	30	30			65	65	65	65	65	65	65	65	65	65	65	65	65	
C	4,5/6	20				30	30	30	30	30	30						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		
		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	
		6	25	25	25	25	25	25	25	25	25	25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
		8	20	20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
	10	10	20	20	20	20	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
		13		20	20	20	20	20	20	20	20		25	25	25	25	25	25	25	25	25	25	25	25	25	25		
		16			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				25	25	25	25	25	25	25	25	25	25	25	25		
		25					20	20	20	20	20					25	25	25	25	25	25	25	25	25	25	25		
		32						20	20	20	20						25	25	25	25	25	25	25	25	25	25		
10	40							15	15	15								20	20	20	20	20	20	20	20			
	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	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	65	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	65			
	16			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					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			
10	32						30	30	30	30							45	45	45	45	45	45	45	45	45			
	40							30	30	30								45	45	45	45	45	45	45	45			

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 its short circuit rating (Icu).
 product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA2												
				line protection												
				Trip unit ETU320 / ETU330 / ETU350 / ETU550 / ETU560 / ETU850 / ETU860												
				Frame size 100 A				160 A				250 A				
				Icu [kA] 55 / 85 / 110 / 150												
Characteristic		Icu [kA]	Icn [kA]	In [A]	25	40	63	100	25	40	63	100	160	160	250	
downstream RCBO 5SV1, 1P+N / 2P	B	35	6	6	35	35	35	35	35	35	35	35	35	35	35	
				10	25	25	25	25	25	25	25	25	25	25		
		15	6	13	15	15	15	15	15	15	15	15	15	15	15	15
				16	15	15	15	15	15	15	15	15	15	15	15	
	C	10	6	2	10	10	10	10	10	10	10	10	10	10	10	10
				4	10	10	10	10	10	10	10	10	10	10	10	
				6	25	25	25	20	20	20	20	20	20	20	20	
				10	25	25	25	10	15	15	15	10	10	10	10	
					13	10	10	10	10	10	10	10	10	10	10	
					16	10	10	10	10	10	10	10	10	10	10	
	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). product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.													

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream molded case circuit breaker 3VA1																													
				line protection																													
				Trip unit		TM210 / TM220 / TM240																											
				Frame size		100 A										160 A										250 A							
Icu [kA]		16 / 25 / 36										25 / 36 / 55 / 70										36 / 55 / 70											
Characteristic	Icu [kA]	Icn [kA]	In [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 RCBO 5SV1, 1P+N / 2P	B	6	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35						
			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	25				
			15	25	25	25	20	20	20	20	20		25	25	25	20	20	20	20	20	20	20	20	20	20	20	15	15	15				
	C	10	6	16		25	25	20	20	20	20	20			25	25	20	20	20	20	20	20	20	20	20	15	15	15					
				2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
				4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
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	25			
10				25	25	25	25	25	25	25	25	25	25	25	25	25	20	20	20	20	20	20	20	20	20	20	10	10	10				
13					20	20	20	10	10	10	10	10		25	25	25	10	10	10	10	10	10	10	10	10	10	10	10	10				
			20	20	10	10	10	10	10			25	25	10	10	10	10	10	10	10	10	10	10	10	10	10	10						

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).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NH-fuse 3NA																															
				line protection																															
				Icu [kA]	120																														
				Trip unit	gG																														
				U _n fuse [V]	400 / 500 / 690																														
Frame size	000 / 00 / 0 / 1 / 2 / 3 / 4 / 4a																																		
Charakteristik	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	16	20	25	32	35	40	50	63	80	100	125	160	200	224	250	300	315	355	400	425	500	630	800	1000	1250			
B	10	10	1	50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
			2		50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
			3			50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
			4				50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
			6					50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
			8						50	50	50	50	50	50	50	50	70	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
			10							50	50	50	50	50	50	50	70	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
			13								50	50	50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
			16									50	50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
			20										50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
			25											50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
			32												50	50	70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			40													50	70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			50														70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			63															10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
			C	10	10	0,3	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
0,5	50	50				50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
1	50	50				50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
1,6	50	50				50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2		50				50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
3						50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
4							50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
6								50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
8									50	50	50	50	50	50	50	70	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10										50	50	50	50	50	50	70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
13											50	50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
16												50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
20													50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
25														50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
32															50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
40																70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
50														70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
63															10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NH-fuse 3NA																																
				line protection																																
				Icu [kA]	120																															
				Trip unit	gG																															
				U _n fuse [V]	400 / 500 / 690																															
Frame size	000 / 00 / 0 / 1 / 2 / 3 / 4 / 4a																																			
Charakteristik	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	16	20	25	32	35	40	50	63	80	100	125	160	200	224	250	300	315	355	400	425	500	630	800	1000	1250				
downstream miniature circuit breaker 5SL4	D	10	10	0,3	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				2		50	50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				3			50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				4			50	50	50	50	50	50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				6				50	50	50	50	50	50	50	50	50	50	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
				8					50	50	50	50	50	50	50	50	50	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
				10						50	50	50	50	50	50	50	50	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
				13							50	50	50	50	50	50	50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
				16								50	50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				20									50	50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				25										50	50	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				32											50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				40												50	70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
50													70	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
63														10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
downstream miniature circuit breaker 5SL6 (except 5SL60)	B / C	6	6	0,3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
				0,5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
				1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
				1,6		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
				2		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
				3			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
				4			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
				6				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				8					6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				10						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				13							6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				16								6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				20									6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				25										6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				32											6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
				40												6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
50													6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
63														6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				

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 its short circuit rating (Icu).
product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG
Backup-Protection [kA]
for 230/400 V AC
acc. to IEC 60947-2

Edition 06/2021

upstream NH-fuse 3NA

line protection

Trip unit

gG

Icu [kA]

120

U_n fuse [V]

400 / 500 / 690

Frame size

000 / 00 / 0 / 1 / 2

downstream RCBO 5SU1, 1P+N / 2P	Characteristic	Icu [kA]	Icn [kA]	In [A]	upstream NH-fuse 3NA															
					10	16	20	25	32	35	40	50	63	80	100	125	160			
B / C	25	15	4,5 / 6	6	50	50	50	50	50	50	50	50	50	50	50	50	50	35		
				8		50	50	50	50	50	50	50	50	50	50	50	50	50	35	
				10		50	50	50	50	50	50	50	50	50	50	50	50	50	35	
				13			50	50	50	50	50	50	50	50	50	35	35	30		
				16				50	50	50	50	50	50	50	50	35	30	30		
				20					50	50	50	50	50	50	50	35	25	25		
				25								50	50	50	50	35	30	25		
				32									50	50	50	35	30	25		
				40										50	50	50	25	15		
	35	20	10	6	50	50	50	50	50	50	50	50	50	50	50	50	45	45		
				8		50	50	50	50	50	50	50	50	50	50	50	45	45		
				10		50	50	50	50	50	50	50	50	50	50	50	45	45		
				13			50	50	50	50	50	50	50	50	50	45	40	35		
				16				50	50	50	50	50	50	50	50	45	40	35		
				20					50	50	50	50	50	50	50	40	35	30		
				25							50	50	50	50	50	40	35	30		
				32								50	50	50	50	45	40	30		
				40									50	50	50	45	40	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 its short circuit rating (Icu).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG
Backup-Protection [kA]
for 230/400 V AC
acc. to IEC 60947-2

Edition 06/2021

upstream NH-fuse 3NA

line protection

Trip unit

gG

Icu [kA]

120

Ub fuse [V]

400 / 500 / 690

Frame size

000 / 00 / 0 / 1 / 2

	Trip unit	Icn [kA]	Icu [kA]	In [A]	2	4	6	10	16	20	25	32	35	40	50	63	80	100	125			
downstream RCBO 5SV1, 1P+N / 2P	B	6	35	6				120	120	120	120	120	120	100	40	35	35	35	35			
			25	10					120	120	120	120	120	100	40	35	35	30	25			
			15	13							120	120	120	120	100	40	35	35	30	15		
				16								120	120	120	100	40	35	35	30	15		
			C	6	10	2		120	120	120	120	120	120	120	120	120	50	25	25	20	15	10
						4			120	120	120	120	120	120	120	80	35	35	20	20	10	
	6							120	120	120	120	120	120	80	35	35	35	30	10			
	10								120	120	120	120	120	80	35	35	35	30	10			
	13										120	120	120	120	80	40	35	35	30	10		
	16												120	120	120	80	40	35	35	30	10	

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).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream SITOR-fuse 3NE												
				utilisation category		gR						gS				
				Icu [kA]		100						100				
				U _n fuse [V]		690						690				
				Frame size		00						000				
downstream RCBO 5SV1, 1P+N / 2P	Characteristic	Icu [kA]	Icn [kA]	In [A]	25	35	50	63	80	100	125	20	35	40	63	80
	B	15	35	6	6	100	100	100	100	100	100	100	100	100	100	100
10					100	100	100	100	100	100	100	100	100	100	100	100
13					100	100	100	100	100	100	100	100	100	100	100	100
10		6	2		100	100	100	100	100	80	50	100	100	100	50	30
			4		100	100	100	100	100	100	80	100	100	100	100	40
			6		100	100	100	100	100	100	100	100	100	100	100	100
C	10	6	10	100	100	100	100	100	100	100	100	100	100	100	100	
			13	100	100	100	100	100	100	100	100	100	100	100	100	
				16	100	100	100	100	100	100	100	100	100	100	100	100

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).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021			upstream DIAZED-fuse																	
			5SB2						5SB4				5SC2							
			Icu [kA]		50															
			utilisation category		gG															
Characteristic			Icu [kA]		Icn [kA]		In [A]		DII				DIII				DIV			
									2	4	6	10	16	20	25	32	35	50	63	80
downstream miniature circuit breaker 5SY4	A / B / C / D	35	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			2,5		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			3			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			3,5			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			4			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			5				50	50	50	50	50	50	50	50	50	50	50	50	50	50
	6					50	50	50	50	50	50	50	50	50	50	50	50	50		
	8						50	50	50	50	50	50	50	50	50	50	50	50		
	10						50	50	50	50	50	50	50	50	50	50	50	50		
	13							50	50	50	50	50	50	50	50	50	45	45		
	15								50	50	50	50	50	50	50	50	45	45		
	16									50	50	50	50	50	50	50	45	45		
	20										50	50	50	50	50	50	40	40		
	25											50	50	50	50	50	40	40		
	30												50	50	50	50	45	45		
	32													50	50	50	45	45		
40														50	50	45	45			
45															50	40	40			
50																50	40			
60																	40	40		
63																		40		

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream DIAZED-fuse															
				5SB2						5SB4				5SC2					
				Icu [kA]				50											
				utilisation category				gG											
				Frame size				DII				DIII				DIV			
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	16	20	25	32	35	50	63	80	100			
downstream miniature circuit breaker 5SY6	B / C / D	30	6	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50		
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2		50	50	50	50	50	50	50	50	50	50	50	50	50	50
				3			50	50	50	50	50	50	50	50	50	50	50	50	50
				4			50	50	50	50	50	50	50	50	50	50	50	50	50
				5				50	50	50	50	50	50	50	50	50	50	50	50
				6					50	50	50	50	50	50	50	50	50	50	50
	8						50	50	50	50	50	50	50	50	50	50			
	10							50	50	50	50	50	50	50	50	50			
	13								50	50	50	50	50	50	50	35			
	15									50	50	50	50	50	50	35			
	16										50	50	50	50	50	35			
	20											50	50	50	50	35			
	25												50	50	50	35			
	32													50	50	35			
	40														50	50			
50															50	50			
63																25			

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream DIAZED-fuse														
				5SB2						5SB4				5SC2				
				Icu [kA]		50												
				utilisation category		gG												
				Frame size		DII						DIII				DIV		
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	16	20	25	32	35	50	63	80	100		
downstream miniature circuit breaker 5SY7	B / C / D	50	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50	50	50	50
		40	3			50	50	50	50	50	50	50	50	50	50	50	50	50
			4			50	50	50	50	50	50	50	50	50	50	50	50	50
			6				50	50	50	50	50	50	50	50	50	50	50	50
			8					50	50	50	50	50	50	50	50	50	50	50
		25	10						50	50	50	50	50	50	50	50	50	50
			13							50	50	50	50	50	50	50	50	45
			16								50	50	50	50	50	50	50	45
			20									50	50	50	50	50	50	40
			25											50	50	50	50	40
			32												50	50	50	45
			40													50	50	45
		20 / 15	50														50	40
63																40		

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021			upstream DIAZED-fuse																		
			5SB2							5SB4				5SC2							
			Icu [kA]		50																
			utilisation category		gG																
			Frame size		DII						DIII				DIV						
Characteristic	Icu [kA]	Icn [kA]	In [A]		2	4	6	10	16	20	25	32	35	50	63	80	100				
downstream miniature circuit breaker 5SY8	C / D	70	n. a.	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				3			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		4					50	50	50	50	50	50	50	50	50	50	50	50	50	50	
		6						50	50	50	50	50	50	50	50	50	50	50	50	50	
		8							50	50	50	50	50	50	50	50	50	50	50	50	
		10								50	50	50	50	50	50	50	50	50	50	50	
		13										50	50	50	50	50	50	50	45	45	
		16												50	50	50	50	50	45	45	
		20													50	50	50	50	40	40	
		25														50	50	50	40	40	
		32															50	50	45	45	
		40																50	45	45	
		50																	50	40	
		63																			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 (Icu).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2
 Edition 06/2021

upstream DIAZED-fuse

5SD8

Icu [kA]

50

utilisation category

gG

Frame size

DIII

Characteristic	Icu [kA]	Icn [kA]	In [A]	Icn [kA]														
				2	4	6	10	16	20	25	35	50	63					
A / B / C / D	35	10	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50	50	50	50
			2,5		50	50	50	50	50	50	50	50	50	50	50	50	50	50
			3			50	50	50	50	50	50	50	50	50	50	50	50	50
			3,5			50	50	50	50	50	50	50	50	50	50	50	50	50
			4			50	50	50	50	50	50	50	50	50	50	50	50	50
	5					50	50	50	50	50	50	50	50	50	50	50	50	
	6						50	50	50	50	50	50	50	50	50	50	50	
	8							50	50	50	50	50	50	50	50	50	50	
	10								50	50	50	50	50	50	50	50	50	
	13									50	50	50	50	50	50	50	50	
	15										50	50	50	50	50	50	50	
	16											50	50	50	50	50	50	
	20												50	50	50	50	50	
	25													50	50	50	50	
30													50	50	50			
32														50	50			
40															50			
45																		
50																		
60																		
63																		

downstream miniature circuit breaker 5SY4

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2

Edition 06/2021

upstream DIAZED-fuse

5SD8

Icu [kA]

50

utilisation category

gG

Frame size

DIII

Characteristic	Icu [kA]	Icn [kA]	In [A]	upstream DIAZED-fuse											
				2	4	6	10	16	20	25	35	50	63		
downstream miniature circuit breaker 5SY6	B / C / D	30	0,3	50	50	50	50	50	50	50	50	50	50	50	50
			0,5	50	50	50	50	50	50	50	50	50	50	50	50
			1	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50
			3			50	50	50	50	50	50	50	50	50	50
			4			50	50	50	50	50	50	50	50	50	50
			5				50	50	50	50	50	50	50	50	50
			6				50	50	50	50	50	50	50	50	50
			8					50	50	50	50	50	50	50	50
	10					50	50	50	50	50	50	50	50		
	13						50	50	50	50	50	50	50		
	15							50	50	50	50	50	50		
	16								50	50	50	50	50		
	20									50	50	50	50		
	25										50	50	50		
	32											50	50		
	40												50		
	50													50	
	63														50

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2

Edition 06/2021

upstream DIAZED-fuse

5SD8

Icu [kA]

50

utilisation category

gG

Frame size

DIII

Characteristic	Icu [kA]	Icn [kA]	In [A]													
				2	4	6	10	16	20	25	35	50	63			
B / C / D	50	15	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50
			1	50	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50	50
			3			50	50	50	50	50	50	50	50	50	50	50
	4				50	50	50	50	50	50	50	50	50	50	50	
	6					50	50	50	50	50	50	50	50	50	50	
	8						50	50	50	50	50	50	50	50	50	
	10						50	50	50	50	50	50	50	50	50	
	13							50	50	50	50	50	50	50	50	
	16								50	50	50	50	50	50	50	
	20									50	50	50	50	50	50	
	25										50	50	50	50	50	
	32											50	50	50	50	
	40												50	50	50	
	50													50	50	
	63														50	50

Siemens AG
Backup-Protection [kA]
for 230/400 V AC
acc. to IEC 60947-2

Edition 06/2021

upstream DIAZED-fuse

5SD8

Icu [kA]

50

utilisation category

gG

Frame size

DIII

Characteristic	Icu [kA]	Icn [kA]	In [A]													
				2	4	6	10	16	20	25	35	50	63			
C / D	70	n. a.	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50
			1	50	50	50	50	50	50	50	50	50	50	50	50	50
			1,6		50	50	50	50	50	50	50	50	50	50	50	50
			2		50	50	50	50	50	50	50	50	50	50	50	50
			3			50	50	50	50	50	50	50	50	50	50	50
	4					50	50	50	50	50	50	50	50	50	50	
	6						50	50	50	50	50	50	50	50	50	
	8							50	50	50	50	50	50	50	50	
	10								50	50	50	50	50	50	50	
	13									50	50	50	50	50	50	
	16										50	50	50	50	50	
	20											50	50	50	50	
	25												50	50	50	
	32													50	50	
	40														50	
	50															50
	63															

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).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2
 Edition 06/2021

upstream DIAZED-fuse
 5SB2 5SB4 5SD8
 Icu [kA] 50
 utilisation category gG
 Frame size DII DIII DIII

downstream miniature circuit breaker 5SL4	Characteristic B / C	Icu [kA] 10	Icn [kA] 10	In [A]	upstream DIAZED-fuse																							
					5SB2								5SB4				5SD8											
					2	4	6	10	16	20	25	32	35	50	63	2	4	6	10	16	20	25	35	50	63			
0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
2		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
3			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
4			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
6				50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
8					50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
10					50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
13						50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
16							50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
20								50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
25									50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
32										50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
40											50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
50												50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
63													50	50	50	50	50	50	50	50	50	50	50	50	50	50		
0,3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
0,5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1,6		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
2		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
3			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
4				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
6					6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
8						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
10							6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
13								6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
16									6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
20										6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
25											6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
32												6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
40													6	6	6	6	6	6	6	6	6	6	6	6	6	6		
50														6	6	6	6	6	6	6	6	6	6	6	6	6		
63															6	6	6	6	6	6	6	6	6	6	6	6		

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 its short circuit rating (Icu).
 product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream DIAZED-fuse																				
				5SB2				5SB4				5SC2		5SD8										
				I _{cu} [kA]				50																
				utilisation category				gG																
Characteristic		I _{cu} [kA]		I _{cn} [kA]		In [A]		DII				DIII				DIV		DIII						
								10	16	20	25	32	35	50	63	80	100	10	16	20	25	35	50	63
downstream RCBO 5SU1, 1P+N / 2P	B / C	25	4,5 / 6	6	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
				8		50	50	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	
				10		50	50	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50
				13			50	50	50	50	50	50	50	35			50	50	50	50	50	50	50	50
				16				50	50	50	50	50	50	35				50	50	50	50	50	50	50
		20						50	50	50	50	50	35					50	50	50	50	50	50	
		25								50	50	50	35						50	50	50	50	50	
		32										50	35								50	50	50	
		40											50	50								50	50	
		15 / 10		20	10	6	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	8					50	50	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	
	10					50	50	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50
	13						50	50	50	50	50	50	50	45			50	50	50	50	50	50	50	50
	16							50	50	50	50	50	50	45				50	50	50	50	50	50	50
	20								50	50	50	50	50	40					50	50	50	50	50	50
	25										50	50	50	40						50	50	50	50	50
	32												50	45								50	50	50
	40													50	45								50	50

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}).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream DIAZED-fuse																							
				5SB2					5SB4				5SC2		5SD8												
				I _{cu} [kA]				50																			
				utilisation category				gG																			
				Frame size				DII					DIII				DIV		DIII								
Characteristic	I _{cu} [kA]	I _{cn} [kA]	I _n [A]	2	4	6	10	16	20	25	32	35	50	63	80	100	2	4	6	10	16	20	25	35	50	63	
				B	35	6	6				50	50	50	50	50	50	40	35	35	35							
25	10						50	50	50	50	50	40	35	35	30												
15	13							50	50	50	50	40	35	35	30												
	16								50	50	50	40	35	35	30												
C	10	6	2		50	50	50	50	50	50	50	40	25	25	20	15											
4							50	50	50	50	50	50	35	35	20	20											
6								50	50	50	50	50	35	35	35	30											
10									50	50	50	50	50	35	35	35	30										
13										50	50	50	50	40	35	35	30										
16											50	50	50	40	35	35	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}).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NEOZED-fuse 5SE2																		
				line protection																		
				utilisation category		gG																
				Icu [kA]		50																
				Frame size		D01					D02					D03						
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	13	16	20	25	32	35	40	50	63	80	100				
downstream miniature circuit breaker 5SY4	A / B / C / D	35	10	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2,5				50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		3					50	50	50	50	50	50	50	50	50	50	50	50	50	50		
		3,5						50	50	50	50	50	50	50	50	50	50	50	50	50		
		4							50	50	50	50	50	50	50	50	50	50	50	50		
		5								50	50	50	50	50	50	50	50	50	50	50		
		6									50	50	50	50	50	50	50	50	50	50		
		8										50	50	50	50	50	50	50	50	50		
	10											50	50	50	50	50	50	50	50			
	13												50	50	50	50	50	50	45			
	15													50	50	50	50	50	45			
	16														50	50	50	50	45			
	20															50	50	50	40			
	25																50	50	40			
	30																	50	45			
	32																		45			
	40																		45			
	45																		40			
	50																		40			
	60																		40			
63																		40				
downstream miniature circuit breaker 5SY6	B / C / D	30	6	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				3				50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		4					50	50	50	50	50	50	50	50	50	50	50	50	50	50		
		5						50	50	50	50	50	50	50	50	50	50	50	50	50		
		6							50	50	50	50	50	50	50	50	50	50	50	50		
		8								50	50	50	50	50	50	50	50	50	50	50		
		10									50	50	50	50	50	50	50	50	50	50		
		13										50	50	50	50	50	50	50	50	35		
	15											50	50	50	50	50	50	50	35			
	16												50	50	50	50	50	50	35			
	20													50	50	50	50	50	35			
	25														50	50	50	50	35			
	32															50	50	50	35			
	40																50	50	50			
	50																	50	50			
	63																		25			

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NEOZED-fuse 5SE2															
				line protection															
				utilisation category		gG													
				Icu [kA]		50													
				Frame size		D01						D02						D03	
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	13	16	20	25	32	35	40	50	63	80	100	
downstream miniature circuit breaker 5SY7	B / C / D	50	15	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
				0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
				1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		40	15	1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50
				2		50	50	50	50	50	50	50	50	50	50	50	50	50	50
				3			50	50	50	50	50	50	50	50	50	50	50	50	50
	25	15	4			50	50	50	50	50	50	50	50	50	50	50	50	50	
			6				50	50	50	50	50	50	50	50	50	50	50		
			8					50	50	50	50	50	50	50	50	50	50		
			10						50	50	50	50	50	50	50	50	50		
			13								50	50	50	50	50	50	50	45	
			16									50	50	50	50	50	50	50	45
	20 / 15	15	20										50	50	50	50	50	50	
			25											50	50	50	50	40	
			32													50	50	50	45
			40														50	50	45
downstream miniature circuit breaker 5SY8	C / D	n. a.	0,3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			0,5	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			1	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			2		50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			3			50	50	50	50	50	50	50	50	50	50	50	50	50	
			4				50	50	50	50	50	50	50	50	50	50	50	50	
			6					50	50	50	50	50	50	50	50	50	50	50	
			8						50	50	50	50	50	50	50	50	50	50	
			10							50	50	50	50	50	50	50	50	50	
			13									50	50	50	50	50	50	50	45
			16										50	50	50	50	50	50	45
			20											50	50	50	50	50	40
			25												50	50	50	50	40
			32													50	50	50	45
			40														50	50	45
50															50	40			
63																50	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 (Icu).

product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG
 Backup-Protection [kA]
 for 230/400 V AC
 acc. to IEC 60947-2
 Edition 06/2021

				upstream NEOZED-fuse 5SE2																	
				line protection																	
				utilisation category	gG																
				Icu [kA]	50																
				Frame size						D01						D02		D03			
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	13	16	20	25	32	35	40	50	63	80	100			
downstream miniature circuit breaker 5SL4	B	10	10	1	50	50	50	50	50	50	50	50	50	50	50	50	70	25			
				2		50	50	50	50	50	50	50	50	50	50	50	50	50	70	25	
				3			50	50	50	50	50	50	50	50	50	50	50	50	70	25	
				4				50	50	50	50	50	50	50	50	50	50	50	70	25	
				6					50	50	50	50	50	50	50	50	50	50	70	25	
				8						50	50	50	50	50	50	50	50	50	70	20	
				10							50	50	50	50	50	50	50	50	70	20	
				13								50	50	50	50	50	50	50	70	15	
				16									50	50	50	50	50	50	70	15	
				20										50	50	50	50	50	70	25	
				25											50	50	50	50	70	25	
				32												50	50	50	70	25	
				40													50	50	70	10	
				50														50	70	10	
				63															70	10	
				0,3				50	50	50	50	50	50	50	50	50	50	50	50	70	25
	0,5				50	50	50	50	50	50	50	50	50	50	50	50	70	25			
	1				50	50	50	50	50	50	50	50	50	50	50	50	70	25			
	1,6					50	50	50	50	50	50	50	50	50	50	50	70	25			
	2					50	50	50	50	50	50	50	50	50	50	50	70	25			
	3						50	50	50	50	50	50	50	50	50	50	70	25			
	4							50	50	50	50	50	50	50	50	50	70	25			
	6								50	50	50	50	50	50	50	50	25	25			
	8									50	50	50	50	50	50	50	25	20			
	10										50	50	50	50	50	50	10	10			
	13											50	50	50	50	50	15	15			
	16												50	50	50	50	70	25			
	20													50	50	50	70	25			
	25														50	50	70	25			
	32															50	70	25			
	40																70	10			
	50																70	10			
	63																70	10			
	downstream miniature circuit breaker 5SL6	B / C	6	6	0,3	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
					0,5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
					1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1,6						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
3							6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
4								6	6	6	6	6	6	6	6	6	6	6	6	6	6
6									6	6	6	6	6	6	6	6	6	6	6	6	6
8										6	6	6	6	6	6	6	6	6	6	6	6
10											6	6	6	6	6	6	6	6	6	6	6
13												6	6	6	6	6	6	6	6	6	6
16													6	6	6	6	6	6	6	6	6
20														6	6	6	6	6	6	6	6
25															6	6	6	6	6	6	6
32																6	6	6	6	6	6
40																	6	6	6	6	6
50																		6	6	6	6
63																			6	6	6

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).
 product characteristics and limit values within this table are exclusively valid for MCB-products without suffix inside product-order-number for ex. -CC, -CC1, -RC, -MB, -YA.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NEOZED-fuse 5SE2														
				line protection														
				utilisation category				gG										
				Icu [kA]				50										
				Frame size				D01				D02					D03	
Characteristic	Icu [kA]	Icn [kA]	In [A]	6				10					16					
				6	10	13	16	20	25	32	35	40	50	63	80	100		
downstream RCBO 5SU1, 1P+N / 2P	B / C	25	4,5 / 6	6	50	50	50	50	50	50	50	50	50	50	50	50	50	
				8		50	50	50	50	50	50	50	50	50	50	50	50	
				10			50	50	50	50	50	50	50	50	50	50	50	
				13				50	50	50	50	50	50	50	50	50	35	
				16					50	50	50	50	50	50	50	50	35	
				20						50	50	50	50	50	50	50	35	
		25								50	50	50	50	50	50	35		
		32										50	50	50	50	35		
		40											50	50	50	50		
		35		15	10	6	50	50	50	50	50	50	50	50	50	50	50	50
		8					50	50	50	50	50	50	50	50	50	50	50	
		10						50	50	50	50	50	50	50	50	50	50	
	13						50	50	50	50	50	50	50	50	50	45		
	16							50	50	50	50	50	50	50	50	45		
	20								50	50	50	50	50	50	50	40		
	25								50	50	50	50	50	50	40			
	32										50	50	50	50	45			
	40											50	50	50	45			

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 its short circuit rating (Icu).
product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream NEOZED-fuse 5SE2																
				line protection																
				utilisation category		gG														
				Icu [kA]		50														
				Frame size		D01					D02					D03				
Characteristic	Icu [kA]	Icn [kA]	In [A]	2	4	6	10	13	16	20	25	32	35	40	50	63	80	100		
				downstream RCBO 5SV1, 1P+N / 2P	B	35	6	6			50	50	50	50	50	50	50	50	40	35
25	10							50	50	50	50	50	50	50	40	35	35	30		
15	13									50	50	50	50	50	50	40	35	35	30	
	16									50	50	50	50	50	40	35	35	30		
C	10	6	2		50	50	50	50	50	50	50	50	40	30	25	25	20	15		
			4			50	50	50	50	50	50	50	50	50	40	35	35	20	20	
			6				50	50	50	50	50	50	50	50	50	50	35	35	35	30
			10						50	50	50	50	50	50	50	50	35	35	35	30
			13								50	50	50	50	50	50	40	35	35	30
	16										50	50	50	50	40	35	35	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 (Icu).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream main miniature circuit breaker 5SP3							
				Characteristic				line protection			
				E							
				Icn [kA]				25			
Characteristic	Icu [kA]	Icn [kA]	In [A]	16	20	25	35	40	50	63	
downstream miniature circuit breaker 5SY4	B / C	35	10	0,3	25	25	25	25	25	25	25
				0,5	25	25	25	25	25	25	25
				1	25	25	25	25	25	25	25
				1,6	25	25	25	25	25	25	25
				2	25	25	25	25	25	25	25
				2,5	25	25	25	25	25	25	25
				3	25	25	25	25	25	25	25
				3,5	25	25	25	25	25	25	25
				4	25	25	25	25	25	25	25
				5	25	25	25	25	25	25	25
	6	25	25	25	25	25	25	25			
	20	10	8	25	25	25	25	25	25	25	
			10	25	25	25	25	25	25	25	
			13		25	25	25	25	25	25	
			15			25	25	25	25	25	
			16			25	25	25	25	25	
			20				25	25	25	25	
			25					25	25	25	
			30						25	25	
			32							25	25
40										25	20
downstream miniature circuit breaker 5SY7	50	15	0,3	25	25	25	25	25	25	25	
			0,5	25	25	25	25	25	25	25	
			1	25	25	25	25	25	25	25	
			1,6	25	25	25	25	25	25	25	
	40	15	2	25	25	25	25	25	25	25	
			3	25	25	25	25	25	25	25	
			4	25	25	25	25	25	25	25	
			6	25	25	25	25	25	25	25	
	30	15	8	25	25	25	25	25	25	25	
			10	25	25	25	25	25	25	25	
			13		25	25	25	25	25	25	
			16			25	25	25	25	25	
	25	15	20				25	25	25	25	
			25					25	25	25	
			32						25	25	
			40							25	20

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).

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Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				upstream main miniature circuit breaker 5SP3									
				Characteristic				line protection					
				E				25					
				Icn [kA]				25					
downstream miniature circuit breaker 5SL4	Characteristic	Icu [kA]	Icn [kA]	In [A]	16	20	25	35	40	50	63		
	B	10	10	1	25	25	25	25	25	25	25	25	
				2	25	25	25	25	25	25	25	25	25
				3	25	25	25	25	25	25	25	25	25
4				25	25	25	25	25	25	25	25	25	
6				25	25	25	25	25	25	25	25	25	
8				20	20	20	20	20	20	20	20	20	
10				20	20	20	20	20	20	20	20	20	
13					15	15	15	15	15	15	15	15	
16						15	15	15	15	15	15	15	
20							20	20	20	20	20	20	
25								20	20	20	20	20	
32										20	20	20	
40												20	20
C	10	10	0,3	25	25	25	25	25	25	25	25		
			0,5	25	25	25	25	25	25	25	25		
			1	25	25	25	25	25	25	25	25		
			1,6	25	25	25	25	25	25	25	25		
			2	25	25	25	25	25	25	25	25		
			3	25	25	25	25	25	25	25	25		
			4	25	25	25	25	25	25	25	25		
			6	25	25	25	25	25	25	25	25		
			8	20	20	20	20	20	20	20	20		
			10	10	10	10	10	10	10	10	10		
			13		15	15	15	15	15	15	15		
			16			20	20	20	20	20	20		
			20				20	20	20	20	20		
25					20	20	20	20					
32							20	20					
40									20	20			
D	10	10	0,3	10	10	10	10	10	10	10	10		
			0,5	10	10	10	10	10	10	10	10		
			1	10	10	10	10	10	10	10	10		
			1,6	10	10	10	10	10	10	10	10		
			2	10	10	10	10	10	10	10	10		
			3	10	10	10	10	10	10	10	10		
			4	10	10	10	10	10	10	10	10		
			6	10	10	10	10	10	10	10	10		
			8	10	10	10	10	10	10	10	10		
			10	10	10	10	10	10	10	10	10		
			13		10	10	10	10	10	10	10		
			16			10	10	10	10	10	10		
			20				10	10	10	10	10		
25					10	10	10	10					
32							10	10					
40									10	10			

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 its short circuit rating (Icu).

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Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021				downstream miniature circuit breaker																																
				5SY4														5SY7																		
				Characteristic		B							C							B							C									
				I _{cn} [kA]		10							10							15							15									
I _{cu} [kA]		20			15			10	20			15			10	25				20			25				20									
Characteristic	I _{cu} [kA]	I _{cn} [kA]	I _n [A]	16	20	25	32	40	50	63	80	16	20	25	32	40	50	63	80	16	20	25	32	40	50	63	16	20	25	32	40	50	63			
				downstream RCBO 5SV1, 1P+N / 2P	B	15	6	13	20	20	20	15	15	15			20	20	20	15	15	15				25	25	25	20	20	20		25	25	25	20
16			20					20	15	15	15				20	20	15	15	15					25	25	20	20	20			25	25	20	20	20	
C	10	6	2		20	20	20	20	15	15	15	10	20	20	20	20	15	15	15	10	25	20	20	20	20	15	15	25	20	20	20	20	15	15		
			4		15	15	15	15	15	15	15	10	15	15	15	15	15	15	15	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
			6		20	20	20	20	15	15	15	10	20	20	20	20	15	15	15	10	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
			10		20	20	20	20	15	10	10	10	20	20	20	20	15	10	10	10	20	20	20	20	20	10	10	20	20	20	20	20	20	20	10	10
			13		20	20	20	20	15	10	10	10		20	20	20	15	10	10	10		20	20	20	20	10	10		20	20	20	20	10	10		
			16				20	20	15	10	10	10			20	20	15	10	10	10			20	20	20	10	10			20	20	20	10	10		

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}).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

Siemens AG Backup-Protection [kA] for 230/400 V AC acc. to IEC 60947-2 Edition 06/2021		downstream miniature circuit breaker																
		Characteristic		Icu [kA]		Icn [kA]		5SY8						5SP4				
								C						B			C	
		Icn [kA]		k. A.						10								
		Icu [kA]		30			25			10								
downstream RCBO 5SV1, 1P+N / 2P	B	15	6	In [A]	16	20	25	32	40	50	63	80	100	125	80	100	125	
					13	25	25	25	25	20	20							
	16				25	25	25	20	20									
	C <td rowspan="6">10 <td rowspan="6">6 <td>2</td> <td>25</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>15</td> <td>15</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </td></td>	10 <td rowspan="6">6 <td>2</td> <td>25</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>15</td> <td>15</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </td>	6 <td>2</td> <td>25</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>15</td> <td>15</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td>	2	25	20	20	20	20	15	15	10	10	10	10	10	10	10
				4	15	15	15	15	15	15	10	10	10	10	10	10	10	
				6	20	20	20	20	20	20	10	10	10	10	10	10	10	
				10	20	20	20	20	20	20	10	10	10	10	10	10	10	
				13	20	20	20	20	20	20	10	10	10	10	10	10	10	
				16				20	20	20	20	10	10	10	10	10	10	10

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).

product characteristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.