

Coordination tables

Coordination tables

with

Tmax and S200 Compact

ABB

Coordination tables with Tmax and S200 Compact Index

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Coordination tables

Back-up

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Back-up

Notes for use

Back-up protection

The tables given provide the value (in kA, referring to the breaking capacity according to the IEC 60947-2 Standard) for which the back-up protection among the combination of selected circuit-breakers is verified. The tables cover the possible combinations between ABB SACE Tmax and Isomax series of moulded-case circuit-breakers and those between the above-mentioned circuit-breakers and the ABB series of modular circuit-breakers.

The values indicated in the tables refer to the voltage:

- Vn of 230/240 V AC for coordination with modular S9 circuit-breakers
- Vn of 400/415 V AC for all the other coordinations.

Note

The following tables give the breaking capacities at 415 V AC for circuit-breakers SACE Isomax and Tmax.

Tmax @ 415 V AC	
Version	Icu [kA]
B	16
C	25
N	36
S	50
H	70
L (T2)	85
L (T4, T5)	120
V	200

Isomax @ 415 V AC	
Version	Icu [kA]
N	35*
S	50
H	65
L	100

* Versions certified at 36 kA

Caption

MCB = miniature circuit-breakers (S9, S2, S500)

MCCB = moulded-case circuit-breakers (Tmax, Isomax)

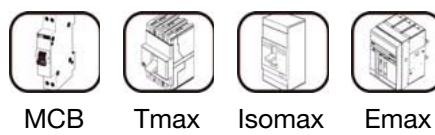
For moulded-case or air circuit-breakers:

- TM = thermomagnetic release
 - TMD (Tmax)
 - TMA (Tmax)
 - T adjustable M adjustable (Isomax)M = magnetic only release
 - MF (Tmax)
 - MA (Tmax)EL = electronic release
 - PR211/P - PR212/P (Isomax)
 - PR221DS - PR222DS (Tmax)

For miniature circuit-breakers:

- B = trip characteristic ($I_m=3...5I_n$)
C = trip characteristic ($I_m=5...10I_n$)
D = trip characteristic ($I_m=10...20I_n$)
K = trip characteristic ($I_m=8...14I_n$)
Z = trip characteristic ($I_m=2...3I_n$)

Caption of symbols



For solutions not shown in these tables, please consult the website:

<http://bol.it.abb.com>

or contact ABB SACE

Back-up

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - MCB @ 240 V (Two-pole circuit-breakers)

Load s.	Char.	Supply s.	S 200L	S200	S200M	S200P		S 280	S 290	S 500
		I _{cu} [kA]	C	B-C	B-C	B-C	B-C	B-C	C	B-C
			I _n [A]	10	20	25	40	25	20	100
S931 N	C	4,5	2..40	10	20	25	40	25	15	15
S941 N	B,C	6	2..40	10	20	25	40	25	15	15
S951 N	B,C	10	2..40	10	20	25	40	25	15	15
S971 N	B,C	10	2..40	10	20	25	40	25	15	15
S200L	C	10	6..40		20	25	40	25	15	15
S200	B,C,K,Z	20	0.5..63			25	40	25		100
S200M	B,C,D	25	0.5..63				40			100
S200P	B, C, D, K, Z	40	0.5..25							100
		25	32..63							100
S280	B,C	20	80, 100							
S290	C,D	25	80..125							
S500	B,C,D	100	6..63							



Back-up

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

MCCB @ 415 V - MCB @ 240 V

			Supply s.*	T1	T1	T1	T2	T3	T2	T3	T2	T2	
			Version	B	C	N			S			H	L
Load s.	Char.	I _n [A]	I _{cu} [kA]	16	25	36			50			70	85
S931 N	C	2..25	4,5	16	16	16	20	10	20	10	20	20	
		32, 40		10	10	10	16		16		16	16	
S941 N	B,C	2..25	6	16	16	16	20	10	20	10	20	20	
		32, 40		10	10	10	16		16		16	16	
S951 N	B,C	2..25	10	16	16	16	25	16	25	16	25	25	
		32, 40							16		16	16	
S971 N	B,C	2..25	10	16	16	16	25	16	25	16	25	25	
		32, 40					16		16		16	16	

* Supply side circuit-breaker 4P (load side circuit branched between one phase and the neutral)



Back-up

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - MCB @ 415 V

Load s.	Char.	Supply s.	S 200L	S200	S200M	S200P		S 280	S 290	S 500
		I _{cu} [kA]	C	B-C	B-C	B-C	B-C	B-C	C	B-C
			6	10	15	25	15	6	15	50
S200L	C	6	6..40		10	15	25	15	15	50
S200	B,C,K,Z	10	0.5..63			15	25	15	15	50
S200M	B,C,D	15	0.5..63				25			50
S200P	B, C,	25	0.5..25							50
	D, K, Z	15	32..63							
S280	B,C	6	80, 100							
S290	C,D	15	80..125							
S500	B,C,D	50	6..63							



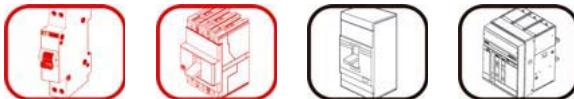
Back-up

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

MCCB - MCB @ 415 V

			Supply s.	T1	T1	T1	T2	T3	T4	T2	T3	T4	T2	T4	T2	T4	T4	T4
Load s.	Char.	I _n [A]	Version	B	C	N				S				H		L	L	V
			I _{cu} [kA]	16	25	36				50				70		85	120	200
S200L	C	6..10	6	16	25	30	36	36	36	36	40	40	40	40	40	40	40	
		13..40				16	16	16	16	16	16	40	40	40	40	40	40	40
S200	B,C,K,Z	0.5..10	10	16	25	30	36	36	36	36	40	40	40	40	40	40	40	
		13..63				16	16	16	16	16	16	40	40	40	40	40	40	40
S200M	B,C,D	0.5..10	15	16	25	30	36	36	36	36	40	40	40	40	40	40	40	
		13..63				16	16	16	16	16	25	25	25	25	25	25	25	25
S200P	B, C, D, K, Z	0.5..10	25	16	25	30	36	36	36	36	50	40	40	40	40	40	40	
		13..25				16	16	16	16	16	50	30	30	30	30	30	30	30
S280	B,C	80, 100	6	16	16	16	36	16	30	36	16	30	36	30	36	30	30	30
S290	C,D	80..125	15	16	25	30	36	30	30	50	30	30	70	30	85	30	30	
S500	B,C,D	6..63	50											70	70	85	120	200



Coordination tables

Discrimination

Notes for use.....	2/2
MCB - MCB (240 V)	2/4
MCCB - MCB (240 V)	2/6
MCB - MCB (415 V)	
MCB - S200L	2/8
MCB - S200	2/9
MCB - S200M	2/11
MCB - S200P	2/12
MCB - S500	2/14
MCCB - MCB	
T1 - MCB	2/15
T2 - MCB	2/22
T3 - MCB	2/29
T4 - MCB	2/36

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Discrimination

Notes for use

Selective protection

The tables given provide the value (in kA, referring to the breaking capacity according to the IEC 60947-2 Standard) for which the selective protection is verified among the combination of selected circuit-breakers. The tables cover the possible combinations between ABB SACE Tmax and Isomax series of moulded-case circuit-breakers and the ABB series of miniature circuit-breakers.

The values in the table represent the maximum value obtainable of discrimination between supply side circuit-breaker and load side circuit-breaker referring to the voltage:

- Vn of 230/240 V AC for the S9 circuit-breakers and Vn of 400/415 V AC for the supply side circuit-breakers in the coordination between MCB with the modular S9 circuit-breakers.
- Vn of 400/415 V AC for all the other coordinations.

These values are obtained following particular specifications which, when not respected, could give discrimination values which are in some cases much lower than what is indicated. Some of these are generally valid and are given below, others referring exclusively to particular types of circuit-breakers will be the subject of a note under the relative table.

General prescriptions

- Function I of the electronic releases of the supply side circuit-breakers must be excluded (I_3 in OFF);
- The magnetic trip of thermomagnetic (TM) or magnetic only (M) circuit-breakers placed on the supply side must be $B 10 \times I_n$ and regulated to the maximum threshold;
- It is of prime importance to check that the settings made by the user for the electronic and thermomagnetic relays of circuit-breakers placed both on the load and supply side do not create intersections on the time-current curves.

Discrimination

Notes for use

Note

The letter T indicates total discrimination for the selected combination; the corresponding value in kA is obtained by considering the lowest between the breaking capacities (I_{cu}) of the circuit-breaker on the load side and the circuit-breaker on the supply side.

The following tables give the breaking capacities at 415 V AC for SACE Isomax and Tmax circuit-breakers.

Tmax @ 415 V AC	
Version	I_{cu} [kA]
B	16
C	25
N	36
S	50
H	70
L (T2)	85
L (T4, T5)	120
V	200

Isomax @ 415 V AC	
Version	I_{cu} [kA]
N	35*
S	50
H	65
L	100

* Versions certified at 36 kA

cu

Caption

MCB = miniature circuit-breakers (S9, S2, S500)

MCCB = moulded-case circuit-breakers (Tmax, Isomax)

ACB = air circuit-breakers (Emax)

For moulded-case or air circuit-breakers:

TM = thermomagnetic release

– TMD (Tmax)

– TMA (Tmax)

– T adjustable M adjustable (Isomax)

M = magnetic only release

– MF (Tmax)

– MA (Tmax)

EL = electronic release

– PR121/P - PR122/P - PR123/P (Emax)

– PR211/P - PR212/P (Isomax)

– PR221DS - PR222DS (Tmax)

For miniature circuit-breakers:

B = trip characteristic ($I_m=3...5I_n$)

C = trip characteristic ($I_m=5...10I_n$)

D = trip characteristic ($I_m=10...20I_n$)

K = trip characteristic ($I_m=8...14I_n$)

Z = trip characteristic ($I_m=2...3I_n$)

Caption of symbols



MCB

Tmax

Isomax

Emax

For solutions not shown in these tables, please consult the website:

<http://bol.it.abb.com>

or contact ABB SACE

Discrimination

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - S9 @ 230/240 V

Char.	I _{cu} [kA]	Supply s.**	S290					S500							
			C		D			B							
			15					50							
Load s.*	I _n [A]		80	100	125	80	100	16	20	25	32	40	50	63	
S931N	B-C	4.5	2	T	T	T	T	0.1	0.15	0.2	0.3	0.4	0.5	0.6	
			4	T	T	T	T		0.06	0.15	0.25	0.3	0.4	0.5	
			6	T	T	T	T			0.075	0.2	0.25	0.3	0.4	
			10	4	T	T	T				0.15	0.2	0.25	0.3	
			16	2.5	3.5	3.5	4	T						0.3	
			20	1.5	2.5	2.5	3	T						0.3	
			25	0.5	0.5	1.5	2	4						0.3	
			32	0.5	0.5	0.5	1.5	3.5							
			40	0.5	0.5	0.5	1.5	3.5							
S941N	B-C	6	2	T	T	T	T	0.1	0.15	0.2	0.3	0.4	0.5	0.6	
			4	5	T	T	T			0.15	0.25	0.3	0.4	0.5	
			6	4.5	5	T	5.5	T			0.2	0.25	0.3	0.4	
			10	4	4.5	5	5	5			0.15	0.2	0.25	0.3	
			16	2.5	3.5	3.5	4	4.5						0.3	
			20	1.5	2.5	2.5	3	4.5						0.3	
			25	0.5	0.5	1.5	2	4						0.3	
			32	0.5	0.5	0.5	1.5	3.5							
			40	0.5	0.5	0.5	1.5	3.5							
S951N	B-C	10	2	6	8	9	7	8	0.1	0.15	0.2	0.3	0.4	0.5	0.6
			4	5	6	7.5	6	7		0.15	0.25	0.3	0.4	0.5	
			6	4.5	5	6	5.5	6			0.2	0.25	0.3	0.4	
			10	4	4.5	5	5	5			0.15	0.2	0.25	0.3	
			16	2.5	3.5	3.5	4	4.5						0.3	
			20	1.5	2.5	2.5	3	4.5						0.3	
			25	0.5	0.5	1.5	2	4						0.3	
			32	0.5	0.5	0.5	1.5	3.5							
			40	0.5	0.5	0.5	1.5	3.5							
S971N	B-C	10	2	6	8	9	7	8	0.1	0.15	0.2	0.3	0.4	0.5	0.6
			4	5	6	7.5	6	7		0.15	0.25	0.3	0.4	0.5	
			6	4.5	5	6	5.5	6			0.2	0.25	0.3	0.4	
			10	4	4.5	5	5	5			0.15	0.2	0.25	0.3	
			16	2.5	3.5	3.5	4	4.5						0.3	
			20	1.5	2.5	2.5	3	4.5						0.3	
			25	0.5	0.5	1.5	2	4						0.3	
			32	0.5	0.5	0.5	1.5	3.5							
			40	0.5	0.5	0.5	1.5	3.5							

* Load side circuit-breaker 1P+N (230/240 V)

** For networks with 230/240 V AC -> two-pole circuit-breaker (phase + neutral)

for networks at 400/415 V AC -> four-pole circuit-breaker (load side circuit branched between one phase and the neutral)



	S500									S500								
	C									D								
	50									50								
	10	13	16	20	25	32	40	50	63	10	13	16	20	25	32	40	50	63
	0.1	0.2	0.34	0.53	0.58	0.62	0.7	0.85	1	0.24	0.5	1	2	3	T	T	T	T
		0.15	0.26	0.4	0.53	0.58	0.62	0.7	0.85	0.2	0.32	0.5	1	2	3.5	T	T	T
		0.1	0.2	0.26	0.4	0.53	0.58	0.62	0.7	0.15	0.24	0.35	0.5	1	2	4	T	T
			0.15	0.2	0.34	0.48	0.53	0.58	0.62		0.2	0.32	0.35	0.5	0.5	2	T	T
				0.15	0.26	0.4	0.48	0.53	0.58			0.24	0.3	0.5	0.5	1.5	3.5	T
					0.2	0.34	0.4	0.48	0.53					0.35	0.5	1	2.5	3.5
						0.26	0.34	0.4	0.48						0.5	0.5	1.5	2
						0.26	0.34	0.4	0.48							0.5	1	1.5
						0.26	0.34	0.4	0.48								0.5	1
	0.1	0.2	0.34	0.53	0.58	0.62	0.7	0.85	1	0.24	0.5	1	2	3	5	T	T	T
		0.15	0.26	0.4	0.53	0.58	0.62	0.7	0.85	0.2	0.32	0.5	1	2	3.5	5	T	T
		0.1	0.2	0.26	0.4	0.53	0.58	0.62	0.7	0.15	0.24	0.35	0.5	1	2	4	5.5	T
			0.15	0.2	0.34	0.48	0.53	0.58	0.62		0.2	0.32	0.35	0.5	0.5	2	4.5	T
				0.15	0.26	0.4	0.48	0.53	0.58			0.24	0.3	0.5	0.5	1.5	3.5	5.5
					0.2	0.34	0.4	0.48	0.53					0.35	0.5	1	2.5	3.5
						0.26	0.34	0.4	0.48						0.5	0.5	1.5	2
						0.26	0.34	0.4	0.48							0.5	1	1.5
						0.26	0.34	0.4	0.48								0.5	1
	0.1	0.2	0.34	0.53	0.58	0.62	0.7	0.85	1	0.24	0.5	1	2	3	5	6	7	9
		0.15	0.26	0.4	0.53	0.58	0.62	0.7	0.85	0.2	0.32	0.5	1	2	3.5	5	6	8
		0.1	0.2	0.26	0.4	0.53	0.58	0.62	0.7	0.15	0.24	0.35	0.5	1	2	4	5.5	7
			0.15	0.2	0.34	0.48	0.53	0.58	0.62		0.2	0.32	0.35	0.5	0.5	2	4.5	6
				0.15	0.26	0.4	0.48	0.53	0.58			0.24	0.3	0.5	0.5	1.5	3.5	5.5
					0.2	0.34	0.4	0.48	0.53					0.35	0.5	1	2.5	3.5
						0.26	0.34	0.4	0.48						0.5	0.5	1.5	2
						0.26	0.34	0.4	0.48							0.5	1	1.5
						0.26	0.34	0.4	0.48								0.5	1
	0.1	0.2	0.34	0.53	0.58	0.62	0.7	0.85	1	0.24	0.5	1	2	3	5	6	7	9
		0.15	0.26	0.4	0.53	0.58	0.62	0.7	0.85	0.2	0.32	0.5	1	2	3.5	5	6	8
		0.1	0.2	0.26	0.4	0.53	0.58	0.62	0.7	0.15	0.24	0.35	0.5	1	2	4	5.5	7
			0.15	0.2	0.34	0.48	0.53	0.58	0.62		0.2	0.32	0.35	0.5	0.5	2	4.5	6
				0.15	0.26	0.4	0.48	0.53	0.58			0.24	0.3	0.5	0.5	1.5	3.5	5.5
					0.2	0.34	0.4	0.48	0.53					0.35	0.5	1	2.5	3.5
						0.26	0.34	0.4	0.48						0.5	0.5	1.5	2
						0.26	0.34	0.4	0.48							0.5	1	1.5
						0.26	0.34	0.4	0.48								0.5	1

Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

MCCB @ 415 V 4p - S9 @ 240 V

			Supply s.	T1																			
			Version	B,C,N																			
			Release	TMD												TMD, MA							
			I _u [A]	160																			
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160**	160	16	20	25	32	40	50		
S931N	C	4.5	A4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	C		6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	C		10			3	3	3	T	T	T	T	T	T	T			3*	3	3	3	T	
	C		16					3	T	T	T	T	T	T	T				3*	3	T		
	C		20						3	T	T	T	T	T	T					3*	3		
	C		25							T	T	T	T	T	T					3*			
	C		32							T	T	T	T	T	T					3*			
	C		40							T	T	T	T	T	T								
S941N	B-C	6	A4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		10			3	3	3	4.5	T	T	T	T	T	T	T		3*	3	3	3	4.5	
	B-C		16					3	4.5	5	T	T	T	T	T	T			3*	3	4.5		
	B-C		20						3	5	6	T	T	T	T	T			3*	3			
	B-C		25							5	6	T	T	T	T	T				3*			
	B-C		32							6	T	T	T	T	T	T				3*			
	B-C		40							T	T	T	T	T	T	T							
S951N	B-C	10	A4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		6	6	6	6	6	6	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		10			3	3	3	4.5	7.5	8.5	T	T	T	T	T		3*	3	3	3	4.5	
	B-C		16					3	4.5	5	7.5	T	T	T	T	T			3*	3	4.5		
	B-C		20						3	5	6	T	T	T	T	T			3*	3			
	B-C		25							5	6	T	T	T	T	T				3*			
	B-C		32							6	7.5	T	T	T	T	T				3*			
	B-C		40							7.5	T	T	T	T	T	T							
S971N	B-C	10	A4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		6	6	6	6	6	6	12	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	B-C		10			3	3	3	4.5	7.5	8.5	T	T	T	T	T		3*	3	3	3	4.5	
	B-C		16					3	4.5	5	7.5	T	T	T	T	T			3*	3	4.5		
	B-C		20						3	5	6	T	T	T	T	T			3*	3			
	B-C		25							5	6	T	T	T	T	T				3*			
	B-C		32							6	7.5	T	T	T	T	T				3*			
	B-C		40							7.5	T	T	T	T	T	T							

Supply side circuit-breaker 4P (load side circuit branched between one phase and the neutral)

Load side circuit-breaker 1P+N (230/240 V)

* Value valid only for magnetic only supply side circuit-breaker

** Neutral 50%



T2														T3													
N,S,H,L														N,S													
EL														TMD, MA													
160														250													
	63	80	100	125**	125	160**	160	10	25	63	100	160		63	80	100	125**	125	160**	160	200**	200	250**	250			
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
		T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T*	T		T	T	T			T	T			T*	T		T	T	T	T	T	T	T	T	T	T	T	T
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	5	T	T	T	T	T	T		T	T	T		5	T	T	T	T	T	T	T	T	T	T	T	T	T	
	5	T	T	T	T	T	T		T	T	T		5	T	T	T	T	T	T	T	T	T	T	T	T	T	
	5	T	T	T	T	T	T		T	T	T		5	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
		T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T*	T		T	T	T			T	T			T*	T		T	T	T	T	T	T	T	T	T	T	T	T
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	7.5	8.5	T	T	T	T	T		T	T	T		7.5	8.5	T	T	T	T	T	T	T	T	T	T	T	T	
	5	7.5	T	7.5	T	T	T		T	T	T		5	7.5	T	7.5	T	T	T	T	T	T	T	T	T	T	
	5	6	T	6	T	T	T		T	T	T		5	6	T	6	T	T	T	T	T	T	T	T	T	T	
	5	6	T	6	T	T	T		T	T	T		5	6	T	6	T	T	T	T	T	T	T	T	T	T	
		6	7.5	6	T	T	T		T	T	T		6	7.5	6	T	T	T	T	T	T	T	T	T	T	T	
	6*	7.5		T	T	T			T	T			6*	7.5		T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	T	T	T	T	T	T	T		T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	7.5	8.5	T	T	T	T	T		T	T	T		7.5	8.5	T	T	T	T	T	T	T	T	T	T	T	T	
	5	7.5	T	7.5	T	T	T		T	T	T		5	7.5	T	7.5	T	T	T	T	T	T	T	T	T	T	
	5	6	T	6	T	T	T		T	T	T		5	6	T	6	T	T	T	T	T	T	T	T	T	T	
	5	6	T	6	T	T	T		T	T	T		5	6	T	6	T	T	T	T	T	T	T	T	T	T	
		6	7.5	6	T	T	T		T	T	T		6	7.5	6	T	T	T	T	T	T	T	T	T	T	T	
	6*	7.5		T	T	T			T	T			6*	7.5		T	T	T	T	T	T	T	T	T	T	T	

Discrimination

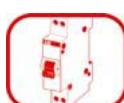
Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - S200L @ 400/415 V

Char.	I _{cu} [kA]	Supply s.	S290		S500			
			D		D			
		I _n [A]	15		50			63
S200L	C	6	6..8	T	1.5	2	3	5.5
			10	5	1	1.5	2	3
			13	4.5	6	1.5	2	3
			16	4.5	6		2	3
			20	3.5	5			2.5
			25	3.5	5			
			32		4.5			
			40					

2



Discrimination

Supply side circuit-breaker: MCB
Load side circuit-breaker: MCB

MCB - S200 @ 400/415 V

Load s.	Char.	I_{cu} [kA]	Supply s.	S290		S500		
				D		D		
			I_n [A]	80	100	32	40	50
S200	C	10	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	T	T	1.5	2	3
			8	T	T	1.5	2	3
			10	5	8	1	1.5	2
			13	4.5	7		1.5	2
			16	4.5	7		2	3
			20	3.5	5			2.5
			25	3.5	5			
	B-C	10	32		4.5			
			40					
			50					
			63					
	D	10	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	T	T	1.5	2	3
			8	T	T	1.5	2	3
			10	5	8	1	1.5	2
			13	3	5			1.5
			16	3	5			1.5
			20	3	5			2
			25		4			
			32					
			40					
			50					
			63					

2



Discrimination

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - S200 @ 400/415 V

Char.	I _{cu} [kA]	Supply s.	S290		S500		
			D		D		
		I _n [A]	80	100	32	40	50
S200	K	A2	T	T	T	T	T
		3	T	T	3	6	T
		4	T	T	2	3	6
		6	T	T	1.5	2	3
		8	T	T	1.5	2	3
		10	5	8		1.5	2
		16	3	5			2
		20	3	5			
		25		4			
		32					
		40					
		50					
		63					
		A2	T	T	T	T	T
S200	Z	3	T	T	3	6	T
		4	T	T	2	3	6
		6	T	T	1.5	2	3
		8	T	T	1.5	2	3
		10	5	8	1	1.5	2
		16	4.5	7	1	1.5	2
		20	3.5	5		1.5	2
		25	3.5	5			2.5
		32	3	4.5			2
		40	3	4.5			
		50		3			
		63					



Discrimination

Supply side circuit-breaker: MCB
Load side circuit-breaker: MCB

MCB - S200M @ 400/415 V

Load s.	Char.	I_{cu} [kA]	Supply s.	S290		S500		
				D		D		
			I_n [A]	80	100	32	40	50
S200M	C	15	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8	1	1.5	2
			13	4.5	7		1.5	2
			16	4.5	7			3
			20	3.5	5			
			25	3.5	5			
			32		4.5			
			40					
			50					
			63					
S200M	B-C	15	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8	1	1.5	2
			16	3	5			1.5
			20	3	5			2
			25		4			
			32					
			40					
			50					
			63					
S200M	D	15	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8	1	1.5	2
			16	3	5			1.5
			20	3	5			2
			25		4			
			32					
			40					
			50					
			63					
S200M	K	15	A2	T	T	T	T	T
			3	T	T	3	6	T
			4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8		1.5	2
			16	3	5			2
			20	3	5			
			25		4			
			32					
			40					
			50					
			63					



Discrimination

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - S200P @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	S290		S500		
				D		D		
			I _n [A]	80	100	32	40	50
S200P	C	25	A2	T	T	T	T	T
			3	T	T	3	6	15
			4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8	1	1.5	2
			13	4.5	7		1.5	2
			16	4.5	7			3
			20	3.5	5			2.5
			25	3.5	5			
	B-C	15	32		4.5			
			40					
			50					
			63					
			A2	T	T	T	T	T
			3	T	T	3	6	15
	D	25	4	T	T	2	3	6
			6	10.5	T	1.5	2	3
			8	10.5	T	1.5	2	3
			10	5	8	1	1.5	2
			13	3	5		1.5	2
			16	3	5		1.5	2
			20	3	5			2
			25		4			
			32					
			40					
			50					
			63					



Discrimination

Supply side circuit-breaker: MCB
Load side circuit-breaker: MCB

MCB - S200P @ 400/415 V

Load s.	Char.	I_{cu} [kA]	Supply s.	S290		S500		
			D	D				
			15	50				
		I_n [A]	80	100	32	40	50	63
S200P	K	A2	T	T	T	T	T	T
		3	T	T	3	6	15	15
		4	T	T	2	3	6	15
		6	10.5	T	1.5	2	3	5.5
		8	10.5	T	1.5	2	3	5.5
		10	5	8		1.5	2	3
		13	3	5			1.5	2
		16	3	5				2
		20	3	5				
		25		4				
S200P	Z	32						
		40						
		50						
		63						
		A2	T	T	T	T	T	T
		3	T	T	3	6	15	15
		4	T	T	2	3	6	15
		6	10.5	T	1.5	2	3	5.5
		8	10.5	T	1.5	2	3	5.5
		10	5	8	1	1.5	2	3
S200P	Z	16	4.5	7	1	1.5	2	3
		20	3.5	5		1.5	2	2.5
		25	3.5	5			2	2.5
		32	3	4.5				2
		40	3	4.5				
		50		3				
		63						



Discrimination

Supply side circuit-breaker: MCB

Load side circuit-breaker: MCB

MCB - S500 @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	S290	
				D	15
			I _n [A]	80	100
S500	B-C-D	50	6	6	10
			10	6	10
			13	6	10
			16	6	10
			20	6	7.5
			25	4.5	6
			32		6
			40		
			50		
			63		
	K	50	A5.8	T	T
			5.3..8	10	T
			7.3..11	7.5	T
			10..15	4.5	10
		30	14..20	4.5	6
			18..26		4.5
			23..32		
			29..37		
			34..41		
			38..45		



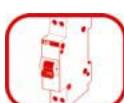
Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200L @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	T1									
			Version	B,C,N									
			Release	TM									
			I _u [A]	160									
S200L	C	6	6	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T
			8		5.5	5.5	5.5	5.5	T	T	T	T	T
			10			3	3	4.5	T	T	T	T	T
			13				3	4.5	T	T	T	T	T
			16					3	5	T	T	T	T
			20						3	5	T	T	T
			25							5	T	T	T
			32								T	T	T
			40								T	T	T



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200 @ 400/415 V

Supply s.		T1												
Version		B,C,N												
Release		TM												
I _u [A]		160												
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160
S200	C	10	A2	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			10			3	3	3	4.5	7.5	8.5	T	T	
			13				3	3	4.5	7.5	7.5	T	T	
			16					3	4.5	5	7.5	T	T	
			20						3	5	6	T	T	
			25							5	6	T	T	
	B-C		32								6	7.5	T	
			40									7.5	T	
			50									7.5	T	
			63										T	
	D	10	A2	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			10			3	3	3	3	5	8.5	T	T	
			13					2	2	3	5	8	T	
			16					2	2	3	5	8	T	
			20						2	3	4.5	6.5	T	
			25							2.5	4	6	9.5	
			32								4	6	9.5	
			40								5	8	T	
			50									5	9.5	
			63										9.5	



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200 @ 400/415 V

		Supply s.	T1											
		Version	B,C,N											
		Release	TM											
		I _u [A]	160											
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160
S200	K	10	A2	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			10			3	3	3	3	6	8.5	T	T	
			16					3	3	4.5	7.5	T	T	
			20						3	3.5	5.5	6.5	T	
			25							3.5	5.5	6	9.5	
			32								4.5	6	9.5	
			40									5	8	
			50										6	
			63										9.5	
			A2	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	T	T	T	T	
			10			3	3	3	4.5	8	8.5	T	T	
			16					3	4.5	5	7.5	T	T	
			20						3	5	6	T	T	
			25							5	6	T	T	
			32								6	7.5	T	
			40									7.5	T	
			50										7.5	
			63										T	



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200M @ 400/415 V

		Supply s.	T1											
		Version	B,C,N											
		Release	TM											
		I _u [A]	160											
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160
S200M	C	15	A2	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	
			10			3	3	3	4.5	7.5	8.5	T	T	
			13				3	3	4.5	7.5	7.5	12	T	
			16					3	4.5	5	7.5	12	T	
			20						3	5	6	10	T	
			25							5	6	10	T	
	B-C		32								6	7.5	12	
			40									7.5	12	
			50									7.5	10.5	
			63										10.5	
			A2	T	T	T	T	T	T	T	T	T	T	
	D	15	3	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	
			6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	10.5	12	T	T	
			10			3	3	3	3	5	8.5	T	T	
			16					2	2	3	5	8	13.5	
			20						2	3	4.5	6.5	11	
			25							2.5	4	6	9.5	
			32								4	6	9.5	
			40								5	8	T	
	K		50									5	9.5	
			63										9.5	



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200P @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	T1										
			Version	B,C,N										
			Release	TM										
			I _u [A]	160										
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160
S200P	C	25	A2	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	17*	T	T
			4	15	15	15	15	15	15	15	15	17*	T	T
			6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17*	T	T
			8		5.5	5.5	5.5	5.5	5.5	10.5	15	17*	T	T
			10			3	3	3	4.5	7.5	8.5	17*	T	T
			13				3	3	4.5	7.5	7.5	12	20*	T
			16					3	4.5	5	7.5	12	20*	T
	B-C	15	20						3	5	6	10	15	T
			25							5	6	10	15	T
			32								6	7.5	12	T
			40									7.5	12	T
			50									7.5	10.5	
			63										10.5	
	D	25	A2	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	17*	T	T
			4	15	15	15	15	15	15	15	15	17*	T	T
			6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17*	T	T
			8		5.5	5.5	5.5	5.5	5.5	10.5	12	17*	T	T
			10			3	3	3	3	5	8.5	17*	T	T
			13					2	2	3	5	8	13.5	T
			16					2	2	3	5	8	13.5	T
			20						2	3	4.5	6.5	11	T
			25							2.5	4	6	9.5	T
	15	15	32								4	6	9.5	T
			40									5	8	T
			50									5	9.5	
			63										9.5	

* Select the lowest value between what is indicated and the breaking capacity of the supply side circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S200P @ 400/415 V

Load s.		Char.	I _{cu} [kA]	I _b [A]	T1												
					B,C,N												
					TM												
					160												
2	S200P	K	25	A2	T	T	T	T	T	T	T	T	T	T			
				3	15	15	15	15	15	15	15	15	17*	T			
				4	15	15	15	15	15	15	15	15	17*	T			
				6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17*	T			
				8		5.5	5.5	5.5	5.5	5.5	10.5	12	17*	T			
				10			3	3	3	3	6	8.5	17*	T			
				13					3	3	5	7.5	10	13.5			
				16					3	3	4.5	7.5	10	13.5			
				20						3	3.5	5.5	6.5	11			
				25							3.5	5.5	6	9.5			
			15	32								4.5	6	9.5			
				40									5	8			
				50									6	9.5			
				63										9.5			
		Z	25	A2	T	T	T	T	T	T	T	T	T	T			
				3	15	15	15	15	15	15	15	15	17*	T			
				4	15	15	15	15	15	15	15	15	17*	T			
				6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17*	T			
				8		5.5	5.5	5.5	5.5	5.5	10.5	12	17*	T			
				10			3	3	3	4.5	8	8.5	17*	T			
				16					3	4.5	5	7.5	12	20*			
				20						3	5	6	10	15			
				25							5	6	10	15			
			15	32								6	7.5	12			
				40									7.5	12			
				50									7.5	10.5			
				63										10.5			

* Select the lowest value between what is indicated and the breaking capacity of the supply side circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T1 - S500 @ 400/415 V

		Supply s.	T1											
		Version	B,C,N											
		Release	TM											
		I _u [A]	160											
Load s.	Char.	I _{cu} [kA]	I _n [A]	16	20	25	32	40	50	63	80	100	125	160
S500	B-C-D	50	6	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	20*	25*	T
			10			4.5	4.5	4.5	4.5	8	10	20*	25*	T
			13				4.5	4.5	4.5	7.5	10	15	25*	T
			16					4.5	4.5	7.5	10	15	25*	T
			20						4.5	7.5	10	15	25*	T
			25							6	10	15	20*	T
			32								7.5	10	20*	T
			40									10	20*	T
			50										15	T
			63											T
	K	50	A5..8	36	36	T	T	T	T	T	T	T	T	T
			5.3..8	5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	T
			7.3..11			4.5	4.5	4.5	4.5	8	T	T	T	T
		30	10..15				4.5	4.5	4.5	7.5	10	15	T	T
			14..20					4.5	4.5	7.5	10	15	T	T
			18..26						4.5	7.5	10	15	T	T
			23..32							6	10	15	20*	T
			29..37								7.5	10	20*	T
			34..41									10	20*	T
			38..45										15	T

* Select the lowest value between what is indicated and the breaking capacity of the supply side circuit-breaker



Discrimination

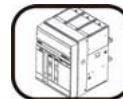
Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T2 - S200L @ 400/415 V

Supply s.			T2																	
Version			N,S,H,L																	
Release			TM,M										EL							
I _u [A]			160																	
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200L	C	6	6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T		T	T	T	T
			8			5.5	5.5	5.5	5.5	5.5	T	T	T	T	T		T	T	T	T
			10			3*	3	3	3	4.5	T	T	T	T	T		T	T	T	T
			13			3*		3	3	4.5	T	T	T	T	T		T	T	T	T
			16					3*	3	4.5	5	T	T	T	T		T	T	T	T
			20					3*		3	5	T	T	T	T		T	T	T	T
			25							3*	5	T	T	T	T		T	T	T	T
			32							3*		T	T	T	T		T	T	T	T
			40								5.5*	T	T	T	T			T	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T2 - S200 @ 400/415 V

2

		Supply s.	T2																	
		Version	N,S,H,L																	
		Release	TM,M												EL					
		I _u [A]	160																	
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200	C	10	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T		
			8			5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T		
			10			3*	3	3	3	4.5	7.5	8.5	T	T	T	T	T	T		
	B-C	10	13			3*		3	3	4.5	7.5	7.5	T	T	T	T	T	T		
			16					3*	3	4.5	5	7.5	T	T	T		T	T		
			20					3*		3	5	6	T	T	T		T	T		
			25							3*	5	6	T	T	T		T	T		
			32							3*		6	7.5	T	T		T	T		
			40									5.5*	7.5	T	T		T	T		
			50									3*	5*	7.5	T		T	T		
			63										5*		T			T		
	D	10	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T			
			8			5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T			
			10			3*	3	3	3	3	5	8.5	T	T	T	T	T			
			13					2*	2	2	3	5	8	T	T		T	T		
			16					2*	2	2	3	5	8	T	T		T	T		
			20					2*		2	3	4.5	6.5	T	T		T	T		
			25						2*	2.5	4	6	9.5	T			T	T		
			32								4	6	9.5	T			T	T		
			40								3*	5	8	T			T	T		
			50								2*	3*	5	9.5				9.5	9.5	
			63									3*		9.5					9.5	

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T2 - S200 @ 400/415 V

Supply s.			T2																	
Version			N,S,H,L																	
Release			TM,M										EL							
I _u [A]			160																	
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200	K	10	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T	T	
			8			5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T	T	
			10			3*	3	3	3	3	6	8.5	T	T	T	T	T	T	T	
			16					2*	3	3	4.5	7.5	T	T	T		T	T	T	
			20						2*		3	3.5	5.5	6.5	T	T		T	T	T
			25							2*	3.5	5.5	6	9.5	T		T	T	T	
			32									4.5	6	9.5	T		T	T	T	
			40									3*	5	8	T		T		T	T
			50									2*	3*	6	9.5			9.5	9.5	
			63									3*		9.5					9.5	
			A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T	T	
			8			5.5	5.5	5.5	5.5	5.5	T	T	T	T	T	T	T	T	T	
			10			3*	3	3	3	4.5	8	8.5	T	T	T	T	T	T	T	
			16					3*	3	4.5	5	7.5	T	T	T		T	T	T	
			20						3*		3	5	6	T	T	T		T	T	T
			25							3*	5	6	T	T	T		T	T	T	
			32							3*		6	7.5	T	T		T	T	T	
			40									5.5*	7.5	T	T		T	T	T	
			50									4*	5*	7.5	T		T		T	T
			63									5*		T					T	

* Value valid with supply side magnetic only circuit-breaker



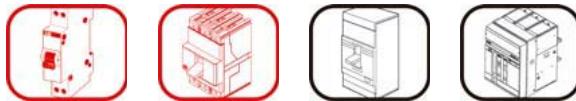
Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T2 - S200M @ 400/415 V

			Supply s.	T2																
			Version	N,S,H,L																
			Release	TM,M										EL						
			I _u [A]	160																
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200M	C	15	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	T	T	T	T	T	
	B-C	15	8			5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	T	T	T	T	T
			10			3*	3	3	3	4.5	7.5	8.5	T	T	T	T	T	T	T	
			13			3*		3	3	4.5	7.5	7.5	12	T	T	T	T	T	T	
			16					3*	3	4.5	5	7.5	12	T	T		T	T	T	
			20					3*		3	5	6	10	T	T		T	T	T	
			25							3*	5	6	10	T	T		T	T	T	
			32							3*		6	7.5	12	T		T	T	T	
			40									5.5*	7.5	12	T		T	T	T	
			50									3*	5*	7.5	10.5			10.5	10.5	
			63										5*		10.5				10.5	
	D	15	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	T	T	T	T	T	T	T	T	
			8			5.5	5.5	5.5	5.5	5.5	5.5	10.5	12	T	T	T	T	T	T	
			10			3*	3	3	3	3	5	8.5	T	T	T	T	T	T	T	
			16					2*	2	2	3	5	8	13.5	T		T	T	T	
			20					2*		2	3	4.5	6.5	11	T		T	T	T	
			25						2*	2.5	4	6	9.5	T		T	T	T	T	
			32								4	6	9.5	T		T	T	T	T	
			40								3*	5	8	T			T	T	T	
			50								2*	3*	5	9.5				9.5	9.5	
	K	15	63									3*		9.5					9.5	

* Value valid with supply side magnetic only circuit-breaker



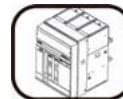
Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T2 - S200P @ 400/415 V

			Supply s.	T2																
			Version	N,S,H,L																
			Release	TM,M												EL				
			I _u [A]	160																
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200P	C	25	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			4	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			8			5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			10			3*	3	3	3	4.5	7.5	8.5	17	T	T	T	T	T	T	
			13			3*		3	3	4.5	7.5	7.5	12	20	T	T	T	T	T	
			16					3*	3	4.5	5	7.5	12	20	T		T	T	T	
	B-C	20	20					3*		3	5	6	10	15	T		T	T	T	
			25							3*	5	6	10	15	T		T	T	T	
			32							3*		6	7.5	12	T		T	T	T	
			40									5.5*	7.5	12	T		T	T	T	
	D	25	50									3*	5*	7.5	10.5			10.5	10.5	
			63										5*		10.5				10.5	
			A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			4	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			8			5.5	5.5	5.5	5.5	5.5	10.5	12	17	T	T	T	T	T	T	
			10			3*	3	3	3	3	5	8.5	17	T	T	T	T	T	T	
	15	20	13					2*	2	2	3	5	8	13.5	T		T	T	T	
			16					2*	2	2	3	5	8	13.5	T		T	T	T	
			20					2*		2	3	4.5	6.5	11	T		T	T	T	
			25						2*	2.5	4	6	9.5	T		T	T	T	T	
	15	32	32									4	6	9.5	T		T	T	T	
			40									3*	5	8	T		T	T	T	
			50									2*	3*	5	9.5			9.5	9.5	
			63									3*		9.5					9.5	

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T2 - S200P @ 400/415 V

			Supply s.	T2																
			Version	N,S,H,L																
			Release	TM,M										EL						
			I _u [A]	160																
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160
S200P	K	25	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			4	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	5.5	10.5	12	17	T	T	T	T	T	T	
			10		3*	3	3	3	3	3	6	8.5	17	T	T	T	T	T	T	
			13				2*	3	3	5	7.5	10	13.5	T		T	T	T	T	
			16				2*	3	3	4.5	7.5	10	13.5	T		T	T	T	T	
			20				2*		3	3.5	5.5	6.5	11	T		T	T	T	T	
			25						2*	3.5	5.5	6	9.5	T		T	T	T	T	
	15	15	32									4.5	6	9.5	T		T	T	T	
			40									3*	5	8	T		T	T	T	
			50									2*	3*	6	9.5			9.5	9.5	
			63									3*		9.5					9.5	
	Z	25	A2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			4	15	15	15	15	15	15	15	15	15	17	T	T	T	T	T	T	
			6	5.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			8		5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	17	T	T	T	T	T	T	
			10		3*	3	3	3	4.5	8	8.5	17	T	T	T	T	T	T	T	
			16				3*	3	4.5	5	7.5	12	20	T		T	T	T	T	
			20				3*		3	5	6	10	15	T		T	T	T	T	
			25						3*	5	6	10	15	T		T	T	T	T	
		15	32						3*		6	7.5	12	T		T	T	T	T	
			40								5.5*	7.5	12	T			T	T	T	
			50								4*	5*	7.5	10.5				10.5	10.5	
			63								5*		10.5						10.5	

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T2 - S290 @ 400/415 V

		Supply s.	T2															
		Version	N,S,H,L															
		Release	TM,M										EL					
		I _u [A]	160															
Load s.	Char.	I _{cu} [kA]	I _n [A]	160				160										
S290	C-D-K	15	80					4										
			100					4										
			125					4										

2

Tmax T2 - S500 @ 400/415 V

		Supply s.	T2																						
		Version	N,S,H,L																						
		Release	TM,M										EL												
		I _u [A]	160																						
Load s.	Char.	I _{cu} [kA]	I _n [A]	12.5	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160					
S500	B-C-D	50	6	4.5	5.5	5.5	5.5	5.5	5.5	5.5	10.5	15	20	25	36		36	36	36	36					
			10			4.5*	4.5	4.5	4.5	4.5	4.5	8	10	20	25	36		36	36	36	36				
			13			4.5*		4.5	4.5	4.5	7.5	10	15	25	36		36	36	36	36	36				
			16				4.5*	4.5	4.5	7.5	10	15	25	36			36	36	36	36	36				
			20					4.5*		4.5	7.5	10	15	25	36		36	36	36	36	36				
			25						4.5*	6	10	15	20	36			36	36	36	36	36				
			32							4.5*		7.5	10	20	36			36	36	36	36	36			
			40								5*	10	20	36				36	36	36	36	36			
			50									5*	7.5*	15	36				36	36	36	36	36		
			63										5*		36							36			
S500	K	50	A5.8	36	36	36	36	36	36	36	36	36	36	36	50**	50**	50**	50**	50**	50**	50**	50**			
			5.3..8	4.5*	5.5	5.5	5.5	5.5	5.5	5.5	10.5	36	36	36	50**		50**	50**	50**	50**	50**	50**	50**		
			7.3..11			4.5*	4.5	4.5	4.5	4.5	8	36	36	36	50**		50**	50**	50**	50**	50**	50**	50**		
		30	10..15			4.5*		4.5	4.5	4.5	7.5	10	15	T	T		T	T	T	T	T	T	T		
			14..20				4.5*	4.5	4.5	7.5	10	15	T	T				T	T	T	T	T	T		
			18..26					4.5*		4.5	7.5	10	15	T	T			T	T	T	T	T	T		
			23..32						4.5*	6	10	15	20	T				T	T	T	T	T	T		
			29..37							4.5*		7.5	10	20	T				T	T			T	T	
			34..41								5*	10	20	T					T	T			T	T	
			38..45									5*	7.5*	15	T					T	T			T	T

* Value valid with supply side magnetic only circuit-breaker

** Select the lowest value between what is indicated and the breaking capacity of the supply side circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T3 - S200L@ 400/415 V

		Supply s.	T3							
		Version	N,S							
		Release	TM,M							
		I _u [A]	250							
Load s.	Char.	I _{cu} [kA]	I _n [A]	63	80	100	125	160	200	250
S200L	C	6	6	T	T	T	T	T	T	T
			8	T	T	T	T	T	T	T
			10	T	T	T	T	T	T	T
			13	T	T	T	T	T	T	T
			16	5	T	T	T	T	T	T
			20	5	T	T	T	T	T	T
			25	5	T	T	T	T	T	T
			32		T	T	T	T	T	T
			40		4	T	T	T	T	T



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T3 - S200 @ 400/415 V

Load s.		I _{cu} [kA]	Supply s.	T3						
			Version	N,S						
			Release	TM,M						
			I _u [A]	250						
Char.	I _n [A]	63	80	100	125	160	200	250		
S200	C	A2	T	T	T	T	T	T	T	
		3	T	T	T	T	T	T	T	
		4	T	T	T	T	T	T	T	
		6	T	T	T	T	T	T	T	
		8	T	T	T	T	T	T	T	
		10	7.5	8.5	T	T	T	T	T	
		13	7.5	7.5	T	T	T	T	T	
		16	5	7.5	T	T	T	T	T	
		20	5	6	T	T	T	T	T	
		25	5	6	T	T	T	T	T	
	B-C	32		6	7.5	T	T	T	T	
		40			7.5	T	T	T	T	
		50				5*	7.5	T	T	
		63					5*	6*	T	
		A2	T	T	T	T	T	T	T	
		3	T	T	T	T	T	T	T	
		4	T	T	T	T	T	T	T	
		6	T	T	T	T	T	T	T	
	D	8	T	T	T	T	T	T	T	
		10	5	8.5	T	T	T	T	T	
		13	3	5	8	T	T	T	T	
		16	3	5	8	T	T	T	T	
		20	3	4.5	6.5	T	T	T	T	
		25	2.5	4	6	9.5	T	T	T	
		32		4	6	9.5	T	T	T	
		40			5	8	T	T	T	
		50				3*	5	9.5	T	
		63				3*	5*	9.5	T	

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T3 - S200 @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	T3						
			Version	N,S						
			Release	TM,M						
			I _u [A]	250						
Load s.	Char.	I _{cu} [kA]	I _n [A]	63	80	100	125	160	200	250
S200	K	10	A2	T	T	T	T	T	T	T
			3	T	T	T	T	T	T	T
			4	T	T	T	T	T	T	T
			6	T	T	T	T	T	T	T
			8	T	T	T	T	T	T	T
			10	6	8.5	T	T	T	T	T
			16	4.5	7.5	T	T	T	T	T
			20	3.5	5.5	6.5	T	T	T	T
			25	3.5	5.5	6	9.5	T	T	T
			32		4.5	6	9.5	T	T	T
			40			5	8	T	T	T
			50			3*	6	9.5	T	T
			63			3*	5.5*	9.5	T	T
	Z	10	A2	T	T	T	T	T	T	T
			3	T	T	T	T	T	T	T
			4	T	T	T	T	T	T	T
			6	T	T	T	T	T	T	T
			8	T	T	T	T	T	T	T
			10	8	8.5	T	T	T	T	T
			16	5	7.5	T	T	T	T	T
			20	5	6	T	T	T	T	T
			25	5	6	T	T	T	T	T
			32		6	7.5	T	T	T	T
			40			7.5	T	T	T	T
			50			5*	7.5	T	T	T
			63			5*	6*	T	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T3 - S200M @ 400/415 V

Load s.		I _{cu} [kA]	I _n [A]	T3								
				N,S								
				TM,M								
				250								
Char.	I _{cu} [kA]			63	80	100	125	160	200	250		
S200M	15	C	A2	T	T	T	T	T	T	T		
			3	T	T	T	T	T	T	T		
			4	T	T	T	T	T	T	T		
			6	10.5	T	T	T	T	T	T		
			8	10.5	T	T	T	T	T	T		
			10	7.5	8.5	T	T	T	T	T		
		B-C	13	7.5	7.5	12	T	T	T	T		
			16	5	7.5	12	T	T	T	T		
			20	5	6	10	T	T	T	T		
			25	5	6	10	T	T	T	T		
			32		6	7.5	12	T	T	T		
			40			7.5	12	T	T	T		
			50				5*	7.5	10.5	T		
			63				5*	6*	10.5	T		
			A2	T	T	T	T	T	T	T		
		D	3	T	T	T	T	T	T	T		
			4	T	T	T	T	T	T	T		
			6	10.5	T	T	T	T	T	T		
			8	10.5	12	T	T	T	T	T		
			10	5	8.5	T	T	T	T	T		
			16	3	5	8	13.5	T	T	T		
			20	3	4.5	6.5	11	T	T	T		
			25	2.5	4	6	9.5	T	T	T		
			32		4	6	9.5	T	T	T		
			40			5	8	T	T	T		
			50				3*	5	9.5	T		
			63				3*	5*	9.5	T		
		K	A2	T	T	T	T	T	T	T		
			3	T	T	T	T	T	T	T		
			4	T	T	T	T	T	T	T		
			6	10.5	T	T	T	T	T	T		
			8	10.5	12	T	T	T	T	T		
			10	6	8.5	T	T	T	T	T		
			16	4.5	7.5	10	13.5	T	T	T		
			20	3.5	5.5	6.5	11	T	T	T		
			25	3.5	5.5	6	9.5	T	T	T		
			32		4.5	6	9.5	T	T	T		
			40			5	8	T	T	T		
			50				3*	6	9.5	T		
			63				3*	5.5*	9.5	T		

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T3 - S200P @ 400/415 V

Load s.	Char.	I _{cu} [kA]	Supply s.	T3						
			Version	N,S						
			Release	TM,M						
			I _u [A]	250						
			I _n [A]	63	80	100	125	160	200	250
S200P	C	25	A2	T	T	T	T	T	T	T
			3	15	15	17	T	T	T	T
			4	15	15	17	T	T	T	T
			6	10.5	15	17	T	T	T	T
			8	10.5	15	17	T	T	T	T
			10	7.5	8.5	17	T	T	T	T
			13	7.5	7.5	12	20	T	T	T
			16	5	7.5	12	20	T	T	T
			20	5	6	10	15	T	T	T
	B-C	15	25	5	6	10	15	T	T	T
			32		6	7.5	12	T	T	T
			40			7.5	12	T	T	T
			50			5*	7.5	10.5	T	T
			63			5*	6*	10.5	T	T
			A2	T	T	T	T	T	T	T
			3	15	15	T	T	T	T	T
			4	15	15	T	T	T	T	T
			6	10.5	15	T	T	T	T	T
	D	25	8	10.5	12	T	T	T	T	T
			10	5	8.5	T	T	T	T	T
			13	3	5	8	13.5	T	T	T
			16	3	5	8	13.5	T	T	T
			20	3	4.5	6.5	11	T	T	T
			25	2.5	4	6	9.5	T	T	T
			32		4	6	9.5	T	T	T
			40			5	8	T	T	T
			50			3*	5	9.5	T	T
			63			3*	5*	9.5	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T3 - S200P @ 400/415 V

Load s.		Char.	I _{cu} [kA]	T3						
				I _n [A]	63	80	100	125	160	200
S200P	K	25	A2	T	T	T	T	T	T	T
			3	15	15	17	T	T	T	T
			4	15	15	17	T	T	T	T
			6	10.5	15	17	T	T	T	T
			8	10.5	12	17	T	T	T	T
			10	6	8.5	17	T	T	T	T
			13	5	7.5	10	13.5	T	T	T
			16	4.5	7.5	10	13.5	T	T	T
			20	3.5	5.5	6.5	11	T	T	T
			25	3.5	5.5	6	9.5	T	T	T
		15	32		4.5	6	9.5	T	T	T
			40			5	8	T	T	T
			50			3*	6	9.5	T	T
			63			3*	5.5*	9.5	T	T
	Z	25	A2	T	T	T	T	T	T	T
			3	15	15	17	T	T	T	T
			4	15	15	17	T	T	T	T
			6	10.5	15	17	T	T	T	T
			8	10.5	15	17	T	T	T	T
			10	8	8.5	17	T	T	T	T
			16	5	7.5	12	20	T	T	T
			20	5	6	10	15	T	T	T
		15	25	5	6	10	15	T	T	T
			32		6	7.5	12	T	T	T
			40			7.5	12	T	T	T
			50			5*	7.5	10.5	T	T
			63			5*	6*	10.5	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T3 - S290 @ 400/415 V

		Supply s.	T3			
		Version	N,S			
		Release	TM,M			
		I_u [A]	250			
Load s.	Char.	I_{cu} [kA]	I_n [A]	160	200	250
S290	C-D-K	15	80	4*	10	15
			100	4*	7.5*	15
			C	125	7.5*	

* Value valid with supply side magnetic only circuit-breaker

2

Tmax T3 - S500 @ 400/415 V

		Supply s.	T3							
		Version	N,S							
		Release	TM,M							
		I_u [A]	250							
Load s.	Char.	I_{cu} [kA]	I_n [A]	63	80	100	125	160	200	250
S500	B-C-D	50	6	10.5	15	20	25	36	36	36
			10	8	10	20	25	36	36	36
			13	7.5	10	15	25	36	36	36
			16	7.5	10	15	25	36	36	36
			20	7.5	10	15	25	36	36	36
			25	6	10	15	20	36	36	36
			32		7.5	10	20	36	36	36
			40			10	20	36	36	36
			50			7.5*	15	36	36	36
			63			5*	6*	36	36	36
S500	K	50	A5.8	36	36	36	36	T	T	T
			5.3..8	10.5	36	36	36	T	T	T
			7.3..11	8	36	36	36	T	T	T
		30	10..15	7.5	10	15	T	T	T	T
			14..20	7.5	10	15	T	T	T	T
			18..26	7.5	10	15	T	T	T	T
			23..32	6	10	15	20	T	T	T
			29..37		7.5	10	20	T	T	T
			34..41			10	20	T	T	T
			38..45			7.5*	15	T	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T4 - S200L @ 400/415 V

Supply s.			T4														
Version			N,S, H, L, V														
Release			TM,M								EL						
I_u [A]			250								250		320				
Load s.	Char.	I_{cu} [kA]	I_n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320
S200L	C	6	6	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			8	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			10	5	5*	5	T	T	T	T	T	T	T	T	T	T	T
			13		5*	5	T	T	T	T	T	T	T	T	T	T	T
			16		3*	5	T	T	T	T	T	T	T	T	T	T	T
			20				5	T	T	T	T	T	T	T	T	T	T
			25					5	T	T	T	T	T	T	T	T	T
			32						5**	T	T	T	T	T	T	T	T
			40							T	T	T	T	T	T	T	T

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T4 - S200 @ 400/415 V

		Supply s.	T4											
		Version	N,S, H, L, V											
		Release	TM,M								EL			
		I _u [A]	250								250		320	
Load s.	Char.	I _{cu} [kA]	I _n [A]	20	25	32	50	80	100	125	160	200	250	
S200	C	10	A2	T	T*	T	T	T	T	T	T	T	T	
			3	T	T*	T	T	T	T	T	T	T	T	
			4	T	T*	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	
			10	5	5*	5	6.5	9	T	T	T	T	T	
	B-C	10	13		5*	5	6.5	8	T	T	T	T	T	
			16		3*	5	6.5	8	T	T	T	T	T	
			20				5	7.5	T	T	T	T	T	
			25				5	7.5	T	T	T	T	T	
			32				5**	7.5	T	T	T	T	T	
			40					6.5	T	T	T	T	T	
			50					5*	T	T	T	T	T	
			63						T*	T	T	T	T	
			A2	T	T*	T	T	T	T	T	T	T	T	
			3	T	T*	T	T	T	T	T	T	T	T	
			4	T	T*	T	T	T	T	T	T	T	T	
	D	10	6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	
			10	5	5*	5	5	9	T	T	T	T	T	
			13		5*		4	5.5	T	T	T	T	T	
			16				4	5.5	T	T	T	T	T	
			20				4**	5	T	T	T	T	T	
			25				4**	4.5	T	T	T	T	T	
			32					4.5*	T	T	T	T	T	
			40					4.5*	T*	T	T	T	T	
			50						T*	T	T	T	T	
			63							T*	T*	T	T	

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

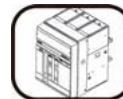
Load side circuit-breaker: MCB

Tmax T4 - S200 @ 400/415 V

Supply s.			T4														
Version			N,S, H, L, V														
Release			TM,M								EL						
I_u [A]			250								250		320				
Load s.	Char.	I_{cu} [kA]	I_n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320
S200	K	10	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			3	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			4	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T
			10		5*	5	5	9	T	T	T	T	T	T	T	T	T
			16		5*		5	8	T	T	T	T	T	T	T	T	T
			20				5	6	T	T	T	T	T	T	T	T	T
			25					5**	6*	T	T	T	T	T	T	T	T
			32						5**	6*	T*	T	T	T	T	T	T
			40							5.5*	T*	T*	T	T	T	T	T
			50								5*	T*	T*	T*	T	T	T
			63									T*	T*	T*	T	T	T
			A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			3	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			4	T	T*	T	T	T	T	T	T	T	T	T	T	T	T
			6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T
			10	5	5*	5	6.5	9	T	T	T	T	T	T	T	T	T
			16		5*	4.5	6.5	8	T	T	T	T	T	T	T	T	T
			20				5	7.5	T	T	T	T	T	T	T	T	T
			25					5	7.5	T	T	T	T	T	T	T	T
			32						5**	7.5	T	T	T	T	T	T	T
			40							6.5	T	T	T	T	T	T	T
			50								5*	T	T	T	T	T	T
			63									T*	T	T	T	T	T

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T4 - S200M @ 400/415 V

			Supply s.	T4														
			Version	N,S, H, L, V														
			Release	TM,M								EL						
			I _u [A]	250														
Load s.	Char.	I _{cu} [kA]	I _n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320	
S200M	C	15	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
	B-C		6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			10	5	5*	5	6.5	9	T	T	T	T	T	T	T	T	T	
			13		5*	5	6.5	8	T	T	T	T	T	T	T	T	T	
			16		3*	5	6.5	8	T	T	T	T	T	T	T	T	T	
			20				5	7.5	T	T	T	T	T	T	T	T	T	
			25				5	7.5	T	T	T	T	T	T	T	T	T	
			32				5**	7.5	T	T	T	T	T	T	T	T	T	
			40					6.5	T	T	T	T	T	T	T	T	T	
			50					5*	T	T	T	T	T	T	T	T	T	
			63						T*	T	T	T	T	T	T	T	T	
	D		A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			10	5	5*	5	5	9	T	T	T	T	T	T	T	T	T	
			16				4	5.5	T	T	T	T	T	T	T	T	T	
			20				4**	5	T	T	T	T	T	T	T	T	T	
			25				4**	4.5	T	T	T	T	T	T	T	T	T	
			32					4.5*	T	T	T	T	T	T	T	T	T	
			40					4.5*	T*	T	T	T	T	T	T	T	T	
			50						T*	T*	T	T	T	T	T	T	T	
			63							T*	T*	T	T	T	T	T	T	
S200M	K	15	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			3	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			4	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	T	T	T	T	T	T	T	T	T	T	
			10		5*	5	5	9	T	T	T	T	T	T	T	T	T	
			16		5*		5	8	T	T	T	T	T	T	T	T	T	
			20				5	6	T	T	T	T	T	T	T	T	T	
			25				5**	6*	T	T	T	T	T	T	T	T	T	
			32				5**	6*	T*	T	T	T	T	T	T	T	T	
			40					5.5*	T*	T*	T	T	T	T	T	T	T	
			50					5*	T*	T*	T*	T	T	T	T	T	T	
			63						T*	T*	T*	T*	T	T	T	T	T	

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

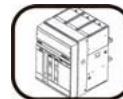
Load side circuit-breaker: MCB

Tmax T4 - S200P @ 400/415 V

Supply s.			T4															
Version			N,S, H, L, V															
Release			TM,M								EL							
I _u [A]			250				250				250							
Load s.	Char.	I _{cu} [kA]	I _n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320	
S200P	C	25	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15*	15	15	15	T	T	T	T	T	T	T	T	T	
			4	15	15*	15	15	15	T	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	T	
	B-C	15	8	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	T	
			10	5	5*	5	6.5	9	T	T	T	T	T	T	T	T	T	
			13		5*	5	6.5	8	T	T	T	T	T	T	T	T	T	
			16		3*	5	6.5	8	T	T	T	T	T	T	T	T	T	
			20				5	7.5	T	T	T	T	T	T	T	T	T	
			25				5	7.5	T	T	T	T	T	T	T	T	T	
			32					5**	7.5	T	T	T	T	T	T	T	T	
			40						6.5	T	T	T	T	T	T	T	T	
	D	25	50							5*	T	T	T	T	T	T	T	T
			63								T*	T*	T	T	T	T	T	T
			A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15*	15	15	15	T	T	T	T	T	T	T	T	T	
			4	15	15*	15	15	15	T	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	T	
			10	5	5*	5	5	9	T	T	T	T	T	T	T	T	T	
		15	13		5*		4	5.5	T	T	T	T	T	T	T	T	T	
			16				4	5.5	T	T	T	T	T	T	T	T	T	
			20					4**	5	T	T	T	T	T	T	T	T	
			25						4**	4.5	T	T	T	T	T	T	T	T
		32	32							4.5*	T	T	T	T	T	T	T	T
			40								4.5*	T*	T	T	T	T	T	T
			50									T*	T*	T	T	T	T	T
			63										T*	T*	T	T	T	T

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T4 - S200P @ 400/415 V

		Supply s.	T4														
		Version	N,S, H, L, V														
		Release	TM,M										EL				
		I _u [A]	250												250	320	
Load s.	Char.	I _{cu} [kA]	I _n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320
S200P	K	25	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15*	15	15	15	T	T	T	T	T	T	T	T	
			4	15	15*	15	15	15	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	
			10		5*	5	5	9	T	T	T	T	T	T	T	T	
			13		5*	5	5	8	T	T	T	T	T	T	T	T	
			16		5*		5	8	T	T	T	T	T	T	T	T	
			20				5	6	T	T	T	T	T	T	T	T	
			25					5**	6*	T	T	T	T	T	T	T	
	15	15	32					5**	6*	T*	T	T	T	T	T	T	
			40						5.5*	T*	T*	T	T	T	T	T	
			50						5*	T*	T*	T	T	T	T	T	
			63							T*	T*	T*	T	T	T	T	
	Z	25	A2	T	T*	T	T	T	T	T	T	T	T	T	T	T	
			3	15	15*	15	15	15	T	T	T	T	T	T	T	T	
			4	15	15*	15	15	15	T	T	T	T	T	T	T	T	
			6	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	
			8	7.5	7.5*	7.5	7.5	15	T	T	T	T	T	T	T	T	
			10	5	5*	5	6.5	9	T	T	T	T	T	T	T	T	
			16		5*	4.5	6.5	8	T	T	T	T	T	T	T	T	
			20				5	7.5	T	T	T	T	T	T	T	T	
			25					5	7.5	T	T	T	T	T	T	T	
		15	32					5**	7.5	T	T	T	T	T	T	T	
			40						6.5	T	T	T	T	T	T	T	
			50						5*	T	T	T	T	T	T	T	
			63							T*	T	T	T	T	T	T	

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB

Load side circuit-breaker: MCB

Tmax T4 - S290 @ 400/415 V

Supply s.		T4							
Version		N,S, H, L, V							
Release		TM,M			EL				
I _u [A]		250			250		320		
Load s.	Char.	I _{cu} [kA]	I _n [A]	160	200	250	160	250	320
S290	C-K	15	80	5	11	T	T	T	T
			100	5*	8	T	12	T	T
	C		125		8*	12		T	T
			80	5	11	T	T	T	T
	D		100		8	T	12	T	T

* Value valid with supply side magnetic only circuit-breaker



Discrimination

Supply side circuit-breaker: MCCB
Load side circuit-breaker: MCB

Tmax T4 - S500 @ 400/415 V

			Supply s.	T4													
			Version	N,S, H, L, V													
			Release	TM,M								EL					
			I _u [A]	250								250		320			
Load s.	Char.	I _{cu} [kA]	I _n [A]	20	25	32	50	80	100	125	160	200	250	100	160	250	320
S500	B-C	50	6	7.5	7.5*	7.5	7.5	16	T	T	T	T	T	T	T	T	T
			10	6.5	6.5*	6.5	6.5	11	T	T	T	T	T	T	T	T	T
			13	6.5	5*	6.5	6.5	11	T	T	T	T	T	T	T	T	T
			16		5*	6.5	6.5	11	T	T	T	T	T	T	T	T	T
			20		4*	6.5	6.5	11	T	T	T	T	T	T	T	T	T
			25				6.5	11	T	T	T	T	T	T	T	T	T
			32				6.5	8	T	T	T	T	T	T	T	T	T
			40					5*	6.5	T	T	T	T	T	T	T	T
			50						5*	7.5	T	T	T	T	T	T	T
			63							5*	7	T	T	T	T	T	T
	D	50	6	7.5	7.5*	7.5	7.5	16	T	T	T	T	T	T	T	T	T
			10	6.5	6.5*	6.5	6.5	11	T	T	T	T	T	T	T	T	T
			13		5*		6.5	11	T	T	T	T	T	T	T	T	T
			16				6.5	11	T	T	T	T	T	T	T	T	T
			20					6.5**	11	T	T	T	T	T	T	T	T
			25						6.5**	11	T	T	T	T	T	T	T
			32							8*	T	T	T	T	T	T	T
			40							6.5*	T*	T	T	T	T	T	T
			50								7.5*	T*	T	T	T	T	T
	K	50	A5.8	40	40*	40	40	40	T	T	T	T	T	T	T	T	T
			5.3..8	6	6*	6	6	40	T	T	T	T	T	T	T	T	T
			7.3..11		5*	5	5	40	T	T	T	T	T	T	T	T	T
		30	10..15		5*		5	12	T	T	T	T	T	T	T	T	T
			14..20				5	12	T	T	T	T	T	T	T	T	T
			18..26				5**	12*	T	T	T	T	T	T	T	T	T
			23..32				5**	12*	T*	T	T	T	T	T	T	T	T
			29..37				5**	8*	T*	T*	T	T	T	T	T	T	T
			34..41					6*	T*	T*	T	T	T	T	T	T	T
			38..45						6*	8*	T*	T*	T	T	T	T	T

* Value valid with supply side magnetic only circuit-breaker

** Value valid with supply side magnetic only MA 52 circuit-breaker





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Due to possible developments of standards as well as of materials,
the characteristics and dimensions specified in the present
catalogue may only be considered binding after confirmation by
ABB SACE.