

The Siemens logo is displayed in a white rectangular box in the top left corner. The background of the entire page is an aerial view of a city and harbor, overlaid with a complex network of glowing blue and yellow lines representing power grids and data connections. A small world map icon is visible in the top right corner.

SIEMENS

Engineering

# Low Voltage Protection Devices

## Back-up Protection Tables

Edition

06/2021

[siemens.com/SIOS](https://www.siemens.com/SIOS)




## Legal information

### Qualified Personnel

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.

### Proper use of Siemens products

Note the following:

 <b>WARNING</b>
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

### Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

### Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/industrialsecurity>.

# table of contents

## Back-up- protection-tables - product lines with global marketing

<b>1</b>	<b>molded case circuit breaker <b>MCCB</b> -</b>
	in combination with molded case circuit breaker <b>MCCB</b>
1.10	3VA1 - 3VA1
	in combination with miniature circuit breaker <b>MCB</b>
1.20	3VA2 - 5SY
1.21	3VA2 - 5SL
1.22	3VA1 - 5SY
1.23	3VA1 - 5SL
1.24	3VA1 - 5SJ4...-HG
	in combination with residual current protective device <b>RCBO</b>
1.30	3VA2 - 5SU1
1.31	3VA1 - 5SU1
1.32	3VA2 - 5SV1
1.33	3VA1 - 5SV1
<b>2</b>	<b>in combination with fuse systems <b>FUSES</b> -</b>
	in combination with miniature circuit breaker <b>MCB</b>
2.10	3NA - 5SY
2.11	3NA - 5SL
	in combination with residual current protective device <b>RCBO</b>
2.12	3NA - 5SU1
2.13	3NA - 5SV1
<b>3</b>	<b>SITOR-fuse systems <b>FUSES</b> -</b>
	in combination with residual current protective device <b>RCBO</b>
3.10	3NE - 5SV1
<b>4</b>	<b>DIAZED-fuse systems <b>FUSES</b> -</b>
	in combination with miniature circuit breaker <b>MCB</b>
4.10	DIAZED- 5SY
4.11	DIAZED- 5SL
	in combination with residual current protective device <b>RCBO</b>
4.12	DIAZED- 5SU1
4.13	DIAZED- 5SV1

# table of contents

## Back-up- protection-tables - product lines with global marketing

### **5** NEOZED-fuse systems **FUSES** -

in combination with miniature circuit breaker **MCB**

5.10 NEOZED- 5SY

5.11 NEOZED- 5SL

in combination with residual current protective device **RCBO**

5.12 NEOZED- 5SU1

5.13 NEOZED- 5SV1

### **6** miniature circuit breaker **MCB** -

in combination with miniature circuit breaker **MCB**

6.10 5SP3 - 5SY

6.11 5SP3 - 5SL

in combination with residual current protective device **RCBO**

6.12 5SY/5SP4 - 5SV1

© Siemens AG 2021

Änderungen vorbehalten

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									
	I <sub>cu</sub> [kA]@400V	I <sub>cu</sub> [kA]@240V	I <sub>n</sub> [A]							16 / 25 / 36							25 / 36 / 55 / 70										36 / 55 / 70						
			I <sub>n</sub> [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	36	55	55	55	55	55	55	55	36	36	36										
						20	36	36	36	36	36	36	55	55	55	55	55	55	55	36	36	36											
						25			36	36	36	36			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	36					55	55	55	55	36	36	36							
						63							36	36	36						55	55	55	36	36	36							
						80																55	55	36	36	36							
						100																		55	36	36	36						
						125																			36	36	36						
		160																				36	36										
		6	36	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									
				32											55	55	55	55	55	55	55	55	55	55									
				40												55	55	55	55	55	55	55	55	55									
				50													55	55	55	55	55	55	55	55									
				63														55	55	55	55	55	55	55									
	80																	55	55	55	55	55	55										
	100																			55	55	55	55										
	125																				55	55	55										
	160																				55	55											
	55		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									
			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											

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		
				1	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	
				2	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	
				3	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	
				4	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	
				6	60	60	60	60	60	60	60	60	60	60	60	60	
		20	10	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	
				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	60	45		
				32			60	60		60	60	60	60	60	45		
		15	10	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		
		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		
				0,5	55	55	55	55	55	55	55	55	55	55		
				1	55	55	55	55	55	55	55	55	55	55		
				1,6	55	55	55	55	55	55	55	55	55	55		
				2	55	55	55	55	55	55	55	55	55	55		
				3	55	55	55	55	55	55	55	55	55	55		
				4	55	55	55	55	55	55	55	55	55	55		
				5	55	55	55	55	55	55	55	55	55	55		
				6	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
				10	55	55	55	55	55	55	55	55	55	55	55	
				13	55	55	55	55	55	55	55	55	55	55	55	
				15	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	
				32			55	55			55	55	55	55	40	
				10	6	40			35	35			35	35	35	25
		50						35				35	35	20	20	
		63						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		
				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	15	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		
				6	65	65	65	65	65	65	65	65	65	65	65		
		30	15	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	
		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	
				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	50	
		20	15	40			45	45			45	45	45	35	35		
				50				45				45	45	30	30		
				63				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	70	n. a.	0,3	70	70	70	70	70	70	70	70	70	70	70	
				0,5	70	70	70	70	70	70	70	70	70	70		
				1	70	70	70	70	70	70	70	70	70	70		
				1,6	70	70	70	70	70	70	70	70	70	70		
				2	70	70	70	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	
				8	65	65	65	65	65	65	65	65	65	65	65	
		40		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	
				20		65	65	65		65	65	65	65	50	50	
				25		65	65	65		65	65	65	65	50	50	
		30		32			65	65			65	65	65	65	65	50
				40				45	45			45	45	45	35	35
				50					45				45	45	30	30
				63					30				30	30	30	30
				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 charateristics 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  downstream miniature circuit breaker 5SL4				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	
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				15	15	15	15	15	15	15	15	15	15	15		
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		
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	
			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	15	15	15	15	15	15	15	15	15	15	15	15	
			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		

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 charateristics 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.

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																									
				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				
downstream miniature circuit breaker 5SY4	B	35	10	1	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	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	65	65	65	65	65	65	65	65	65	65	65	65	65	65			
				3	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	65	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	65				
		20	10	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			
				13		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			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	50	50	50	50			
				25					30	30	30	30					65	65	65	65	65	65	65	50	50	50	50			
				32						30	30	30						65	65	65	65	65	65	50	50	50	50			
	15	10	40								30	30	30						45	45	45	45	45	35	35	35				
			50										25	25						45	45	45	45	30	30	30				
			63										25									30	30	30	30					
	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 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				
downstream miniature circuit breaker 5SY4	C	35	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	
				2,5	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	
				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		
				3,5	35	35	35	35	35	35	35	35	35	35	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
				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	
		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			
		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	
				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		35	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	65	50	50	50	
		15	10	40								30	30	30						45	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		
				63										25	25										30	30	30	30		
		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 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				
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	35	35	35			
				4	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	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	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			
	20						25	25	25	25	25	25				60	40	40	40	40	40	25	25	25	25	25				
	10	6	25					25	25	25	25	25	25					40	40	40	40	40	25	25	25	25	25			
			32						25	25	25	25	25						40	40	40	40	25	25	25	25	25			
			40								25	25	25	25						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																										
				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				
downstream miniature circuit breaker 5SY6	C	30	6	0,3	30	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	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45		
				1	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45		
				1,6	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45		
				2	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45		
				3	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45		
				4	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45			
		5	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45				
		6	30	30	30	30	30	30	30	30	60	60	60	60	45	45	45	45	45	45	45	45	45	45	45	45				
		15	6	8	25	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	25	60	60	60	60	40	40	40	40	40	30	30	30	30			
				13		25	25	25	25	25	25	25		60	60	60	40	40	40	40	40	30	30	30	30	30				
				15			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	60	40	40	40	40	40	30	30	30	30	30				
	20						25	25	25	25	25				60	40	40	40	40	40	30	30	30	30	30					
	25							25	25	25	25					40	40	40	40	40	30	30	30	30	30					
	10	6	32						25	25	25	25						40	40	40	40	30	30	30	30	30				
			40							20	20	20							25	25	25	25	25	25	25					
			50								15	15								25	25	25	25	20	20	20				
			63									15										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																												
					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							
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						
		30	15	10	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	13		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			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	70	70	70						
				25					35	35	35	35	35					70	70	70	70	70	70	70	70	70	70						
				32						35	35	35	35	35					70	70	70	70	70	70	70	70	70						
		20	15	40							35	35	35							50	50	50	50	50	40	40	40						
				50									30	30							50	50	50	50	35	35	35						
				63									30										35	35	35	35	35						
	C	50	15	0,3	50	50	50	50	50	50	50	50	50	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	70	70	70	70	70	70	70	70	70	70	70	70	70						
				1	50	50	50	50	50	50	50	50	50	50	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	70	70	70	70	70	70	70	70	70	70	70	70	70						
				2	50	50	50	50	50	50	50	50	50	50	70	70	70	70	70	70	70	70	70	70	70	70	70						
		40	15	3	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70	70						
				4	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70							
				6	40	40	40	40	40	40	40	40	40	70	70	70	70	70	70	70	70	70	70	70	70	70							
		30	15	8	35	35	35	35	35	35	35	35	35	70	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							
		25	15	13		35	35	35	35	35	35	35	35	35		70	70	70	70	70	70	70	70	70	70	70	70						
				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	70	70							
				25					35	35	35	35	35					70	70	70	70	70	70	70	70	70							
				32						35	35	35	35	35					70	70	70	70	70	70	70	70	70						
		20	15	40								35	35	35						50	50	50	50	50	40	40	40						
				50									30	30							50	50	50	50	35	35	35						
				63									30										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																										
				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				
downstream miniature circuit breaker 5SY8	C	70	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			
				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		
				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	
				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	
		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		
		3		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		
		4		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		
		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		
		8		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		
		10		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		
	13			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			70	70	70	70	70	70	70	70	70	70	70	70	70	70	70			
	20					35	35	35	35	35				70	70	70	70	70	70	70	70	70	70	55	55	55	55			
	25						35	35	35	35					70	70	70	70	70	70	70	70	70	55	55	55	55			
	32							35	35	35	35						70	70	70	70	70	70	70	55	55	55	55			
	40									35	35	35							50	50	50	50	50	40	40	40	40			
	50										35	35								50	50	50	50	35	35	35	35			
	63											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 charateristics 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																											
				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						
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				
				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				
				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				
				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				
				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				
				10	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	25						50	50	50	50	50	50	50	50	45	45	45			
				40							25	25	25							40	40	40	40	40	40	40	30	30	30			
				50								20	20								35	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	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				
				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				
				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				
				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				
				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				
				4	30	30	30	30	30	30	30	30	30	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				
				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				
				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	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	25						50	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				

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 charateristics 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.

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  downstream RCBO 5SU1, 1P+N / 2P					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																	
Characteristic					In [A]	25	40	63	100	25	40	63	100	160	160	250							
B					Icu [kA]	Icn [kA]	6	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					
							6	60	60	60	60	60	60	60	60	60	60						
							10	60	60	60	60	60	60	60	60	60	60	60					
							13	60	60	60	60	60	60	60	60	60	60	60					
							16	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					
							32			60	60			60	60	60	60	45					
							40			40	40			40	40	40	30	30					
C					Icu [kA]	Icn [kA]	6	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	
												6	60	60	60	60	60	60	60	60	60	60	60
												8	60	60	60	60	60	60	60	60	60	60	60
												10	60	60	60	60	60	60	60	60	60	60	60
												13	60	60	60	60	60	60	60	60	60	60	60
												16	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
							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 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					I <sub>n</sub> [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					25	6	6	25	25	25	25	25	25	25	25	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
							10	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		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	25		
							32						20	20	20	20					25	25	25	25	25	25	25	25	25	25	25		
					10	40							15	15	15								20	20	20	20	20	20	20	20	20		
						20	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	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		
								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	65	65								
15	40	32							30	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								
		C	25	4,5 / 6	6	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	25	25	25	25	25	25	25	25	25	25	25	25	25	25					
					10	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					
					16			20	20	20	20	20	20	20			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								20	20	20	20	20				25	25	25	25	25	25	25	25	25	25	25							
10	10	32							20	20	20	20					25	25	25	25	25	25	25	25	25	25							
		40								15	15	15					20	20	20	20	20	20	20	20	20								
		15	20	10	6	35	35	35	35	35	35	35	35	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						
					10	30	30	30	30	30	30	30	30	30	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						
					16			30	30	30	30	30	30	30			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								
25								30	30	30	30	30				65	65	65	65	65	65	65	65	65	65								
15	40	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 it's short circuit rating (I <sub>cu</sub> ).  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		
		25		10	25	25	25	25	25	25	25	25					
		15		13	15	15	15	15	15	15	15	15	15				
				16	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		
				4	10	10	10	10	10	10	10	10	10	10			
				6	25	25	25	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	10		
				16	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 charateristics 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						
downstream RCBO 5SV1, 1P+N / 2P	B	35	6	6	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35						
		25		10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25							
		15		13		25	25	25	20	20	20	20	20		25	25	25	20	20	20	20	20	20	20	20	15	15	15					
				16			25	25	20	20	20	20	20			25	25	20	20	20	20	20	20	20	20	15	15	15					
	C	10	6	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					
				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					
				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					
				10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	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						
				16			20	20	10	10	10	10	10			25	25	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 charateristics 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																																
				120																																
				gG																																
				400 / 500 / 690																																
				000 / 00 / 0 / 1 / 2 / 3 / 4 / 4a																																
downstream miniature circuit breaker 5SL4	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	
				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	70	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	70	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	50	70	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
				13						50	50	50	50	50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
				16							50	50	50	50	50	50	50	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
				20								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									50	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	50	50	70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
				40											50	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	
	C	10	10	0,3	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		
				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	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	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	

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 <sub>n</sub> 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			
				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	
				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	
				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	
				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	
				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	
				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	
				6				50	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	
				8					50	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	
				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	
				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	
				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
				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										50	50	50	50	70	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
				40														50	70	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				
63																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		
				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	
				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	
				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	
				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	
				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	
				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	
				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	
				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
				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
				20									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
				32											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
50														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				

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

	Characteristic	Icu [kA]	Icn [kA]	In [A]	10	16	20	25	32	35	40	50	63	80	100	125	160	
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	35	
				8		50	50	50	50	50	50	50	50	50	50	35		
		15		10		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	35	30	30	
				20					50	50	50	50	50	50	35	25	25	
				25						50	50	50	50	50	35	30	25	
				32							50	50	50	50	35	30	25	
				40								50	50	50	50	25	15	
				10	40									50	50	50	25	15
	20	35	10	6	50	50	50	50	50	50	50	50	50	50	50	45	45	
				8		50	50	50	50	50	50	50	50	50	50	45	45	
		20		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	45	40	35	
				20					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	
				15										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

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	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	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				
					U <sub>n</sub> fuse [V]								690				
					Frame size								00				
Characteristic	Icu [kA]	Icn [kA]	In [A]	25	35	50	63	80	100	125	20	35	40	63	80		
downstream RCBO 5SV1, 1P+N / 2P	B	35	6	6	100	100	100	100	100	100	100	100	100	100	100	100	
		25		10	100	100	100	100	100	100	100	100	100	100			
		15		13	100	100	100	100	100	100	100	100	100	100			
				16	100	100	100	100	100	100	100	100	100	100			
	C	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		
				10	100	100	100	100	100	100	100	100	100	100	100		
				13	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 charateristics 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 5SY4				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		
A / B / C / D	35	10	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	50	
			1,6		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	
			2,5		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	
			3,5			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	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		
	15									50	50	50	50	50	50	45		
	16										50	50	50	50	50	45		
	20											50	50	50	50	40		
	25													50	50	40		
	30														50	45		
	32														50	45		
	40															50	45	
	45																50	
	50																50	
	60																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	
				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	50
		8						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	
		15								50	50	50	50	50	50	50	50	35	
		16									50	50	50	50	50	50	50	35	
		20										50	50	50	50	50	50	35	
		25												50	50	50	50	35	
		32													50	50	50	35	
		10		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 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	15	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	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		
		13								50	50	50	50	50	50	45		
		16									50	50	50	50	50	45		
		20										50	50	50	50	40		
		25												50	50	40		
		32													50	45		
		40														50	45	
		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			
				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	50	
				1,6		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		
		3				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	40		
		32													50	50	45		
		40														50	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 charateristics 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										
downstream miniature circuit breaker 5SY4	Characteristic	Icu [kA]	Icn [kA]	In [A]	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	
				0,5	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	
				1,6		50	50	50	50	50	50	50	50	50	
				2		50	50	50	50	50	50	50	50	50	
				2,5		50	50	50	50	50	50	50	50	50	
				3			50	50	50	50	50	50	50	50	
				3,5			50	50	50	50	50	50	50	50	
				4			50	50	50	50	50	50	50	50	
				5				50	50	50	50	50	50	50	
	20	6					50	50	50	50	50	50	50		
		8						50	50	50	50	50	50		
		10						50	50	50	50	50	50		
		13							50	50	50	50	50		
		15								50	50	50	50		
		16								50	50	50	50		
		20									50	50	50		
		25										50	50		
		30											50	50	
		32											50	50	
	15	40												50	
		45													
		50													
		60													
		63													

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
downstream miniature circuit breaker 5SY6	B / C / D	30	6	0,3	50	50	50	50	50	50	50	50	50	50
				0,5	50	50	50	50	50	50	50	50	50	50
				1	50	50	50	50	50	50	50	50	50	50
				1,6		50	50	50	50	50	50	50	50	50
				2		50	50	50	50	50	50	50	50	50
				3			50	50	50	50	50	50	50	50
				4			50	50	50	50	50	50	50	50
				5				50	50	50	50	50	50	50
				6				50	50	50	50	50	50	50
		8						50	50	50	50	50	50	
		10						50	50	50	50	50	50	
		13							50	50	50	50	50	
		15								50	50	50	50	
		16								50	50	50	50	
		20									50	50	50	
		25										50	50	
		32											50	50
		40												50
		50												
		63												

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										
downstream miniature circuit breaker 5SY7	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	
				0,5	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	
				1,6		50	50	50	50	50	50	50	50	50	
				2		50	50	50	50	50	50	50	50	50	
		3				50	50	50	50	50	50	50	50		
		4				50	50	50	50	50	50	50	50		
		6					50	50	50	50	50	50	50		
		8						50	50	50	50	50	50		
		10						50	50	50	50	50	50		
		13							50	50	50	50	50		
		16								50	50	50	50		
		20									50	50	50		
		25										50	50		
		32											50	50	
		40												50	
		50													
		63													



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										
downstream miniature circuit breaker 5SY8	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	
				0,5	50	50	50	50	50	50	50	50	50	50	
				1	50	50	50	50	50	50	50	50	50	50	
				1,6		50	50	50	50	50	50	50	50	50	
				2		50	50	50	50	50	50	50	50	50	
		3				50	50	50	50	50	50	50	50		
		4				50	50	50	50	50	50	50	50		
		6					50	50	50	50	50	50	50		
		8						50	50	50	50	50	50		
		10						50	50	50	50	50	50		
		13							50	50	50	50	50		
		16								50	50	50	50		
		20									50	50	50		
		25										50	50		
		32											50		
		40											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 charateristics 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											
					Icu [kA]				50																	
					utilisation category				gG																	
					Frame size				DII				DIII				DIV		DIII							
Characteristic	Icu [kA]	Icn [kA]	In [A]	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					
				8		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				
				13			50	50	50	50	50	50	50	50	35			50	50	50	50	50				
				16				50	50	50	50	50	50	50	35				50	50	50	50				
				20					50	50	50	50	50	50	35					50	50	50				
				25							50	50	50	50	35						50	50				
				32								50	50	50	35						50	50				
				40									50	50	50							50				
	B / C	15	4,5 / 6	6	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					
				10		50	50	50	50	50	50	50	50	50	50		50	50	50	50	50					
				13			50	50	50	50	50	50	50	50	45			50	50	50	50	50				
				16				50	50	50	50	50	50	50	45				50	50	50	50				
				20					50	50	50	50	50	50	40					50	50	50				
				25							50	50	50	50	40						50	50				
				32								50	50	50	45						50	50				
				40									50	50	45							50				
	B / C	10	10	6	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					
				10		50	50	50	50	50	50	50	50	50	50		50	50	50	50	50					
				13			50	50	50	50	50	50	50	50	45			50	50	50	50	50				
				16				50	50	50	50	50	50	50	45				50	50	50	50				
				20					50	50	50	50	50	50	40					50	50	50				
				25							50	50	50	50	40						50	50				
				32								50	50	50	45						50	50				
				40									50	50	45							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 (Icu).

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

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 charateristics 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													
					Icu [kA]				50																							
					utilisation category				gG																							
					Frame size				DII								DIII				DIV		DIII									
					In [A]	2	4	6	10	16	20	25	32	35	50	63	80	100	2	4	6	10	16	20	25	35	50	63				
downstream RCBO 5SV1, 1P+N / 2P	B	35	6	6	50								50	50	50	50	50	50	40	35	35	35										
		25		10	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	50	40	35	35	30											
	C	10	6	2	50	50	50	50	50	50	50	50	40	25	25	20	15															
				4	50	50	50	50	50	50	50	35	35	20	20																	
				6	50	50	50	50	50	50	35	35	35	30																		
				10	50	50	50	50	50	35	35	35	30																			
				13	50	50	50	50	35	35	30																					
				16	50	50	50	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 charateristics 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	
				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		
		20	10	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	45	
				15									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	50	40	
				30													50	50	50	45	
				32														50	50	45	
		15	10	40															50	45	
				45																50	40
				50																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	
				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	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
		15	6	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
				15									50	50	50	50	50	50	50	50	35
				16										50	50	50	50	50	50	50	35
				20											50	50	50	50	50	50	35
				25												50	50	50	50	50	35
				32														50	50	50	35
				40															50	50	50
		10	6	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	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
				1,6		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		40	15	2		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
				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
		30	15	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	45
				16								50	50	50	50	50	50	50	50	45
	25	15	20									50	50	50	50	50	50	50	40	
			25											50	50	50	50	50	40	
			32												50	50	50	50	45	
			40													50	50	50	45	
	20 / 15	15	50														50	50	40	
			63															50	40	
															50	40				
															50	40				
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	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
			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	50
			6				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
			10						50	50	50	50	50	50	50	50	50	50	50	50
			13							50	50	50	50	50	50	50	50	50	50	45
			16								50	50	50	50	50	50	50	50	50	45
			20									50	50	50	50	50	50	50	50	40
			25										50	50	50	50	50	50	50	40
			32												50	50	50	50	50	45
			40													50	50	50	50	45
			50														50	50	50	40
			63															50	40	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 charateristics 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													
Characteristic	Icu [kA]	Icn [kA]	Frame size	D01						D02						D03			
				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	70	25
				3			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	25
				50													50	70	10
				63														70	10
	C	10	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	50	70	25
				1	50	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	50	70	25
				2		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	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	25	25
				8					50	50	50	50	50	50	50	50	50	25	20
				10						50	50	50	50	50	50	50	50	10	10
				13							50	50	50	50	50	50	50	15	15
				16								50	50	50	50	50	50	70	25
				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
	D	10	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	50	70	25
				1	50	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	50	70	25
				2		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	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	25	25
				8					50	50	50	50	50	50	50	50	50	25	20
				10						50	50	50	50	50	50	50	50	10	10
				13							50	50	50	50	50	50	50	15	15
				16								50	50	50	50	50	50	70	25
				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
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
				1	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
				2		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
				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
				8					6	6	6	6	6	6	6	6	6	6	6
				10						6	6	6	6	6	6	6	6	6	6
				13							6	6	6	6	6	6	6	6	6
				16								6	6	6	6	6	6	6	6
				20									6	6	6	6	6	6	6
				25										6	6	6	6	6	6
				32											6	6	6	6	6
				40												6	6	6	6
				50													6	6	6
				63														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				
Characteristic	Icu [kA]	Icn [kA]	In [A]	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			
				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			
				16						50	50	50	50	50	50	35			
				20							50	50	50	50	50	35			
				25								50	50	50	35				
				32									50	50	35				
				40										50	50	50			
	20	10	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				
			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	40					
			32									50	50	45					
			40										50	50	45				
		15	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			
				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	40				
				32									50	50	45				
				40										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 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.

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 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	40	35	35	35	
		25		50						50	50	50	50	50	40	35	35	30		
		15		13							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	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	50	35	35	35	30			
				13	50	50	50	50	50	50	50	50	40	35	35	30				
				16	50	50	50	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 charateristics 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							
					line protection							
					Characteristic	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								
downstream miniature circuit breaker 5SY7	B / C	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	
				2	25	25	25	25	25	25	25	
		40	15	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	
		25	15	13		25	25	25	25	25	25	
				16			25	25	25	25	25	
				20				25	25	25	25	
				25					25	25	25	
				32							25	25
		20	15	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 charateristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.

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						
				In [A]	16	20	25	35	40	50	63
downstream miniature circuit breaker 5SL4	B	10	10	1	25	25	25	25	25	25	25
				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
				8	20	20	20	20	20	20	20
				10	20	20	20	20	20	20	20
				13		15	15	15	15	15	15
				16			15	15	15	15	15
				20				20	20	20	20
				25					20	20	20
				32						20	20
				40							10
	C	10	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
				3	25	25	25	25	25	25	25
				4	25	25	25	25	25	25	25
				6	25	25	25	25	25	25	25
				8	20	20	20	20	20	20	20
				10	10	10	10	10	10	10	10
				13		15	15	15	15	15	15
				16			20	20	20	20	20
				20				20	20	20	20
				25					20	20	20
				32						20	20
				40							10
	D	10	10	0,3	10	10	10	10	10	10	10
				0,5	10	10	10	10	10	10	10
				1	10	10	10	10	10	10	10
				1,6	10	10	10	10	10	10	10
				2	10	10	10	10	10	10	10
				3	10	10	10	10	10	10	10
				4	10	10	10	10	10	10	10
				6	10	10	10	10	10	10	10
				8	10	10	10	10	10	10	10
				10	10	10	10	10	10	10	10
				13		10	10	10	10	10	10
				16			10	10	10	10	10
				20				10	10	10	10
				25					10	10	10
				32						10	10
				40							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).

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				downstream miniature circuit breaker																																
				5SY4																5SY7																
				Characteristic	B								C								B						C									
				Icn [kA]	10								10								15						15									
				Icu [kA]	20				15				10	20				15				10	25				20				25				20	
downstream RCBO 5SV1, 1P+N / 2P	Characteristic	Icu [kA]	Icn [kA]	In [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		
	B	15	6	13	20	20	20	15	15	15			20	20	20	20	15	15	15			25	25	25	20	20	20		25	25	25	20	20	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	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	15	10	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	10	10	10	
				13		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	10	
16						20	20	15	10	10	10			20	20	15	10	10	10			20	20	20	10	10			20	20	20	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				downstream miniature circuit breaker														
				Characteristic	5SY8								5SP4					
					C								B			C		
					Icn [kA]								10					
					Icu [kA]								10					
downstream RCBO 5SV1, 1P+N / 2P	Characteristic	Icu [kA]	Icn [kA]	I <sub>n</sub> [A]	16	20	25	32	40	50	63	80	100	125	80	100	125	
	B	15	6	13	25								25					
				16	25								25					
				2	25	20	20	20	20	15	15	10	10	10	10	10		
				4	15	15	15	15	15	15	15	10	10	10	10	10		
				6	20	20	20	20	20	20	20	10	10	10	10	10		
				10	20	20	20	20	20	20	20	10	10	10	10	10		
				13	20		20	20	20	20	20	10	10	10	10	10	10	
	16	20			20	20	20	20	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 charateristics and limit values within this table are exclusively valid for RCBO-products without suffix inside product-order-number for ex. -FP, -FR, -FN.														