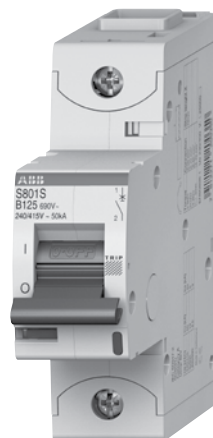


S800 Series High Performance Circuit Breakers



S800

High performance circuit breakers
UL 489 Series



Description

The S800 high performance MCB offers a compact solution to circuit protection. The S800 devices are DIN rail mounted. The S800 is available with application-specific trip characteristics to provide maximum circuit protection.

The breakers offer thermal-magnetic trip protection according to Z and K characteristics.

For the worldwide market, the breakers carry CSA, IEC, CE and many other agency approvals.

Features

- Energy limiting
- Fast breaking time (2.3 – 2.5 ms)
- Wide range of accessories
- DIN rail mounting
- Finger safe terminals
- Multi-function terminals
- Ring tongue compatible
- UL489 File # E312425

S800U

Amperage	10 – 100 A
Voltage	240 VAC
Poles	1, 2, 3, 4 poles
Trip characteristics	Z, K
Interrupting ratings	30kA: UL 489, single pole 50kA: UL 489, multi-pole
Auxiliary contacts	Yes
Bell alarm	Yes
Shunt trip	Yes
Undervoltage release	Yes
Ring tongue	Yes

S800U-K, 240 VAC

Branch circuit protection

UL 489

K



S801U-K



S802U-K



S803U-K



S804U-K

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801U-K10	\$ 90	3	10	S803U-K10	\$ 210
	15	S801U-K15			15	S803U-K15	
	20	S801U-K20			20	S803U-K20	
	25	S801U-K25			25	S803U-K25	
	30	S801U-K30			30	S803U-K30	
	40	S801U-K40			40	S803U-K40	
	50	S801U-K50	100		50	S803U-K50	220
	60	S801U-K60	110		60	S803U-K60	230
	70	S801U-K70	120		70	S803U-K70	240
	80	S801U-K80	130		80	S803U-K80	250
90	S801U-K90	140	90	S803U-K90	260		
100	S801U-K100	150	100	S803U-K100	270		
2	10	S802U-K10	160	4	10	S804U-K10	290
	15	S802U-K15			15	S804U-K15	
	20	S802U-K20			20	S804U-K20	
	25	S802U-K25			25	S804U-K25	
	30	S802U-K30			30	S804U-K30	
	40	S802U-K40			40	S804U-K40	
	50	S802U-K50	170		50	S804U-K50	300
	60	S802U-K60	180		60	S804U-K60	310
	70	S802U-K70	190		70	S804U-K70	320
	80	S802U-K80	200		80	S804U-K80	330
90	S802U-K90	210	90	S804U-K90	350		
100	S802U-K100	220	100	S804U-K100	360		

Tripping characteristic K

UL 489

240 VAC

30 kA, single pole

50 kA, multi-pole

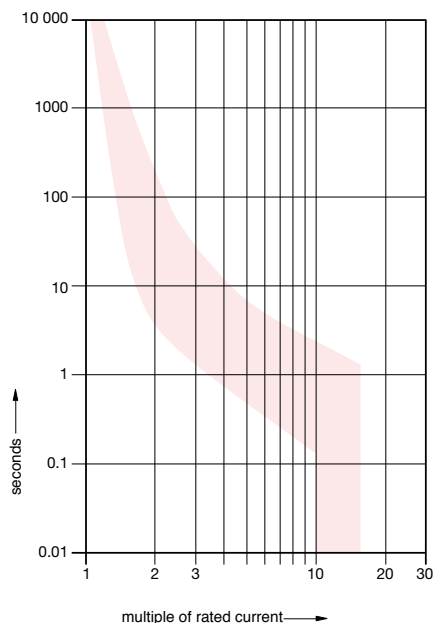
Resistive loads

- K Curve
- Designed for use in cable protection applications
- Example: control circuits, lighting

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



S800U-Z, 240 VAC

Branch circuit protection

UL 489

S800
Miniature
circuit breakers

Z



S801U-Z



S802U-Z



S803U-Z



S804U-Z

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801U-Z10	\$ 115	3	10	S803U-Z10	\$ 260
	15	S801U-Z15			15	S803U-Z15	
	20	S801U-Z20			20	S803U-Z20	
	25	S801U-Z25			25	S803U-Z25	
	30	S801U-Z30			30	S803U-Z30	
	40	S801U-Z40			40	S803U-Z40	
	50	S801U-Z50	125		50	S803U-Z50	290
	60	S801U-Z60	125		60	S803U-Z60	290
	70	S801U-Z70	155		70	S803U-Z70	310
	80	S801U-Z80	155		80	S803U-Z80	310
2	90	S801U-Z90	155		90	S803U-Z90	310
	100	S801U-Z100	155		100	S803U-Z100	310
	10	S802U-Z10	195	4	10	S804U-Z10	360
	15	S802U-Z15			15	S804U-Z15	
	20	S802U-Z20			20	S804U-Z20	
	25	S802U-Z25			25	S804U-Z25	
	30	S802U-Z30			30	S804U-Z30	
	40	S802U-Z40			40	S804U-Z40	
	50	S802U-Z50	210		50	S804U-Z50	400
	60	S802U-Z60	210		60	S804U-Z60	400
	70	S802U-Z70	220		70	S804U-Z70	400
	80	S802U-Z80	220		80	S804U-Z80	400
	90	S802U-Z90	220		90	S804U-Z90	400
	100	S802U-Z100	220		100	S804U-Z100	425

Tripping characteristic Z

UL 489

240 VAC

30 kA, single pole

50 kA, multi-pole

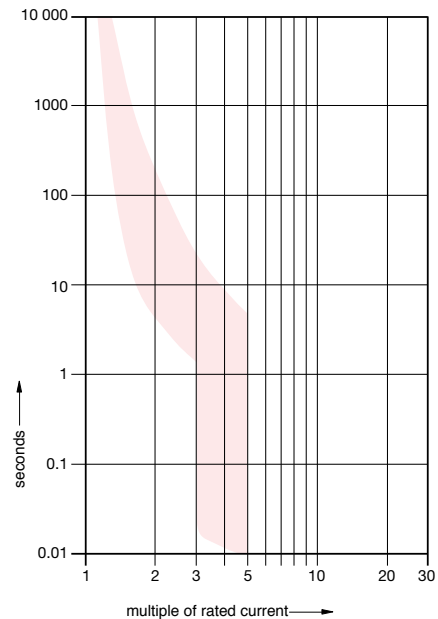
Resistive loads

- Z Curve
- Designed for use in cable protection applications
- Example: control circuits, lighting

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



S800 Series High Performance Circuit Breakers



S800

High performance circuit breakers
IEC Series



Description

The S800 high performance MCB offers a compact solution to circuit protection. The S800 devices are IEC tested current limiting and DIN rail mounted. The S800 is available with application-specific trip characteristics to provide maximum circuit protection.

The breakers offer thermal-magnetic trip protection according to B, C, D & K characteristics.

For the worldwide market, the breakers carry CSA, IEC, CE and many other agency approvals.

Features

- Current limiting
- Fast breaking time (2.3 – 2.5 ms)
- Wide range of accessories
- DIN rail mounting
- Finger safe terminals
- Multi-function terminals
- Ring tongue compatible

S800S

Amperage	10 – 125 A
Voltage	690 VAC
Poles	1, 2, 3, 4
Trip characteristics	B, C, D, K
Interrupting ratings	50 kA : IEC
Auxiliary contacts	Yes
Bell alarm	Yes
Shunt trip	Yes
Undervoltage release	Yes
Ring tongue	Yes

S800S-B, 690 VAC IEC

B



S801U-B



S802U-B



S803U-B



S804U-B

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801S-B10	\$ 130	3	10	S803S-B10	\$ 340
	13	S801S-B13			13	S803S-B13	
	16	S801S-B16			16	S803S-B16	
	20	S801S-B20			20	S803S-B20	
	25	S801S-B25			25	S803S-B25	
	32	S801S-B32			32	S803S-B32	
	40	S801S-B40			40	S803S-B40	
	50	S801S-B50			50	S803S-B50	
	63	S801S-B63	180		63	S803S-B63	380
	80	S801S-B80	180		80	S803S-B80	480
100	S801S-B100	180	100	S803S-B100	480		
125	S801S-B125	180	125	S803S-B125	550		
2	10	S802S-B10	260	4	10	S804S-B10	450
	13	S802S-B13			13	S804S-B13	
	16	S802S-B16			16	S804S-B16	
	20	S802S-B20			20	S804S-B20	
	25	S802S-B25			25	S804S-B25	
	32	S802S-B32			32	S804S-B32	
	40	S802S-B40			40	S804S-B40	
	50	S802S-B50			50	S804S-B50	
	63	S802S-B63	310		63	S804S-B63	510
	80	S802S-B80	310		80	S804S-B80	660
100	S802S-B100	310	100	S804S-B100	660		
125	S802S-B125	380	125	S804S-B125	720		

Tripping characteristic B

IEC

690 VAC

50 kA

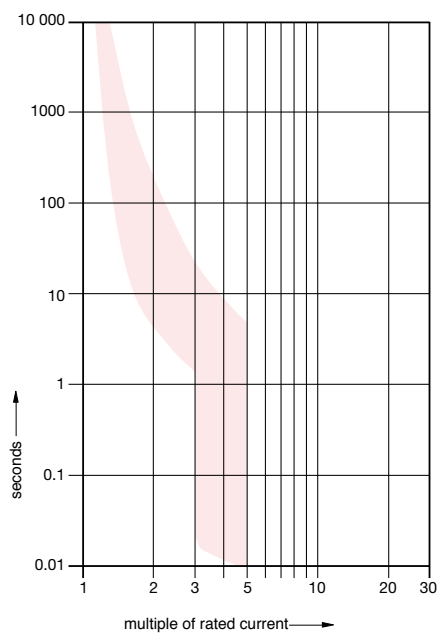
Resistive loads

- B Curve
- Designed for use in cable protection applications
- Example: control circuits, lighting

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



S800S-C, 690 VAC IEC

S800
Miniature
circuit breakers

C



S801S-C



S802S-C



S803S-C



S804S-C

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801S-C10	\$ 130	3	10	S803S-C10	\$ 340
	13	S801S-C13			13	S803S-C13	
	16	S801S-C16			16	S803S-C16	
	20	S801S-C20			20	S803S-C20	
	25	S801S-C25			25	S803S-C25	
	32	S801S-C32			32	S803S-C32	
	40	S801S-C40			40	S803S-C40	
	50	S801S-C50			50	S803S-C50	
	63	S801S-C63	140		63	S803S-C63	380
	80	S801S-C80	180		80	S803S-C80	510
100	S801S-C100	180	100	S803S-C100	510		
125	S801S-C125	180	125	S803S-C125	550		
2	10	S802S-C10	260	4	10	S804S-C10	450
	13	S802S-C13			13	S804S-C13	
	16	S802S-C16			16	S804S-C16	
	20	S802S-C20			20	S804S-C20	
	25	S802S-C25			25	S804S-C25	
	32	S802S-C32			32	S804S-C32	
	40	S802S-C40			40	S804S-C40	
	50	S802S-C50			50	S804S-C50	
	63	S802S-C63	310		63	S804S-C63	510
	80	S802S-C80	340		80	S804S-C80	680
100	S802S-C100	340	100	S804S-C100	680		
125	S802S-C125	390	125	S804S-C125	740		

Tripping characteristic C

IEC
690 VAC
50 kA

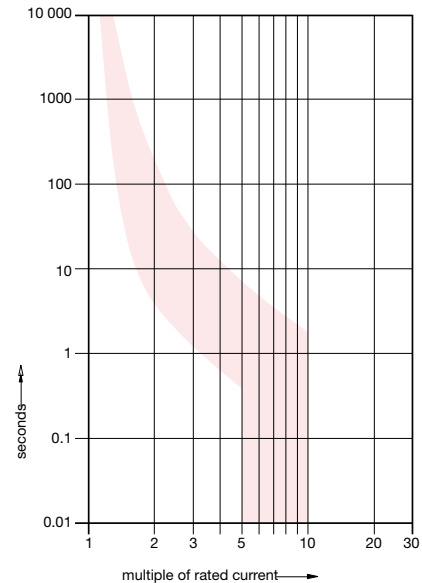
Resistive loads

- C Curve
- Designed for use with medium magnetic start up currents
- Example: lighting, control panels

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



S800S-D, 690 VAC IEC

D



S801S-D



S802S-D



S803S-D



S804S-D

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801S-D10	\$ 138	3	10	S803S-D10	\$ 390
	13	S801S-D13			13	S803S-D13	
	16	S801S-D16			16	S803S-D16	
	20	S801S-D20			20	S803S-D20	
	25	S801S-D25			25	S803S-D25	
	32	S801S-D32			32	S803S-D32	
	40	S801S-D40			40	S803S-D40	
	50	S801S-D50			50	S803S-D50	
	63	S801S-D63	188		63	S803S-D63	450
	80	S801S-D80	188		80	S803S-D80	560
100	S801S-D100	188	100	S803S-D100	560		
125	S801S-D125	188	125	S803S-D125	590		
2	10	S802S-D10	268	4	10	S804S-D10	530
	13	S802S-D13			13	S804S-D13	
	16	S802S-D16			16	S804S-D16	
	20	S802S-D20			20	S804S-D20	
	25	S802S-D25			25	S804S-D25	
	32	S802S-D32			32	S804S-D32	
	40	S802S-D40			40	S804S-D40	
	50	S802S-D50			50	S804S-D50	
	63	S802S-D63	318		63	S804S-D63	580
	80	S802S-D80	390		80	S804S-D80	710
	100	S802S-D100	390		100	S804S-D100	710
	125	S802S-D125	550		125	S804S-D125	770

Tripping characteristic D

IEC

690 VAC

50 kA

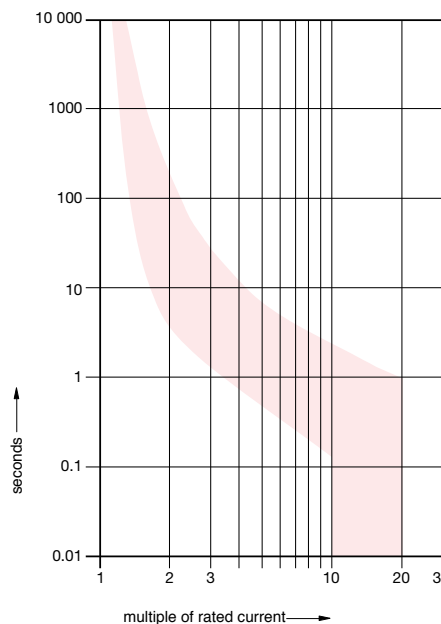
Inductive loads

- D Curve
- Designed for allowing higher in-rush currents during system start up
- Example: motors, transformers

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



S800S-K, 690 VAC IEC

S800
Miniature
circuit breakers

K



S801S-K



S802S-K



S803S-K



S804S-K

No. of poles	Rated current	Catalog number	List price	No. of poles	Rated current	Catalog number	List price
1	10	S801S-K10	\$ 140	3	10	S803S-K10	\$ 410
	13	S801S-K13			13	S803S-K13	
	16	S801S-K16			16	S803S-K16	
	20	S801S-K20			20	S803S-K20	
	25	S801S-K25			25	S803S-K25	
	32	S801S-K32			32	S803S-K32	
	40	S801S-K40			40	S803S-K40	
	50	S801S-K50			50	S803S-K50	
	63	S801S-K63	160		63	S803S-K63	430
	80	S801S-K80	180		80	S803S-K80	580
100	S801S-K100	180	100	S803S-K100	280		
125	S801S-K125	210	125	S803S-K125	620		
2	10	S802S-K10	280	4	10	S804S-K10	550
	13	S802S-K13			13	S804S-K13	
	16	S802S-K16			16	S804S-K16	
	20	S802S-K20			20	S804S-K20	
	25	S802S-K25			25	S804S-K25	
	32	S802S-K32			32	S804S-K32	
	40	S802S-K40			40	S804S-K40	
	50	S802S-K50			50	S804S-K50	
	63	S802S-K63	310		63	S804S-K63	580
	80	S802S-K80	390		80	S804S-K80	720
100	S802S-K100	390	100	S804S-K100	720		
125	S802S-K125	420	125	S804S-K125	820		

Tripping characteristic K

IEC
690 VAC
50 kA

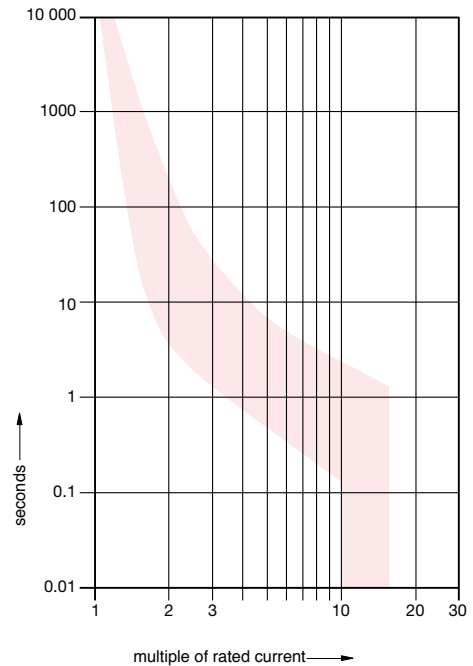
Inductive loads

- K Curve
- Designed for allowing higher in-rush currents during system start up
- Example: motors, transformers

Accessories & technical data

Accessories – See page 15.52

Technical data – See page 15.76 - 15.82



Accessories S800 & S800S



S800-SOR

Shunt trip

For remote tripping of breaker, a shunt trip device can be added to the MCB. The device opens the breaker after control voltage is applied.

Description (for field mounting, left side)	Catalog number	List price
Shunt operation release 24 VAC/DC	S800-SOR24	\$ 105
Shunt operation release 48...130 VAC/DC	S800-SOR130	105
Shunt operation release 110...250 VAC/DC	S800-SOR250	105

Undervoltage release

When control voltage drops below approximately 50 % of rated voltage, the UVR opens the breaker. The breaker can not be operated unless proper control voltage is first applied to the UVR coil.

Description	Catalog number	List price
Under voltage release 24...36 VAC/DC	S800-UVR36	\$ 135
Under voltage release 48...60 VAC/DC	S800-UVR60	135
Under voltage release 110...130 VAC/DC	S800-UVR130	135
Under voltage release 220...250 VAC/DC	S800-UVR250	135



S800-UVR

Auxiliary contacts

The auxiliary contacts will signal whether the breaker is in the ON or OFF position.

Description	Catalog number	List price
Auxiliary contact	S800-AUX	\$ 43

Bell alarm

The bell alarm includes a set of contacts that will only signal when the breaker has tripped. Typically the contacts would be connected to an alarm or bell to signal the operator that an overcurrent trip has occurred. The bell alarm also includes a test button for testing the alarm contacts without opening the breaker.

Description	Catalog number	List price
Bell alarm	S800-AUX/ALT	\$ 52



S800-AUX



S800-AUX/ALT

Accessories S800U & S800S

S800
Miniature
circuit breakers



S800-RT2125



S800-RD



S800-RHE-H



S800-RHE-EM



S800-RHE-S

Ring tongue adaptor

Description	Catalog number	List price
Ring terminal cable connection	S800-RT2125	\$ 12

Rotary operating mechanism

Allows "through the door" operation.

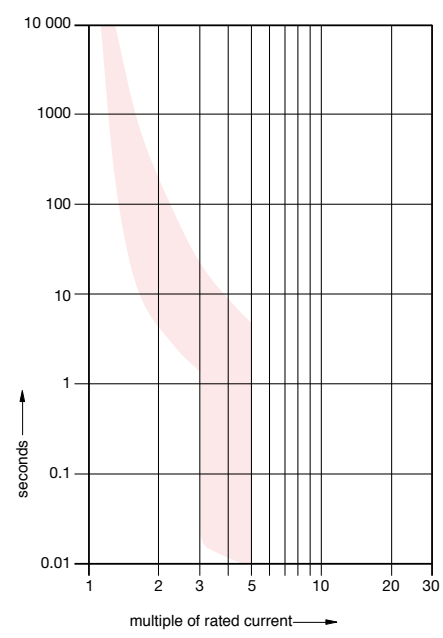
Description	Catalog number	List price
Handle mechanism	S800-RD	\$ 156

Description	Catalog number	List price
Grey rotary handle	S800-RHE-H	\$ 120

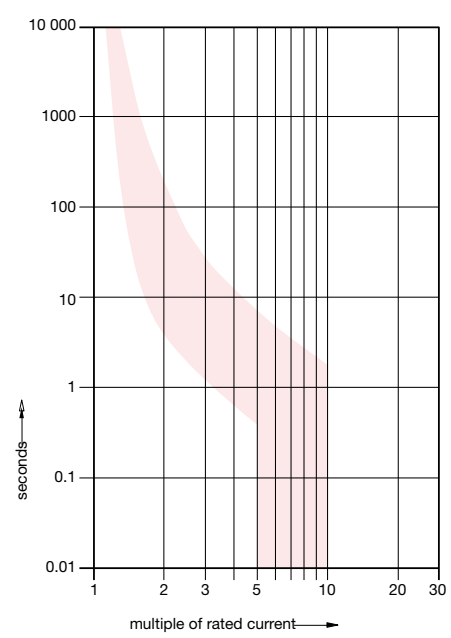
Description	Catalog number	List price
Red rotary handle	S800-RHE-EM	\$ 62

Description	Catalog number	List price
Shaft extension	S800-RHE-S	\$ 56

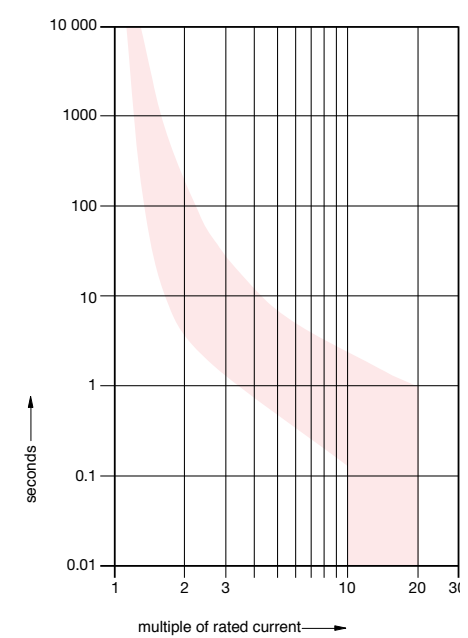
Tripping Characteristic B



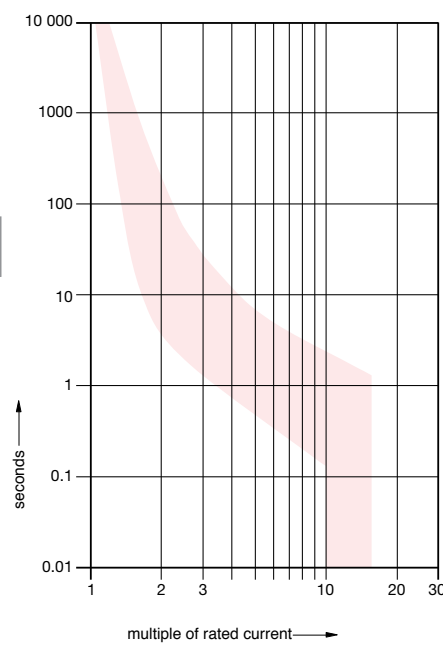
Tripping Characteristic C



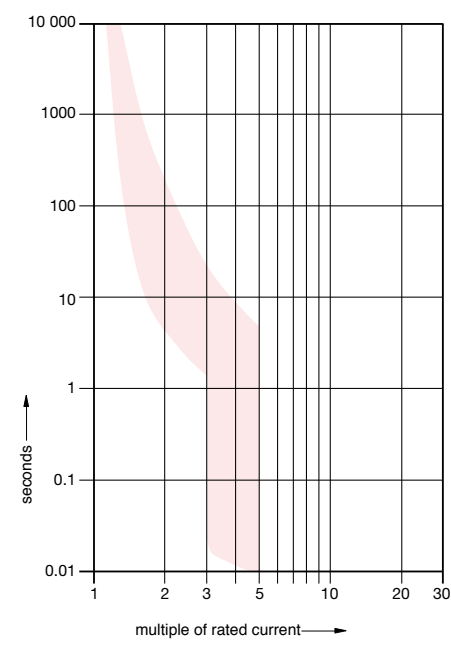
Tripping Characteristic D



Tripping Characteristic K



Tripping Characteristic Z



15

Technical data

S800S

IEC

S800
Miniature
circuit breakers

Internal resistance and power loss

Internal resistance per pole in mΩ, power loss per pole in W

Type	Rated current A	Device series B C D K mΩ	Power loss B C D K W
S800S	10	15.2	1.5
	13	12.1	2.0
	16	12.1	3.1
	20	8.7	3.5
	25	6.8	4.2
	32	3.1	3.1
	40	2.3	3.7
	50	1.7	4.3
	63	1.6	6.2
	80	1.0	6.4
	100	0.8	8.3
	125	0.6	9.4

Temperature derating

Max. operating current values depending on the ambient temperature for a circuit-breaker in load circuit of type B, C, D, & K characteristics.

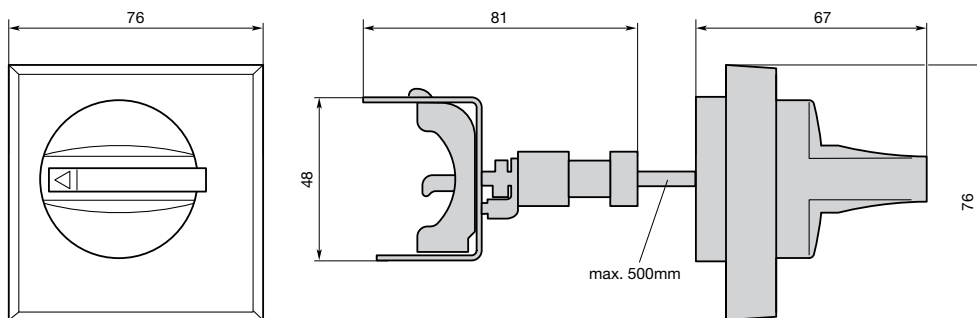
S800S-B, -C, -D	Ambient temperature T (°C/°F)										
In [A]	10/50	15/59	20/68	25/77	30/86	35/95	40/104	45/113	50/122	55/131	60/140
10	11.2	11.0	10.7	10.4	10.0	9.6	9.3	9.0	8.7	8.4	8.0
13	14.6	14.3	13.9	13.5	13.0	12.5	12.1	11.7	11.3	10.9	10.4
16	17.9	17.6	17.1	16.6	16.0	15.4	14.9	14.4	13.9	13.4	12.8
20	22.4	22.0	21.4	20.8	20.0	19.2	18.6	18.0	17.4	16.8	16.0
25	28.0	27.5	26.8	26.0	25.0	24.0	23.3	22.5	21.8	21.0	20.0
32	35.8	35.2	34.2	33.3	32.0	30.7	29.8	28.8	27.8	26.9	25.6
40	44.8	44.0	42.8	41.6	40.0	38.4	37.2	36.0	34.8	33.6	32.0
50	56.0	55.0	53.5	52.0	50.0	48.0	46.5	45.0	43.5	42.0	40.0
63	70.6	69.3	67.4	65.5	63.0	60.5	58.6	56.7	54.8	52.9	50.4
80	89.6	88.0	85.6	83.2	80.0	76.8	74.4	72.0	69.6	67.2	64.0
100	112.0	110.0	107.0	104.0	100.0	96.0	93.0	90.0	87.0	84.0	80.0
125	140.0	137.5	133.8	130.0	125.0	120.0	116.3	112.5	108.8	105.0	100.0

S800S-K	Ambient temperature T (°C/°F)										
In [A]	10/50	15/59	20/68	25/77	30/86	35/95	40/104	45/113	50/122	55/131	60/140
10	11.9	11.6	11.2	11.0	10.7	10.4	10.0	9.6	9.3	9.0	8.7
13	15.6	15.1	14.6	14.3	13.9	13.5	13.0	12.5	12.1	11.7	11.3
16	19.1	18.6	17.9	17.6	17.1	16.6	16.0	15.4	14.9	14.4	13.9
20	23.9	23.2	22.4	22.0	21.4	20.8	20.0	19.2	18.6	18.0	17.4
25	29.9	29.1	28.0	27.5	26.8	26.0	25.0	24.0	23.3	22.5	21.8
32	38.2	37.2	35.8	35.2	34.2	33.3	32.0	30.7	29.8	28.8	27.8
40	47.8	46.5	44.8	44.0	42.8	41.6	40.0	38.4	37.2	36.0	34.8
50	59.7	58.1	56.0	55.0	53.5	52.0	50.0	48.0	46.5	45.0	43.5
63	75.3	73.2	70.6	69.3	67.4	65.5	63.0	60.5	58.6	56.7	54.8
80	95.6	93.0	89.6	88.0	85.6	83.2	80.0	76.8	74.4	72.0	69.6
100	119.5	116.2	112.0	110.0	107.0	104.0	100.0	96.0	93	90.0	87.0
125	149.4	145.3	140.0	137.5	133.8	130.0	125.0	120.0	116.3	112.5	108.8

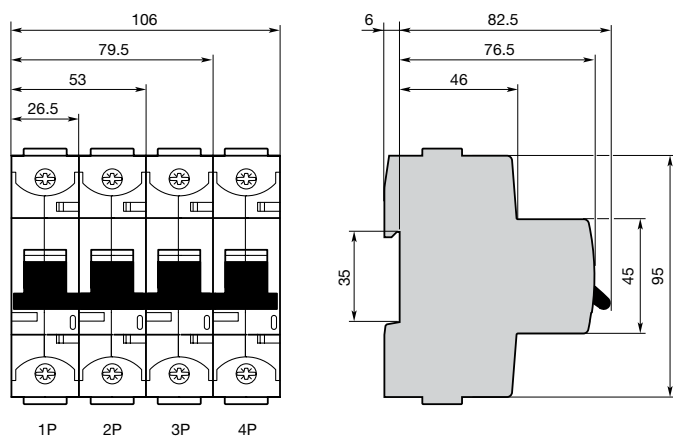
Approximate dimensions S800U & S800S

Dimension drawings in mm

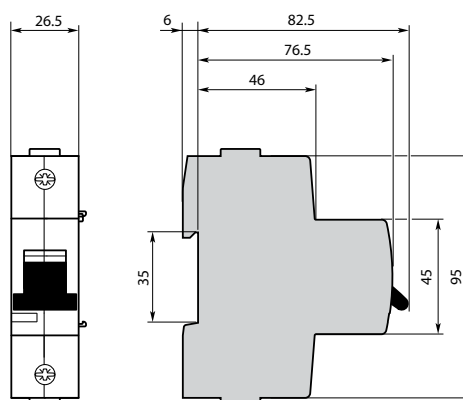
S800-RD & S800-RHE



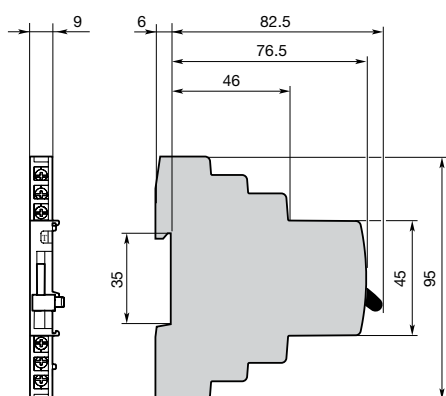
S800S & S800U



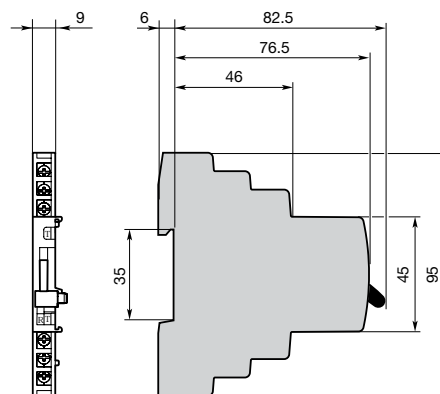
S800-SOR & S800-UVR



S800-AUX



S800-AUX/ALT



Technical data

S800U & S800S

Accessories

S800
Miniature
circuit breakers

Auxiliary contact S800-AUX

	S800-AUX
Usage category	AC15 400/2 A-UL AC15 240/ -UL DC13 250/0.55 A125 V/1.1A-IEC DC13 125 V/1.1A DC13 60 V/2A DC13 24 V/4A
Continuous thermal current I_n	6 A
Rated insulation voltage U_i	690 V
Number of contacts	2
Surge U_{test} (1.2/50µs)	6 kV
Degree of protection	3
Function of contact	Changeover contacts
Connection Cu	1 x 2.5 mm ² 2 x 1.5 mm ²
Tightening torque	1 Nm
Ensured contacts during shake test acc. to IEC 68-2-6	5g, 20 frequency cycle at 24 VAC/DC, 5mA brief interrupt <10 ms
AC/DC supply	any EN 60715
Mounting on DIN top hat rail	EN 60715 IP20
Type of protection	IP20
Permissible ambient temperature for operations	-25...+60 °C; -13 °F... 140 °F
Storage temperature	-40...+70 °C; -40 °F... 158 °F
Mechanical device service life	6000 switching cycles
I_{cu} with S450E	1000 A
Resistance to vibration	IEC 60068-2-27; IEC 60068-2; EN 61373 Cat.1/class B

Undervoltage release S800-UVR

	S800-UVR36	S800-UVR60	S800-UVR130	S800-UVR250
Rated voltage U_e	24...36 VAC/DC	48...60 VAC/DC	110...130 VAC/DC	220...250 VAC/DC
Operating range				
Operating opening	35...70% U_e			
Operating closing	85% U_e			
Rated insulation voltage U_i	690 V			
Coil pull in consumption	1 W, 14 vA	1 W, 25 vA	1 W, 41 vA	1 W, 91 vA
Rated frequency	DC; 50/60 Hz			
Protection degree	3			
Connection Cu	1...35 cable			
Tightening torque	min.3/ max.4 Nm			
AC/DC supply	any			
DIN top hat rail	EN 60715			
Type of protection	IP20 IP40 (only actuation side)			
Permissible ambient temperature of operations	-25...+60 °C; -13 °F... 140 °F			
Storage temperature	-40...+70 °C; -40 °F... 158 °F			
Resistance to vibration	IEC 60068-2-27; IEC 60068-2; EN61373 Cat.1/class B			

Technical data

S800U & S800S

Accessories

Combined auxiliary and bell alarm

Usage category	AC15 400/2A-UL AC15 240/6A-UL DC13 250/0.55A125V/1.1A-IEC DC13 125V/1.1A-IEC DC13 60V/2A DC13 24V/4A
Continuous thermal current I_n	6 A
Rated insulation voltage U_i	690 V
Number of contacts	2 (1x AUX, 1 x AUX/ALT)
Surge U_{test} (1.2/50µs)	6 kV
Degree of protection	3
Function of contact	Changeover contacts
Connection Cu	1 x 2.5 mm ² 2 x 1.5 mm ²
Tightening torque	1 Nm
Ensured contacts during shake test	5g, 20 frequency cycle
acc. to IEC 68-2-6	5...150...5Hz at 24VAC/DC, 5mA brief interrupt <10ms
AC/DC supply	any EN 60715
Mounting on DIN top hat rail	EN 60715
Type of protection	IP20
Permissible ambient temperature for operations	-25 °C... 60 °C; -13 °F... 140 °F
Storage temperature	-40 °C... 70 °C; -40 °F... 150 °F
mech. Device service life	6000 switching cycles
I_{cu} with S450E	1000 A
Resistance to vibration	IEC 60068-2-27; IEC 60068-2; EN 61373 Cat.1/class B

Shunt operation release – S800-SOR

	S800-SOR24	S800-SOR130	S800-SOR250	S800-SOR400
Rated voltage U _e	24 VAC/DC	48...130 VAC/DC	110...250 VAC/DC	220...250
Operating range	70... 110% U _e			
Rated insulation voltage U _i	690 V			
Coil pull in consumption	19.2 W/vA	On request		
Rated frequency	DC; 50/60 Hz			
Degree of protection	3			
Connection Cu	1...35 AWG			
Tightening torque	min.3/ max.4 Nm			
AC/DC supply	any			
DIN top hat rail	EN 60715			
Type of protection	IP20; IP40 (only actuation side)			
Permissible ambient temperature of operations	-25 °C... 60 °C; -13 °F... 140 °F			
Storage temperature	-40 °C... 70 °C; -40 °F... 158 °F			
Resistance to vibration	IEC 60068-2-27; IEC 60068-2; EN61373 Cat.1/class B			

Technical data **Backup** **S800S - S200 @ 230/400 V**

S800
Miniature
circuit breakers

L.	Char.	E.		S800S								
				B, C, D, K								
		I _{cu} [kA]	I _n [A]	50								
				25	32	40	50	63	80	100	125	
S200	B	6	6	50	50	50	50	50	50	50	50	
			10	50	50	50	50	50	50	50	50	
			13	50	50	50	50	50	50	50	50	
			16	50	50	50	50	50	50	50	50	
			20		50	50	50	50	50	50	50	
			25			50	50	50	50	50	50	
			32				50	50	50	50	50	
			40					50	50	50	50	
			50						50	50	50	
			63							50	50	

L.	Char.	E.		S800S								
				B, C, D, K								
		I _{cu} [kA]	I _n [A]	50								
				25	32	40	50	63	80	100	125	
S200	C	6	0.5...6	50	50	50	50	50	50	50	50	
			8	50	50	50	50	50	50	50	50	
			10	50	50	50	50	50	50	50	50	
			13	50	50	50	50	50	50	50	50	
			16	50	50	50	50	50	50	50	50	
			20		50	50	50	50	50	50	50	
			25			50	50	50	50	50	50	
			32				50	50	50	50	50	
			40					50	50	50	50	
			50						50	50	50	
			63							50	50	

L.	Char.	E.		S800S								
				B, C, D, K								
		I _{cu} [kA]	I _n [A]	50								
				25	32	40	50	63	80	100	125	
S200P	B	25	6...16	50	50	50	50	50	50	50	50	
			20		50	50	50	50	50	50	50	
			25			50	50	50	50	50	50	
			32				50	50	50	50	50	
		15	40					50	50	50	50	
			50						50	50	50	
			63							50	50	

L.	Char.	E.		S800S								
				B, C, D, K								
		I _{cu} [kA]	I _n [A]	50								
				25	32	40	50	63	80	100	125	
S200P	C	25	0.5...16	50	50	50	50	50	50	50	50	
			20		50	50	50	50	50	50	50	
			25			50	50	50	50	50	50	
			32				50	50	50	50	50	
		15	40					50	50	50	50	
			50						50	50	50	
			63							50	50	

LEGEND

E. = supply side
L. = load side
Back-up limit values are specified in kA

Technical data

Selectivity

S800S - S200 @ 230/400 V

L.	Char.	E.		S800S								
				B								
		I _{cu} [kA]		50								
S200	B	6	I _n [A]	25	32	40	50	63	80	100	125	
			6			0.4	0.5	0.7	1	1.5	2.6	
			10				0.4	0.6	0.7	1	1.4	
			13					0.5	0.7	0.9	1.3	
			16						0.7	0.9	1.3	
			20							0.9	1.3	
			25							0.9	1.3	
			32							0.8	1.1	
			40							0.8	1.1	
			50								1	
			63								0.9	

L.	Char.	E.		S800S								
				B								
		I _{cu} [kA]		50								
S200	C	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	3.3	T	T	T	T	T	T	T	
			1.6	0.6	1.3	T	T	T	T	T	T	
			2	0.4	0.7	1.3	T	T	T	T	T	
			3		0.4	0.6	0.7	1.1	2.6	T	T	
			4		0.4	0.6	0.7	1	1.7	3.1	T	
			6			0.4	0.5	0.7	1	1.5	2.6	
			8				0.4	0.6	0.7	1	1.4	
			10				0.4	0.6	0.7	1	1.4	
			13					0.5	0.7	0.9	1.3	
			16						0.7	0.9	1.3	
			20							0.9	1.3	
			25							0.9	1.3	
			32							0.8	1.1	
			40							0.8	1.1	
			50								1	
			63								0.9	

L.	Char.	E.		S800S								
				B								
		I _{cu} [kA]		50								
S200	D	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	0.8	4.5	T	T	T	T	T	T	
			1.6	0.5	1	2.3	T	T	T	T	T	
			2	0.3	0.5	0.7	2.3	T	T	T	T	
			3		0.4	0.5	0.7	1.2	2.5	T	T	
			4		0.4	0.4	0.7	1	1.7	3	T	
			6				0.6	0.8	1.2	2	3.6	
			8					0.7	0.9	1.3	2	
			10						0.9	1.3	2	
			13							1	1.5	
			16								1.5	
			20									
			25									
			32									
			40									
			50									
			63									

L.	Char.	E.		S800S								
				B								
		I _{cu} [kA]		50								
S200	K	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	0.8	5	T	T	T	T	T	T	
			1.6	0.5	1	2.1	T	T	T	T	T	
			2	0.3	0.5	0.7	2.1	T	T	T	T	
			3		0.4	0.5	0.7	1.2	2.5	T	T	
			4		0.4	0.4	0.7	1	1.7	3	T	
			6				0.6	0.8	1.2	2	3.6	
			8					0.7	0.9	1.3	2	
			10						0.9	1.3	2	
			13							1	1.5	
			16								1.5	
			20									
			25									
			32									
			40									
			50									
			63									

LEGEND

E. = supply side
L. = load side
Back-up limit values are specified in kA

Technical data **Selectivity** **S800S - S200 @ 230/400 V**

S800
Miniature
circuit breakers

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200	B	6	I _n [A]	25	32	40	50	63	80	100	125
			6		0.4	0.5	0.7	0.9	1.4	2.4	4.8
			10		0.3	0.4	0.5	0.7	0.9	1.3	2
			13		0.3	0.4	0.5	0.7	0.9	1.3	1.9
			16		0.3	0.4	0.5	0.7	0.9	1.3	1.9
			20			0.4	0.5	0.7	0.9	1.2	1.8
			25			0.4	0.5	0.7	0.9	1.2	1.8
			32				0.5	0.6	0.8	1	1.4
			40					0.6	0.8	1	1.4
			50						0.7	0.9	1.3
			63							0.9	1.2

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200	C	6	I _n [A]	25	32	40	50	63	80	100	125
			0.5	T	T	T	T	T	T	T	T
			1	T	T	T	T	T	T	T	T
			1.6	0.6	T	T	T	T	T	T	T
			2	0.5	1	T	T	T	T	T	T
			3	0.3	0.5	0.7	1.2	2.1	T	T	T
			4	0.3	0.4	0.7	1	1.5	2.6	T	T
			6		0.4	0.5	0.7	0.9	1.4	2.4	4.8
			8		0.3	0.4	0.5	0.7	0.9	1.3	2
			10		0.3	0.4	0.5	0.7	0.9	1.3	2
			13		0.3	0.4	0.5	0.7	0.9	1.3	1.9
			16		0.3	0.4	0.5	0.7	0.9	1.3	1.9
			20			0.4	0.5	0.7	0.9	1.2	1.8
			25			0.4	0.5	0.7	0.9	1.2	1.8
			32				0.5	0.6	0.8	1	1.4
			40					0.6	0.8	1	1.4
			50						0.7	0.9	1.3
			63							0.9	1.2

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200	D	6	I _n [A]	25	32	40	50	63	80	100	125
			0.5	T	T	T	T	T	T	T	T
			1	2.1	T	T	T	T	T	T	T
			1.6	0.8	2.3	T	T	T	T	T	T
			2	0.4	0.7	2.3	T	T	T	T	T
			3	0.3	0.5	0.7	1.2	2.2	T	T	T
			4	0.3	0.4	0.7	1	1.4	2.6	T	T
			6		0.4	0.6	0.8	1.1	1.8	3.2	T
			8			0.5	0.7	0.9	1.2	1.8	2.8
			10				0.7	0.9	1.2	1.8	2.8
			13					0.7	1	1.4	2
			16						1	1.4	2
			20							1	1.4
			25								1.4
			32								
			40								
			50								
			63								

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200	K	6	I _n [A]	25	32	40	50	63	80	100	125
			0.5	T	T	T	T	T	T	T	T
			1	2.1	T	T	T	T	T	T	T
			1.6	0.8	2.3	T	T	T	T	T	T
			2	0.4	0.7	2.3	T	T	T	T	T
			3	0.3	0.5	0.7	1.2	2.2	T	T	T
			4	0.3	0.4	0.7	1	1.4	2.6	T	T
			6		0.4	0.6	0.8	1.1	1.8	3.2	T
			8			0.5	0.7	0.9	1.2	1.8	2.8
			10				0.7	0.9	1.2	1.8	2.8
			13					0.7	1	1.4	2
			16						1	1.4	2
			20							1	1.4
			25								1.4
			32								
			40								
			50								
			63								

LEGEND

E. = supply side

L. = load side

Back-up limit values are specified in kA

Technical data

Selectivity

S800S - S200 @ 230/400 V

L.	Char.	E.		S800S								
				D								
		I _{cu} [kA]		50								
S200	B	6	I _n [A]	25	32	40	50	63	80	100	125	
			6	0.5	1	1.2	2	2.8	T	T	T	
			10	0.4	0.6	0.8	1.1	1.4	2.8	3.9	T	
			13	0.4	0.6	0.8	1.1	1.4	2.5	3.3	T	
			16		0.6	0.8	1.1	1.4	2.5	3.3	5.6	
			20			0.8	1.1	1.3	2.3	3	4.7	
			25			0.8	1.1	1.3	2.3	3	4.7	
			32				0.9	1.1	1.9	2.4	3.7	
			40					1.1	1.9	2.4	3.7	
			50						1.5	1.9	2.3	
			63							1.7	2.3	

L.	Char.	E.		S800S								
				D								
		I _{cu} [kA]		50								
S200	C	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	T	T	T	T	T	T	T	T	
			1.6	T	T	T	T	T	T	T	T	
			2	T	T	T	T	T	T	T	T	
			3	0.7	2.2	4.4	T	T	T	T	T	
			4	0.7	1.3	2.2	4.4	T	T	T	T	
			6	0.5	1	1.2	2	2.8	T	T	T	
			8	0.4	0.6	0.8	1.1	1.4	2.8	3.9	T	
			10	0.4	0.6	0.8	1.1	1.4	2.8	3.9	T	
			13	0.4	0.6	0.8	1.1	1.4	2.5	3.3	5.6	
			16		0.6	0.8	1.1	1.4	2.5	3.3	5.6	
			20			0.8	1.1	1.3	2.3	3	4.7	
			25			0.8	1.1	1.3	2.3	3	4.7	
			32				0.9	1.1	1.9	2.4	3.7	
			40					1.1	1.9	2.4	3.7	
			50						1.5	1.9	2.3	
			63							1.7	2.3	

L.	Char.	E.		S800S								
				D								
		I _{cu} [kA]		50								
S200	D	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	T	T	T	T	T	T	T	T	
			1.6	T	T	T	T	T	T	T	T	
			2	2.3	T	T	T	T	T	T	T	
			3	0.7	1.3	4.4	T	T	T	T	T	
			4	0.7	1	2.2	4.4	T	T	T	T	
			6	0.6	0.8	1.5	2.5	3.6	T	T	T	
			8	0.5	0.7	1.1	1.5	2	4	5.5	T	
			10	0.5	0.7	1.1	1.5	2	4	5.5	T	
			13		0.6	0.9	1.2	1.5	2.6	3.4	5.2	
			16			0.9	1.2	1.5	2.6	3.4	5.2	
			20				0.9	1.1	1.8	2.2	3.2	
			25					1.1	1.8	2.2	3.2	
			32						1.7	2	2.9	
			40							1.9	2.6	
			50								2.2	
			63									

L.	Char.	E.		S800S								
				D								
		I _{cu} [kA]		50								
S200	K	6	I _n [A]	25	32	40	50	63	80	100	125	
			0.5	T	T	T	T	T	T	T	T	
			1	T	T	T	T	T	T	T	T	
			1.6	T	T	T	T	T	T	T	T	
			2	2.3	T	T	T	T	T	T	T	
			3	0.7	1.3	4.4	T	T	T	T	T	
			4	0.7	1	2.2	4.4	T	T	T	T	
			6	0.6	0.8	1.5	2.5	3.6	T	T	T	
			8	0.5	0.7	1.1	1.5	2	4	5.5	T	
			10	0.5	0.7	1.1	1.5	2	4	5.5	T	
			13		0.6	0.9	1.2	1.5	2.6	3.4	5.2	
			16			0.9	1.2	1.5	2.6	3.4	5.2	
			20				0.9	1.1	1.8	2.2	3.2	
			25					1.1	1.8	2.2	3.2	
			32						1.7	2	2.9	
			40							1.9	2.6	
			50								2.2	
			63									

LEGEND

E. = supply side
L. = load side
Back-up limit values are specified in kA

Technical data

Selectivity

S800S - S200 @ 230/400 V

S800
Miniature
circuit breakers

L.	Char.	E.		S800S							
				B							
		I _{cu} [kA]		50							
S200P	B	25	I _n [A]	25	32	40	50	63	80	100	125
			6			0.4	0.5	0.7	1	1.5	2.6
			10				0.4	0.6	0.7	1	1.4
			13					0.5	0.7	0.9	1.3
			16						0.7	0.9	1.3
			20							0.9	1.3
		15	25							0.9	1.3
			32							0.8	1.1
			40							0.8	1.1
			50								1
			63								0.9

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200P	B	25	I _n [A]	25	32	40	50	63	80	100	125
			6			0.4	0.5	0.7	1	1.5	2.6
			10				0.4	0.6	0.7	1	1.4
			13					0.5	0.7	0.9	1.3
			16						0.7	0.9	1.3
			20							0.9	1.3
		15	25							0.9	1.3
			32							0.8	1.1
			40							0.8	1.1
			50								1
			63								0.9

L.	Char.	E.		S800S							
				B							
		I _{cu} [kA]		50							
S200P	C	25	I _n [A]	25	32	40	50	63	80	100	125
			0.5	T	T	T	T	T	T	T	T
			1	3.3	T	T	T	T	T	T	T
			1.6	0.6	1.3	T	T	T	T	T	T
			2	0.4	0.7	1.2	T	T	T	T	T
			3			0.6	0.7	1.1	2.6	8.8	T
			4			0.6	0.7	1	1.7	3.1	7
			6			0.4	0.5	0.7	1	1.5	2.6
			8				0.4	0.6	0.7	1	1.4
			10				0.4	0.6	0.7	1	1.4
			13					0.5	0.7	0.9	1.3
			16						0.7	0.9	1.3
			20							0.9	1.3
			25							0.9	1.3
		15	32							0.8	1.1
			40							0.8	1.1
			50								1
			63								0.9

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200P	C	25	I _n [A]	25	32	40	50	63	80	100	125
			0.5	T	T	T	T	T	T	T	T
			1	3.3	T	T	T	T	T	T	T
			1.6	0.6	1.3	T	T	T	T	T	T
			2	0.4	0.7	1.3	T	T	T	T	T
			3			0.4	0.6	0.7	1.1	2.6	8.8
			4			0.4	0.6	0.7	1	1.7	3.1
			6				0.4	0.5	0.7	1	1.5
			8					0.4	0.6	0.7	1
			10					0.4	0.6	0.7	1
			13						0.5	0.7	0.9
			16							0.7	0.9
			20								0.9
			25								0.9
		15	32							0.8	1.1
			40							0.8	1.1
			50								1
			63								0.9

L.	Char.	E.		S800S							
				B							
		I _{cu} [kA]		50							
S200P	K	25	I _n [A]	25	32	40	50	63	80	100	125
			0.2	T	T	T	T	T	T	T	T
			0.3	T	T	T	T	T	T	T	T
			0.5	T	T	T	T	T	T	T	T
			0.75	T	T	T	T	T	T	T	T
			1	0.8	5	T	T	T	T	T	T
			1.6	0.5	1	2.3	T	T	T	T	T
			2	0.3	0.5	0.7	2.1	T	T	T	T
			3		0.4	0.5	0.7	1.2	2.5	8.6	T
			4			0.4	0.4	0.7	1	1.7	3
			6				0.6	0.8	1.2	2	3.6
			8					0.7	0.9	1.3	2
			10						0.9	1.3	2
			13							1	1.5
			16								1.5
			20								
			25								
		15	32								
			40								
			50								
			63								

L.	Char.	E.		S800S							
				C							
		I _{cu} [kA]		50							
S200P	K	25	I _n [A]	25	32	40	50	63	80	100	125
			0.2	T	T	T	T	T	T	T	T
			0.3	T	T	T	T	T	T	T	T
			0.5	T	T	T	T	T	T	T	T
			0.75	T	T	T	T	T	T	T	T
			1	0.8	5	T	T	T	T	T	T
			1.6	0.5	1	2.3	T	T	T	T	T
			2	0.3	0.5	0.7	2.3	T	T	T	T
			3		0.4	0.5	0.7	1.2	2.5	8.6	T
			4			0.4	0.4	0.7	1	1.7	3
			6				0.6	0.8	1.2	2	3.6
			8					0.7	0.9	1.3	2
			10						0.9	1.3	2
			13							1	1.5
			16								1.5
			20								
			25								
		15	32								
			40								
			50								
			63								

LEGEND

E. = supply side

L. = load side

Back-up limit values are specified in kA

Technical data

Selectivity

S800S - S200P @ 230/400 V

L.	Char.	E.		S800S							
				D							
		I _{cu} [kA]		50							
		I _n [A]		25	32	40	50	63	80	100	125
S200P	B	25	6	0.5	1	1.2	2	2.8	9.9	21.3	T
			10	0.4	0.6	0.8	1.1	1.4	2.8	3.9	7.4
			13	0.4	0.6	0.8	1.1	1.4	2.5	3.3	5.6
			16		0.6	0.8	1.1	1.4	2.5	3.3	5.6
			20			0.8	1.1	1.3	2.3	3	4.7
			25			0.8	1.1	1.3	2.3	3	4.7
		15	32				0.9	1.1	1.9	2.4	3.7
			40					1.1	1.9	2.4	3.7
			50						1.5	1.9	2.3
			63							1.7	2.3

L.	Char.	E.		S800S							
				D							
		I _{cu} [kA]		50							
		I _n [A]		25	32	40	50	63	80	100	125
S200P	C	25	0.5	T	T	T	T	T	T	T	T
			1	T	T	T	T	T	T	T	T
			1.6	T	T	T	T	T	T	T	T
			2	T	T	T	T	T	T	T	T
			3	0.7	2.2	4.4	T	T	T	T	T
			4	0.7	1.3	2.2	4.4	7.7	T	T	T
			6	0.5	1	1.2	2	2.8	9.9	22	T
			8	0.4	0.6	0.8	1.1	1.4	2.8	3.9	7.4
			10	0.4	0.6	0.8	1.1	1.4	2.8	3.9	7.4
			13	0.4	0.6	0.8	1.1	1.4	2.5	3.3	5.6
			16		0.6	0.8	1.1	1.4	2.5	3.3	5.6
			20			0.8	1.1	1.3	2.3	3	4.7
			25			0.8	1.1	1.3	2.3	3	4.7
		15	32				0.9	1.1	1.9	2.4	3.7
			40					1.1	1.9	2.4	3.7
			50						1.5	1.9	2.3
			63							1.7	2.3

L.	Char.	E.		S800S							
				D							
		I _{cu} [kA]		50							
		I _n [A]		25	32	40	50	63	80	100	125
S200P	K	25	0.2	T	T	T	T	T	T	T	T
			0.3	T	T	T	T	T	T	T	T
			0.5	T	T	T	T	T	T	T	T
			0.75	T	T	T	T	T	T	T	T
			1	T	T	T	T	T	T	T	T
			1.6	T	T	T	T	T	T	T	T
		15	2	2.3	T	T	T	T	T	T	T
			3	0.7	1.3	4.4	T	T	T	T	T
			4	0.7	1	2.2	4.4	7.7	T	T	T
			6	0.6	0.8	1.5	2.5	3.6	12.1	24.2	T
			8	0.5	0.7	1.1	1.5	2	4	5.5	9.9
			10	0.5	0.7	1.1	1.5	2	4	5.5	9.9
			13		0.6	0.9	1.2	1.5	2.6	3.4	5.2
			16			0.9	1.2	1.5	2.6	3.4	5.2
			20				0.9	1.1	1.8	2.2	3.2
			25						1.8	2.2	3.2
			32						1.7	2	2.9
			40							1.9	2.6
			50								2.2
			63								

LEGEND

E. = supply side

L. = load side

Back-up limit values are specified in kA

Technical data

Selectivity

S800S - S280 @ 230/400 V

S800
Miniature
circuit breakers

L.	Char.	E.		S800S							
				B, C, D, K							
		I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	125
S280	B	10	6	50	50	50	50	50	50	50	50
			10	50	50	50	25	20	16	16	16
			13	50	50	50	25	20	16	16	16
		25	16	50	50	50	25	20	16	16	16
			20		50	50	25	20	16	16	16
			25			50	25	20	16	16	16
			32				25	20	16	16	16
		15	40					20	16	16	16
			50						16	16	16
		10	63							16	16

L.	Char.	E.		S800S							
				B, C, D, K							
		I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	125
S400E	B	6	6	50	50	50	50	50	50	50	50
			10	50	50	50	50	50	50	50	50
			13	50	50	50	50	50	50	50	50
			16	50	50	50	50	50	50	50	50
			20		50	50	50	50	50	50	50
			25			50	50	50	50	50	50
			32				50	50	50	50	50
			40					50	50	50	50
			50						50	50	50
			63							50	50

L.	Char.	E.		S800S							
				B, C, D, K							
		I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	125
S280	C	10	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	50
			8	50	50	50	25	20	16	16	16
		25	10	50	50	50	25	20	16	16	16
			13	50	50	50	25	20	16	16	16
			16	50	50	50	25	20	16	16	16
			20		50	50	25	20	16	16	16
			25			50	25	20	16	16	16
			32				25	20	16	16	16
		15	40					20	16	16	16
			50						16	16	16
		10	63							16	16

L.	Char.	E.		S800S							
				B, C, D, K							
		I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	125
S400E	C	6	0.5...6	50	50	50	50	50	50	50	50
			8	50	50	50	50	50	50	50	50
			10	50	50	50	50	50	50	50	50
			13	50	50	50	50	50	50	50	50
			16	50	50	50	50	50	50	50	50
			20		50	50	50	50	50	50	50
			25			50	50	50	50	50	50
			32				50	50	50	50	50
			40					50	50	50	50
			50						50	50	50
			63							50	50

L.	Char.	E.		S800S							
				B, C, D, K							
		I _{cu} [kA]	I _n [A]	25	32	40	50	63	80	100	125
S280	K, Z	10	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	50
			8	50	50	50	25	20	16	16	16
		25	10	50	50	50	25	20	16	16	16
			13	50	50	50	25	20	16	16	16
			16	50	50	50	25	20	16	16	16
			20		50	50	25	20	16	16	16
			25			50	25	20	16	16	16
		15	32				25	20	16	16	16
			40					20	16	16	16
		10	50						16	16	16
			63							16	16

LEGEND

E. = supply side

L. = load side

Back-up limit values are specified in kA

