

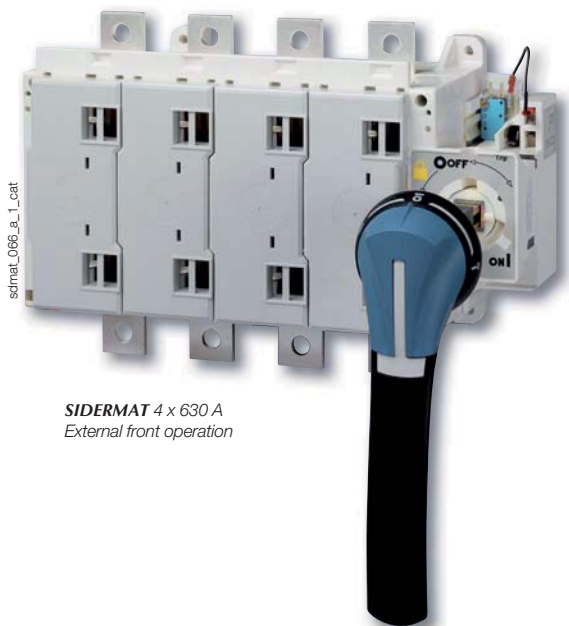


# SIDERMAT

## Load break switches for power distribution

Remotely trippable switch from 250 to 1800 A

Load break switches



*SIDERMAT 4 x 630 A  
External front operation*

### The solution for

- > Main switchboards.
- > Distribution panels.
- > Motor load break.



### Strong points

- > Remote tripping.
- > Safety thanks to visible double breaking.
- > Utilisation in harsh operating conditions.

### Check it out!

- > SIDERMAT combination and IDE are manually operated multipolar load break switches which can be tripped remotely.

## Function

SIDERMAT are manually operated 3 or 4 pole load break switches with visible breaking and a remote tripping function.

They make and break under load conditions and provide safety isolation for any low voltage circuit.

The tripping function is used to provide the following functions:

- personal protection against insulation faults when utilised in combination with toroids and differential relays,
- protection against overloads when utilised in combination with CTs and thermal relays,

Available with integrated fuse protection, the SIDERMAT combination provides protection against short-circuits (see "SIDERMAT combination" on page 230).

## Advantages

### Remote tripping

Disconnection by a shunt trip device enables the power to the installation to be switched off with a remote pushbutton.

### Safety thanks to visible double breaking

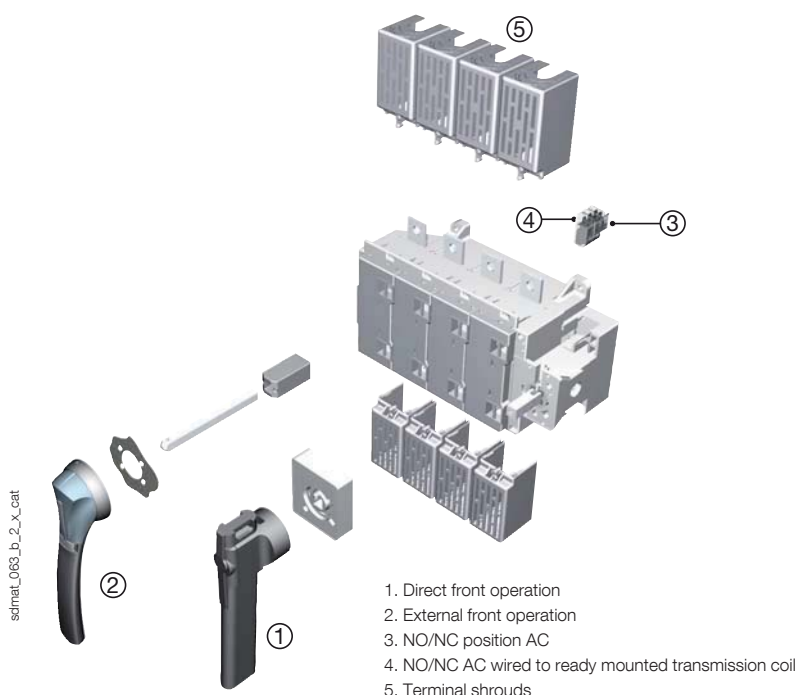
SIDERMATs are double breaking devices with visible contacts which provide a clear and secure display of the contact positions.

### Utilisation in harsh operating conditions

By lowering the current via a limiting resistor, a SIDERMAT fitted with an undervoltage coil may be used in continuous processes or exposed to high ambient temperatures.

## Functional diagram

For further details see the installation instructions supplied with the product.



1. Direct front operation
2. External front operation
3. NO/NC position AC
4. NO/NC AC wired to ready mounted transmission coil
5. Terminal shrouds

## References

### Front operation - Switch body with a shunt trip coil 230 VAC

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact position	Auxiliary contact tripping	Terminal shrouds	Terminal screens	Inter phase barrier	
250 A	3 P	3500 3026	Black 3999 6203	S3 type Black IP55 1431 3511 <sup>(1)</sup>	200 mm 1401 1520 320 mm 1401 1532 <sup>(1)</sup>	1 <sup>st</sup> contact NO/NC 3999 0051 2 <sup>nd</sup> contact NO/NC 3999 0052	1 contact NO/NC 3999 0031	3 P 3998 3040 <sup>(2)</sup> 4 P 3998 4040 <sup>(2)</sup>			
	4 P	3500 4026									
400 A	3 P	3500 3041									
	4 P	3500 4041									
630 A	3 P	3500 3064									
	4 P	3500 4064									
800 A	3 P	3500 3081		S3 type Red/Yellow IP55 1432 3511					3 P 3998 3063 <sup>(2)</sup> 4 P 3998 4063 <sup>(2)</sup>		
	4 P	3500 4081									
1250 A	3 P	3500 3121								3 P 2998 3120 <sup>(2)</sup> 4 P 2998 4120 <sup>(2)</sup>	3 P 2998 0003 4 P 2998 0004
	4 P	3500 4121									
1600 A	3 P	3500 3161									
	4 P	3500 4161									
1800 A	3 P	3500 3180								included	
	4 P	3500 4180									

(1) Standard.

(2) Top/bottom.

### Side operation - Switch body with a shunt trip coil 230 VAC

Rating (A)	No. of poles	Switch body	Direct handle	External handle	Shaft for external handle	Auxiliary contact position	Auxiliary contact tripping	Terminal shrouds	Terminal screens	Inter phase barrier								
250 A	3 P	3505 3026	Black 3999 6012 <sup>(1)</sup> Red 3999 6013	S3 type Black IP55 1435 3511 <sup>(1)</sup>	200 mm 1403 1520	1 <sup>st</sup> contact NO/NC 3999 0051 2 <sup>nd</sup> contact NO/NC 3999 0052	1 contact NO/NC 3999 0031	3 P 3998 3040 <sup>(2)</sup> 4 P 3998 4040 <sup>(2)</sup>										
	4 P	3505 4026																
400 A	3 P	3505 3041																
	4 P	3505 4041																
630 A	3 P	3505 3064									S3 type Red IP55 1436 3511					3 P 3998 3063 <sup>(2)</sup> 4 P 3998 4063 <sup>(2)</sup>		
	4 P	3505 4064																
800 A	3 P	3505 3081								3 P 2998 3120 <sup>(2)</sup> 4 P 2998 4120 <sup>(2)</sup>	3 P 2998 0003 4 P 2998 0004							
	4 P	3505 4081																
1250 A	3 P	3505 3121																
	4 P	3505 4121																
1600 A	3 P	3505 3161																
	4 P	3505 4161																
1800 A	3 P	3505 3180								included								
	4 P	3505 4180																

(1) Standard.

(2) Top/bottom.

# SIDERMAT

Load break switches for power distribution

Remotely trippable switch from 250 to 1800 A

## Accessories

### Door interlocked external operation

For front operation				
Rating (A)	Handle	Handle colour	External IP <sup>(1)</sup>	Reference
250 ... 1800	S3 type	Black	IP55	1431 <b>3511</b> <sup>(2)</sup>
250 ... 1800	S3 type	Red/Yellow	IP55	1432 <b>3511</b>

(1) IP: protection degree according to IEC 60529 standard.

(2) Standard.

For external side operation				
Rating (A)	Handle	Handle colour	External IP <sup>(1)</sup>	Reference
250 ... 1800	S3 type	Black	IP55	1435 <b>3511</b> <sup>(2)</sup>
250 ... 1800	S3 type	Red	IP55	1436 <b>3511</b>

(1) IP: protection degree according to IEC 60529 standard.

(2) Standard.



S3 type handles

### Direct operation handle

For front operation		
Rating (A)	Handle colour	Reference
250 ... 1800	Black	3999 <b>6203</b>
250 ... 1800	Red	Please consult us

For external side operation		
Rating (A)	Handle colour	Reference
250 ... 1800	Black	3999 <b>6012</b>
250 ... 1800	Red	3999 <b>6013</b>



### Alternative S-type handle cover colours

#### Use

For single lever S3 type handles.

Other colours: Please consult us.

Colour	To be ordered in multiples of	Handle	Reference
Light grey	50	S3	1401 <b>0001</b>
Dark grey	50	S3	1401 <b>0011</b>



### S-type handle adapter

#### Use

Enables S-type handles to be fitted in place of existing older style Socomec handles. Adapter can be utilised as a spacer to increase the distance between the panel door and the handle lever.

#### Dimensions

Adds 12 mm to the depth.

Handle colour	To be ordered in multiples of	External IP <sup>(1)</sup>	Reference
Black	1	IP65	1493 <b>0000</b>

(1) IP: protection degree according to IEC 60529 standard.



### Shaft for external handle

#### Use

Standard lengths:

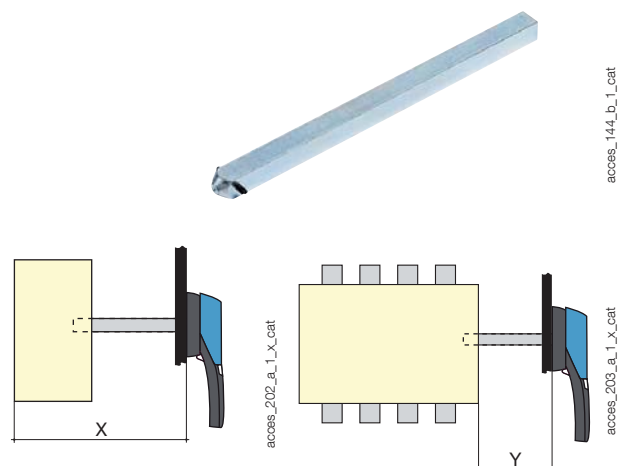
- 200 mm,
- 320 mm.

Other lengths: Please consult us.

For front operation			
Rating (A)	Dimension X (mm)	Shaft length (mm)	Reference
250 ... 630	275 ... 439	200 mm	1401 <b>1520</b>
250 ... 630	275 ... 559	320 mm	1401 <b>1532</b> <sup>(1)</sup>
800	296 ... 460	200 mm	1401 <b>1520</b>
800	296 ... 580	320 mm	1401 <b>1532</b> <sup>(1)</sup>
1250 ... 1800	291 ... 455	200 mm	1401 <b>1520</b>
1250 ... 1800	291 ... 575	320 mm	1401 <b>1532</b> <sup>(1)</sup>

(1) Standard.

For external side operation			
Rating (A)	Dimension Y (mm)	Shaft length (mm)	Reference
250 ... 1800	110 ... 279	200 mm	1403 <b>1520</b>



### Alternative tripping coil

#### Use

Omnipolar breaking remotely controlled by shunt trip or undervoltage voltage release coil.  
Note: the shunt trip coil must not be supplied for more than 5 s.

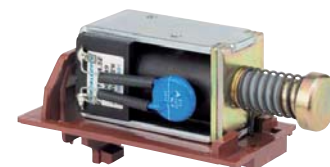
A 230 VAC shunt trip coil is fitted as standard to the switch body. To have an alternative coil, one of the references opposite must be added to the switch reference.

#### Examples for ordering

- SIDERMAT with shunt trip coil 230 VAC  
1 reference: SIDERMAT 250 A, 3 pole, front operation: 3500 3026.
- SIDERMAT fitted with a non-standard coil  
2 references: SIDERMAT 250 A, 3 pole, front operation, fitted with a 110 VAC undervoltage trip coil: 3500 3026 + 3991 3110.



Shunt trip coil



Undervoltage trip coil

access\_049\_a\_1\_cat

access\_050\_a\_1\_cat

#### Characteristics

##### Shunt trip coil

Alternating voltage (V) (+5% to -20%) <sup>(1)</sup>	24	48	110	230	400
Consumption on inrush (VA)	80	100	100	120	120
Direct voltage (V) (+5% to -20%)	12	24	48	110	220
Consumption on inrush (W)	80	100	100	120	120

<sup>(1)</sup> Note: The shunt trip coil VAC must not be supplied for more than 5 s. A shunt trip coil is suited for the standard device.

##### Undervoltage AC trip coil

Alternating voltage (V) (+5% to -10%)	24	48	110	230	400
Permanent consumption (VA)	13	13	13	13	20
Consumption on inrush (VA)	13	13	13	13	20
Minimum maintaining voltage (V)	15	25	60	140	200

##### Undervoltage DC trip coil

Direct voltage (V) (+5% to -10%)	12	24	48	110	220
Permanent consumption (W)	13	13	13	13	13
Consumption on inrush (W)	13	13	13	13	13
Minimum maintaining voltage (V)	6	15	25	60	140

##### Delayed undervoltage trip coil

Voltage	Time (ms)	Reference
230 VAC	430	3993 3230 <sup>(1)</sup>
400 VAC	410	3993 3400 <sup>(1)</sup>

<sup>(1)</sup> To be ordered at the same time as the switch.

#### References

Shunt trip coil Voltage	Replacement tripping coil Reference	Alternative factory fitted coil Reference
24 VAC	3990 1024	3991 1024 <sup>(1)</sup>
48 VAC	3990 1048	3991 1048 <sup>(1)</sup>
110 VAC	3990 1110	3991 1110 <sup>(1)</sup>
230 VAC	3990 1220	included
400 VAC	3990 1380	3991 1380 <sup>(1)</sup>
12 VDC		3991 2012 <sup>(1)</sup>
24 VDC	3990 2024	3991 2024 <sup>(1)</sup>
48 VDC	3990 2048	3991 2048 <sup>(1)</sup>
110 VDC	3990 2220	3991 2220 <sup>(1)</sup>
220 VDC		3991 2220 <sup>(1)</sup>

##### Undervoltage trip coil

Voltage	Replacement tripping coil Reference	Alternative factory fitted coil Reference
24 VAC	3990 3024	3991 3024 <sup>(1)</sup>
48 VAC	3990 3048	3991 3048 <sup>(1)</sup>
110 VAC	3990 3110	3991 3110 <sup>(1)</sup>
230 VAC	3990 3220	3991 3220 <sup>(1)</sup>
400 VAC	3990 3380	3991 3380 <sup>(1)</sup>
12 VDC	3990 4012	3991 4012 <sup>(1)</sup>
24 VDC	3990 4024	3991 4024 <sup>(1)</sup>
48 VDC	3990 4048	3991 4048 <sup>(1)</sup>
110 VDC	3990 4110	3991 4110 <sup>(1)</sup>
220 VDC	3990 4220	3991 4220 <sup>(1)</sup>

<sup>(1)</sup> To be ordered at the same time as the switch.

### Current-reducing resistor for undervoltage trip coil

#### Use

By limiting the current, the resistor reduces the effects on the undervoltage coil used in continuous processes, or processes exposed to high ambient temperatures.

Voltage	Reference
110 VAC	3999 3112
230 VAC	3999 3230
400 VAC	3999 3400
110 VDC	3999 4110

# SIDERMAT

Load break switches for power distribution

Remotely trippable switch from 250 to 1800 A

## Accessories (continued)

### Auxiliary contact

#### Use

Pre-break and signalling of positions 0 and I:  
1 to 2 NO/NC auxiliary contacts.

#### Coil tripping

1 to 2 NO/NC auxiliary contacts.

#### Connection to the control circuit

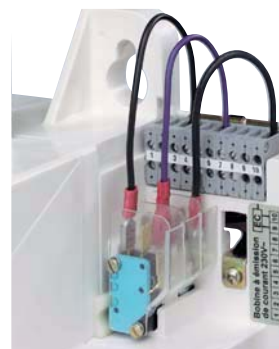
By 6.35 mm fast-on terminal.

#### Characteristics

NO/NC auxiliary contact: IP2X.

#### Electrical characteristics:

30 000 operations.



access\_048\_a\_1\_cat

#### Characteristics

NO/NC position contact					
Rating (A)	Current nominal (A)	Operating current I <sub>e</sub> (A)			
		250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
250 ... 1800	16	12	8	14	6

#### References

NO/NC position contact		
Rating (A)	Position AC	Reference
250 ... 1800	1 <sup>st</sup>	3999 0051
250 ... 1800	2 <sup>nd</sup>	3999 0052

NO/NC changeover contact, signalling coil tripping					
Rating (A)	Current nominal (A)	Operating current I <sub>e</sub> (A)			
		250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
250 ... 1800	16	12	8	12	2

NO/NC low level position contact		
Rating (A)	Position AC	Reference
250 ... 1800	1 <sup>st</sup>	3999 0111
250 ... 1800	2 <sup>nd</sup>	3999 0112

NO/NC contact signalling coil tripping		
Rating (A)	Position AC	Reference
250 ... 1800	1	3999 0031

### Terminal shrouds

#### Use

Top or bottom protection against direct contact with terminals or connection parts.

Perforations allow remote thermographic inspection without the need to remove the shrouds.

#### Advantage

Rating (A)	No. of poles	Position	Reference
250 ... 630	3 P	top or bottom	3998 3040
250 ... 630	4 P	top or bottom	3998 4040
800	3 P	top or bottom	3998 3063
800	4 P	top or bottom	3998 4063



access\_012\_a\_2\_cat

### Terminal screens

#### Use

Top or bottom protection against direct contact with terminals or connection parts.

Rating (A)	No. of poles	Position	Reference
1250 ... 1800	3 P	top or bottom	2998 3120
1250 ... 1800	4 P	top or bottom	2998 4120

### Inter-phase barrier

#### Use

Safety isolation between the terminals, essential for use at 690 VAC or in a polluted or dusty atmosphere.

Rating (A)	No. of poles	Reference
1250 ... 1600	3 P	2998 0003
1250 ... 1600	4 P	2998 0004
1800	3/4 P	included



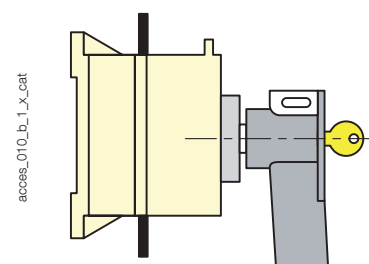
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## Handle key interlocking accessories

### Use

Locking in position 0 of the front or side operation handle:  
- using a padlock (not supplied) and factory integrated into the handle. Padlocking, in external front operation, locks the door.

- using RONIS 1104 A lock (key BC 3318) to be mounted directly on the padlockable handle,  
- locking using RONIS EL11AP lock (not supplied).



Lock RONIS 1104A

### Locking using RONIS EL11AP lock 1104 (supplied)

Rating (A)	Operation	Reference
250 ... 1800	direct	3999 8104

### Locking using RONIS EL11AP lock (not supplied)

Rating (A)	Operation	Reference
250 ... 630	direct	3999 6107
800 ... 1800	direct	3999 7007

### Locking using RONIS EL11AP lock (not supplied)

Rating (A)	Operation	Reference
250 ... 1800	external	1499 7701

## Cage terminals

### Use

Connection of bare copper cables onto the terminals (without lugs).

### Connections

Rating (A)	Flexible cable cross-section (mm <sup>2</sup> )	Rigid cable cross-section (mm <sup>2</sup> )	Flexible bar width (mm)	Stripped over (mm)
250	16 ... 185	16 ... 185	18	27
400	50 ... 240	50 ... 300	20	34
630	70 ... 300	70 ... 300	24	34

### Dimensions

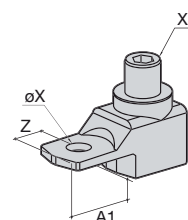
Rating (A)	A	A1	C	R	ØX	X1	Z
250	62	31.5	31.5	25	10.5	M16	14
400	71.5	32	38	32	10.5	M20	15
630	76.5	37	38	40	12.5	M20	15

### References

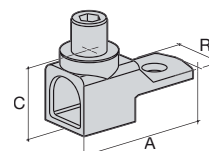
Rating (A)	No. of poles	Reference
250	3 P	5400 3025
250	4 P	5400 4025
400	3 P	5400 3040
400	4 P	5400 4040
630	3 P	5400 3063
630	4 P	5400 4063



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access\_091\_a\_1\_x\_cat



access\_092\_a\_1\_x\_cat

## Other specific accessories

- Connection accessories.
- Mounting plates for standard systems.
- Special construction available for specific environments.



# SIDERMAT

Load break switches for power distribution

Remotely trippable switch from 250 to 1800 A

## Characteristics according to IEC 60947-3

### 250 to 1800 A

Thermal current $I_{th}$ at 40°C	250 A	400 A	630 A	800 A	1250 A	1600 A	1800 A
Rated insulation voltage $U_i$ (V)	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage $U_{imp}$ (kV)	8	12	12	12	12	12	12

### Rated operational currents $I_e$ (A)

Rated voltage	Utilisation category	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>	A/B <sup>(1)</sup>
400 VAC	AC-22 A / AC-22 B	250/250	400/400	630/630	800/800	1250/1250	1600/1600	1600/1800
400 VAC	AC-23 A / AC-23 B	250/250	400/400	630/630	630/630	1250/1250	1600/1600	1600/1600
500 VAC	AC-22 A / AC-22 B	250/250	400/400	630/630	800/800	1250/1250	1600/1600	1600/1600
500 VAC	AC-23 A / AC-23 B	200/250	315/400	500/630	630/630	1000/1000	1250/1250	1250/1250
690 VAC <sup>(2)</sup>	AC-21 A / AC-21 B	250/250	400/400	630/630	800/800	1250/1250	1600/1600	1600/1600
690 VAC <sup>(2)</sup>	AC-22 A / AC-22 B	250/250	400/400	500/630	630/800	1000/1000	1250/1250	1250/1250
690 VAC <sup>(2)</sup>	AC-23 A / AC-23 B	200/250	315/400	400/500	500/500	800/800	1000/1000	1000/1000
400 VDC	DC-20 A / DC-20 B	250/250	400/400	630/630	800/800	1250/1250	1600/1600	1800/1800
400 VDC	DC-21 A / DC-21 B	250/250	400/400	630/630	800/800	1250/1250	1600/1600	1600/1600
400 VDC	DC-22 A / DC-22 B	250/250	400/400 <sup>(3)</sup>	630/630 <sup>(3)</sup>	800/800 <sup>(3)</sup>	1250/1250 <sup>(4)</sup>	1600/1600 <sup>(4)</sup>	1600/1600 <sup>(4)</sup>
400 VDC	DC-23 A / DC-23 B	200/250	315/400 <sup>(3)</sup>	500/630 <sup>(3)</sup>	630/800 <sup>(3)</sup>	1250/1250 <sup>(4)</sup>	1250/1250 <sup>(4)</sup>	1250/1250 <sup>(4)</sup>

### Operational power in AC-23 (kW)

At 400 VAC without pre-break in AC-23 (kW) <sup>(1)(5)</sup>	132/132	220/220	355/355	355/355	710/710	900/900	900/900
At 690 VAC without pre-break in AC-23 (kW) <sup>(1)(5)</sup>	185/220	295/400	400/475	475/475	750/750	900/900	900/900

### Reactive power (kvar)

At 400 VAC (kvar) <sup>(5)</sup>	115	185	290	365	575		
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### Fuse protected short-circuit withstand (kA rms prospective)

Prospective short-circuit (kA rms) <sup>(6)</sup>	100	100	100	100	100	120	120
Associated fuse rating (A) <sup>(6)</sup>	250	400	630	800	1250	2 x 800	2 x 900

### Short-circuit capacity (without protection)

Rated short-time withstand current 0.3 s. $I_{cw}$ (kA rms)	17	25	50	65	65	80	80
Rated peak withstand current (kA peak) <sup>(6)</sup>	30	45	55	80	100	120	120

### Connection

Minimum Cu cable cross-section (mm <sup>2</sup> )	95	185	2 x 150	2 x 185			4 x 240
Minimum Cu busbar cross-section (mm <sup>2</sup> )			2 x 30 x 5	2 x 40 x 5	2 x 60 x 5	2 x 80 x 5	
Maximum Cu cable cross-section (mm <sup>2</sup> )	240	240	2 x 300	2 x 300	4 x 185	6 x 240	8 x 240
Maximum Cu busbar width (mm)	40	40	50	63	100	100	100
Tightening torque min (Nm)	20	40	40		20	40	40

### Mechanical characteristics

Durability (number of operating cycles)	8000	8000	5000	5000	5000	3000	3000
Weight of a 3 pole device (kg)	6.5	7	8	11	14	19	21
Weight of a 4 pole device (kg)	7.5	8	9.5	13	16	21.5	23.5

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) With terminal shrouds or phase barrier.

(3) Poles cannot be juxtaposed.

(4) 4-pole device with 2 poles in series per polarity.

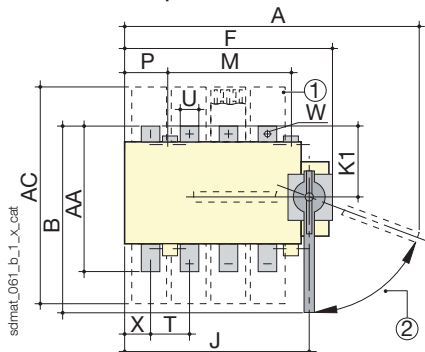
(5) The power value is given for information only, the current values vary from one manufacturer to another.

(6) For a rated operational voltage  $U_e = 400$  VAC.

## Dimensions - Front operation

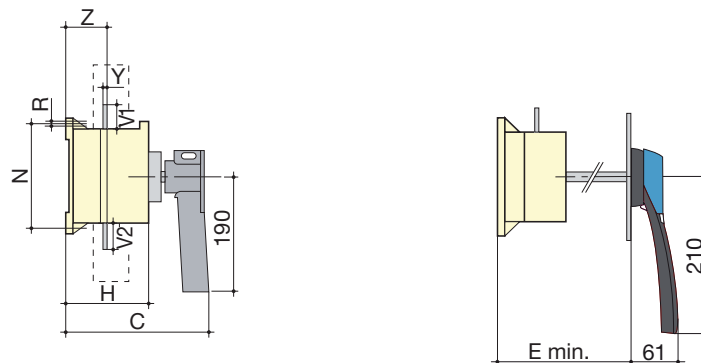
### SIDERMAT 250 to 800 A

Direct front operation



1. Terminal shrouds 2. Reset fuse 70°

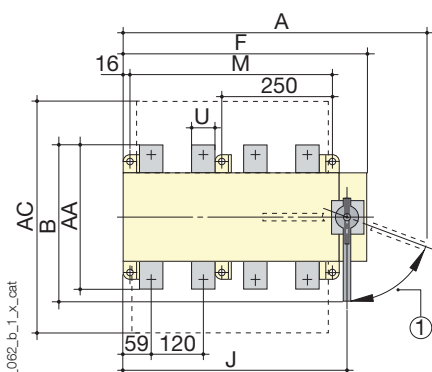
External front operation



Rating (A)	Overall dimensions					Terminal shrouds	Switch body					Switch mounting					Connection										
	A 3p.	A 4p.	W	C	E min		AC	F 3p.	F 4p.	H	J 3p.	J 4p.	K1	M	N	P 3p.	P 4p.	R	T	U	V1	V2	W	X 3p.	X 4p.	Y	Z
250	435	495	309	248	275	388	285	345	148	253	313	115	210	180	10	70	7	65	32	35	43	11	31	46	3	67	238
400	435	495	309	248	275	388	285	345	148	253	313	115	210	180	10	70	7	65	32	35	43	13	31	46	5	69	238
630	435	495	318.5	248	275	388	285	345	148	253	313	115	210	180	10	70	7	65	32	35	43	13	31	46	8	72	257
800	491	570	350	262	296	470	346	426	178	308	388	160	250	250	20	100	9	80	50	60	60	15	36	65	7	72	320

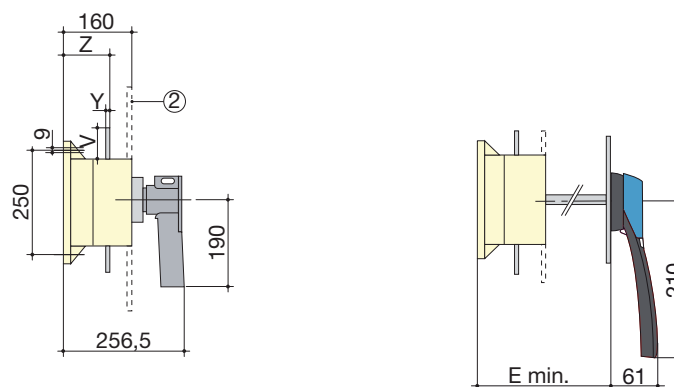
### SIDERMAT 1250 to 1800 A

Direct front operation



1. Reset fuse 70°  
2. Terminal screens

External front operation



Rating (A)	Overall dimensions				Terminal shrouds	Switch body				Switch mounting		Connection				
	A 3p.	A 4p.	W	E min		AC	F 3p.	F 4p.	J 3p.	J 4p.	M 3p.	M 4p.	U	V	Y	Z
1250	582	702	355	291	480	437	557	400	520	345	465	63	65	7	106	330
1600	582	702	370	291	479	437	557	400	520	345	465	80	80	15	110	360
1800	582	702	370	291	479	437	557	400	520	345	465	100	80	15	110	360



# SIDERMAT

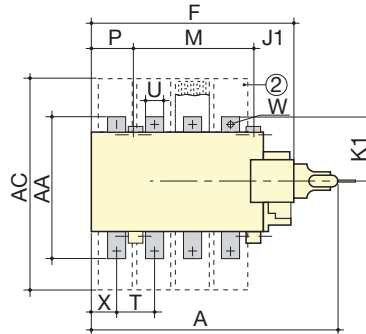
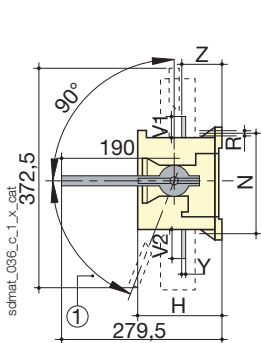
Load break switches for power distribution

Remotely trippable switch from 250 to 1800 A

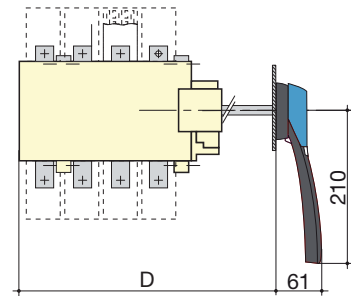
## Dimensions - Side operation

### SIDERMAT 250 to 800 A

Direct side operation



External side operation

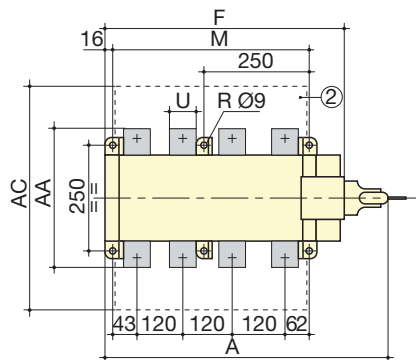
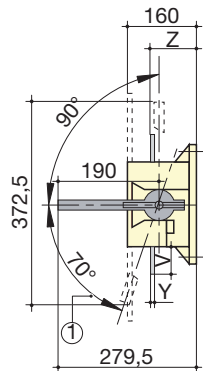


1. Reset fuse 70°
2. Terminal shrouds

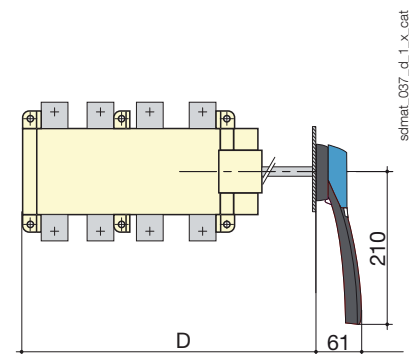
Rating (A)	Overall dimensions				Terminal shrouds	Switch body				Switch mounting				Connection										
	A 3p.	A 4p.	D 3p.	D 4p.	AC	F 3p.	F 4p.	H	K1	M	N	P 3p.	P 4p.	R	T	U	V1	V2	W	X 3p.	X 4p.	Y	Z	AA
250	365	425	357	417	388	285	345	148	115	210	180	10	70	7	65	32	35	43	11	31	46	3	67	238
400	365	425	357	417	388	285	345	148	115	210	180	10	70	7	65	32	35	43	13	31	46	5	69	238
630	365	425	357	417	388	285	345	148	129	210	180	10	70	7	65	45	49	49	13	31	46	8	72	257
800	421	501	413	493	470	346	426	178	160	250	250	20	100	9	80	50	60	60	15	36	65	7	72	320

### SIDERMAT 1250 to 1800 A

Direct side operation



External side operation

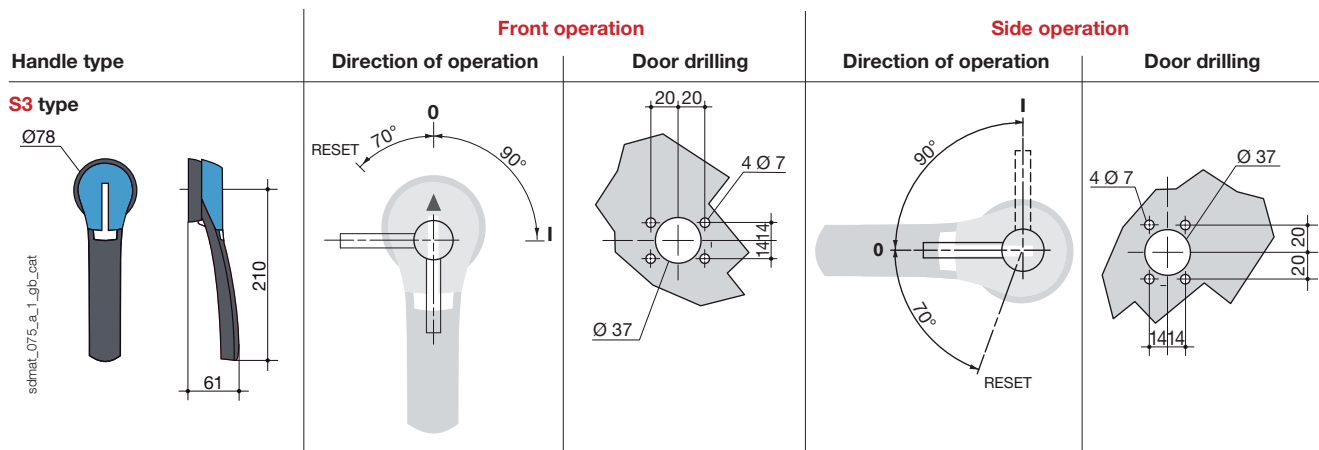


1. Reset fuse 70°
2. Terminal screens

Rating (A)	Overall dimensions				Terminal shrouds	Switch body		Switch mounting		Connection				
	A 3p.	A 4p.	D 3p.	D 4p.	AC	F 3p.	F 4p.	M 3p.	M 4p.	U	V	Y	Z	AA
1250	522	641	504	624	480	437	557	345	465	63	65	7	106	330
1600	522	641	504	624	479	437	557	345	465	80	80	15	110	360
1800	522	641	504	624	479	437	557	345	465	100	80	15	110	360

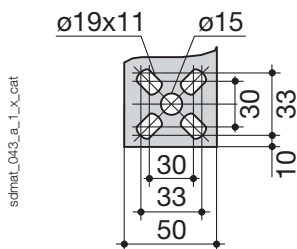
## Dimensions for external handles

### SIDERMAT 250 to 1800 A

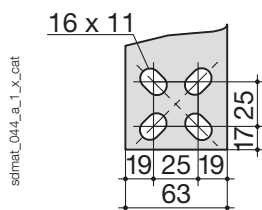


## Connection terminal

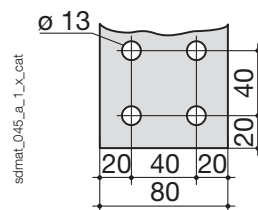
### SIDERMAT 800 A



### SIDERMAT 1250 A



### SIDERMAT 1600 A



### SIDERMAT 1800 A

