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**telergon**  
gorlan

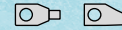


**S5F Series  
AC Changeover Switches**

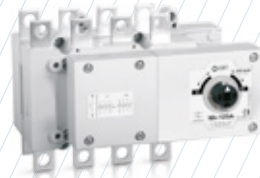
# S5F Changeover switch base mounting 3P - 3P+N

Size 0

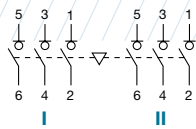
A 125|160|200



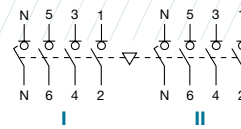
series  
**S5F**



	CODE-125A	CODE-160A	CODE-200A
3P	S5F01253PS0	S5F01603PS0	S5F02003PS0
3P + N	S5F01253NS0	S5F01603NS0	S5F02003NS0



3P



3P + N

## Technical information

According to IEC 60947-3



consult



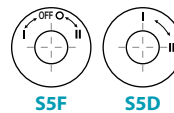
tests:

			125	160	200
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A	125	160	200
Rated insulation voltage	U <sub>i</sub>	V	1000	1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8	8	8
AC Rated operational current <sup>*(1)</sup> (Rated operational frequency 50/60 Hz)	I <sub>e</sub> U <sub>e</sub> 400V AC21A	A	125	160	200
		A	125	160	200
		A	125	160	160

\*<sup>(1)</sup> Other voltages and / or utilization categories. Please consult

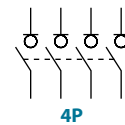
\*<sup>(2)</sup> Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)

			125	160	200
Rated breaking capacity	400V AC22	A	375	480	600
Rated making capacity	400V AC22	A	375	480	600
<b>Short - circuit behaviour</b>					
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)	13	13	13
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms	7	7	7
Number of mechanical operations (according to the standards, for other values please consult)	Cycles		8000	8000	8000
Maximum weight (3/4 poles)		Kg	1,8/2,1	1,8/2,1	1,9/2,2



S5F

S5D



4P

There are versions of changeover switches without OFF 0 position:  
S5F (I - II) = S5D \_\_\_\_\_, please consult

Also available 4P changeover switches under request, please consult



**Accessories**



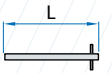
» Direct handle

CODE D5LSI01



» External handle included shaft<sup>\*(e1)</sup>

IP65  
CODE D5LLA01



» Shafts

Standard shaft included<sup>\*(e1)</sup>

L (mm)	P (mm)
177	163... 250,5

Shaft extensions

Type 1		
L (mm)	P (mm)	CODE
250	163... 323,5	DS-EP04

Type 2		
L (mm)	P (mm)	CODE
387	163... 460,5	DS-EP05



» Auxiliary contacts

1NO+1NC CODE 55F DS-AU11  
2NO+2NC CODE 55F DS-AU12

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Terminal shrouds<sup>\*(T)</sup>

UP 3P (1 unit)	DOWN 3P (1 unit)	UP OR DOWN 4P (1 unit)
DS-CU02	DS-CU03	DS-CU04
DS-CU05	DS-CU06	DS-CU07

(Only frontal side)



» Phase barrier<sup>\*(T)</sup>

3P	4P
DS-PB01	DS-PB02
DS-PB04	DS-PB03

(1 kit for input or output)

<sup>\*(T)</sup> These accessories aren't compatible with each other



» Bridging links

CODE D5LPC03 (4 units)



» Safety key lock devices

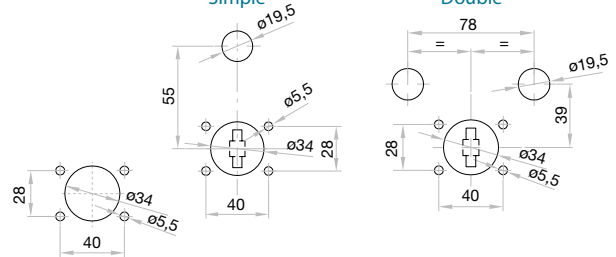
Simple CODE D5LCBB1  
Double CODE D5LCFB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and key lock device

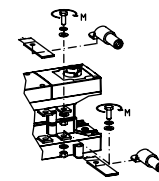
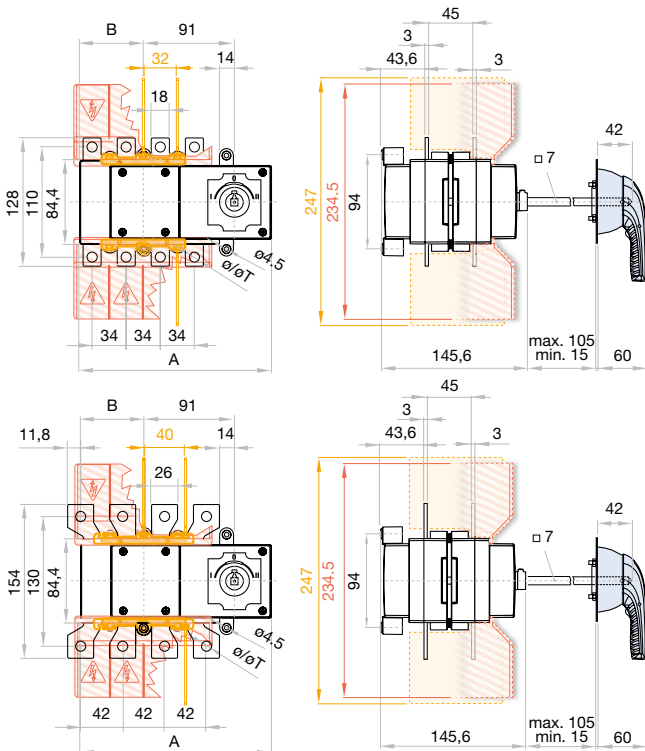
Simple

Double



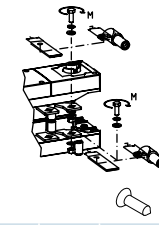
**Dimensions (mm)**

Door drilling for external handle



	A	B	ø T
125 A	181	192	53
160 A	181	192	64

S max (Cu)	H max (Cu)	L max (Cu)	M
mm <sup>2</sup>	mm	mm	Nxm
95	5	25	M8



	A	B	ø T
200 A	181	192	53
	181	192	64

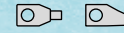
S max (Cu)	H max (Cu)	L max (Cu)	M
mm <sup>2</sup>	mm	mm	Nxm
120	5	30	M10

# S5F Changeover switch base mounting 3P - 3P+N

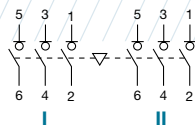
series S5F

Size 1

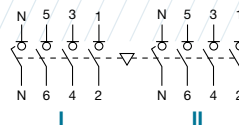
A 250|315|400



	CODE-250A	CODE-315A	CODE-400A
3P	S5F02503PR0	S5F03153PR0	S5F04003PC0
3P + N	S5F02503NR0	S5F03153NR0	S5F04003NC0



3P



3P + N

## Technical information

According to IEC 60947-3



consult



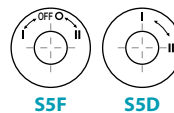
tests:

				250	315	400
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A		250	315	400
Rated insulation voltage	U <sub>i</sub>	V		1000	1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV		8	8	8
AC Rated operational current <sup>*(1)</sup> (Rated operational frequency 50/60 Hz)	U <sub>e</sub> 400V AC21A	A		250	315	400
	U <sub>e</sub> 400V AC22A	A		250	315	400
	U <sub>e</sub> 400V AC23A	A		250	315	400

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

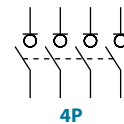
<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)

				250	315	400
Rated breaking capacity	400V AC23	A		2000	2520	3200
Rated making capacity	400V AC23	A		2500	3150	4000
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		20	20	20
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms		12	12	12
Number of mechanical operations (according to the standards, for other values please consult)		Cycles		8000	8000	5000
Maximum weight (3/4 poles)		Kg		5,5/5,8	5,5/5,8	5,7/6



SSF

SSD



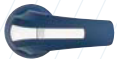
4P

There are versions of changeover switches without OFF 0 position:  
SSF (I - II) = SSD \_\_\_\_\_, please consult

Also available 4P changeover switches under request, please consult



Accessories



» Direct handle

CODE D5LLI12



» External handle included shaft\*(e1)

IP65

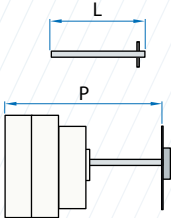
CODE D5LLA11



» Terminal protection

CODE DS-CU12

☞ (1 unit for input or output)



» Shafts

Standard shaft included \*(e1)

L (mm)	P (mm)
227	278... 426

Shaft extension

L (mm)	P (mm)	CODE
375	278... 574	DS-EP14



» Terminal shrouds

CODE DS-CU11

☞ (1 kit for input or output)



» Bridging links

CODE D5LPC12 (4 units)



» Auxiliary contacts

1NO+1NC CODE DS-AU11

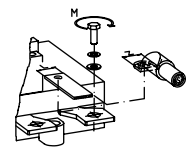
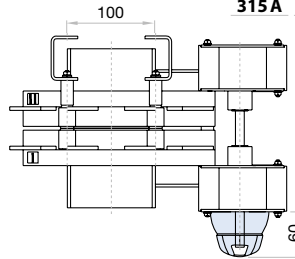
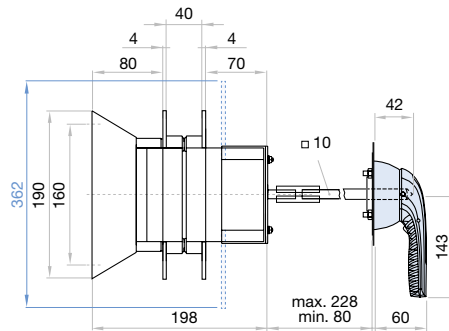
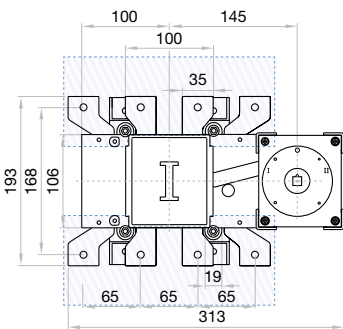
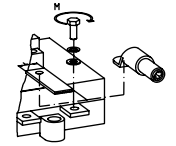
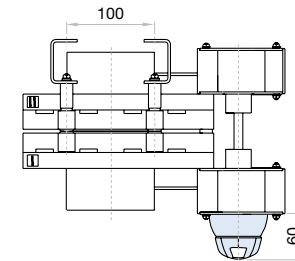
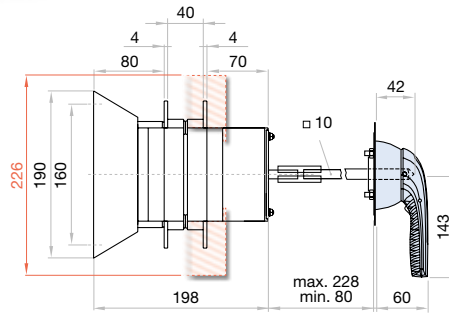
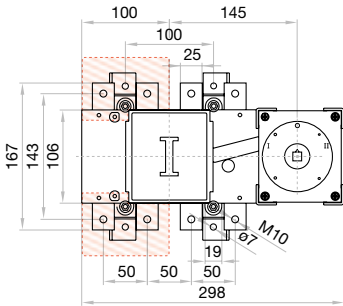
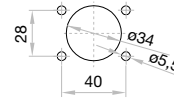
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.

Dimensions (mm)

Door drilling for external handle



S max (Cu)	H max (Cu)	L max (Cu)	T	M
mm <sup>2</sup>	mm	mm		Nxm
250 A	185	7	25	M10
315 A	185	7	25	M10



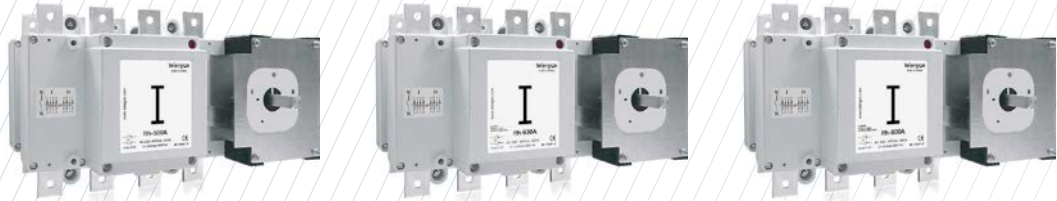
S max (Cu)	Z max	H max (Cu)	L max (Cu)	T	M
mm <sup>2</sup>		mm	mm		Nxm
400 A	240	44	7	40	M10

# S5F Changeover switch base mounting 3P - 3P+N

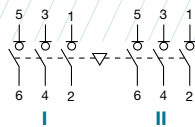
series S5F

Size 2

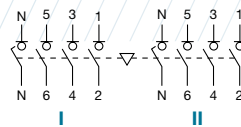
A 500|630|800



	CODE-500A	CODE-630A	CODE-800A
3P	S5F05003PR0	S5F06303PR0	S5F08003PC0
3P + N	S5F05003NR0	S5F06303NR0	S5F08003NC0



3P



3P + N

## Technical information

According to IEC 60947-3



consult



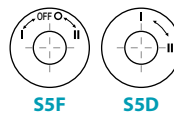
tests:

				500	630	800
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A		500	630	800
Rated insulation voltage	U <sub>i</sub>	V		1000	1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV		12	12	12
AC Rated operational current <sup>*(1)</sup> (Rated operational frequency 50 / 60 Hz)	U <sub>e</sub> 400V AC21A	A		500	630	800
	U <sub>e</sub> 400V AC22A	A		500	630	800
	U <sub>e</sub> 400V AC23A	A		500	630	800

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

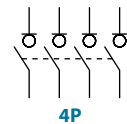
<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)

				500	630	800
Rated breaking capacity	400V AC23	A		4000	5000	6400
Rated making capacity	400V AC23	A		5000	6300	8000
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		26	26	26
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms		16	16	16
Number of mechanical operations (according to the standards, for other values please consult)	Cycles			5000	5000	3000
Maximum weight (3/4 poles)		Kg		12,3/13	12,3/13	12,3/13



SSF

SSD



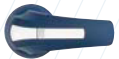
4P

There are versions of changeover switches without OFF 0 position:  
SSF (I - II) = SSD \_\_\_\_\_, please consult

Also available 4P changeover switches under request, please consult



Accessories



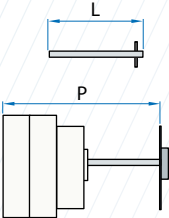
» Direct handle

CODE D5LLI22



» External handle included shaft\*(e1)

IP65  
CODE D5LLA21



» Shafts

Standard shaft included \*(e1)

L (mm)	P (mm)
239	342... 494

Shaft extension

L (mm)	P (mm)	CODE
345	342... 600	DS-EP23



» Terminal protection

CODE DS-CU21  
☞ (1 unit for input or output)



» Bridging links

CODE D5LPC22 (4 units)



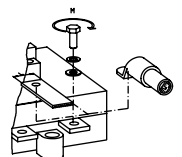
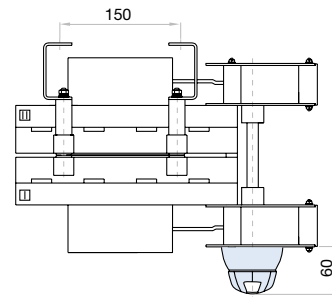
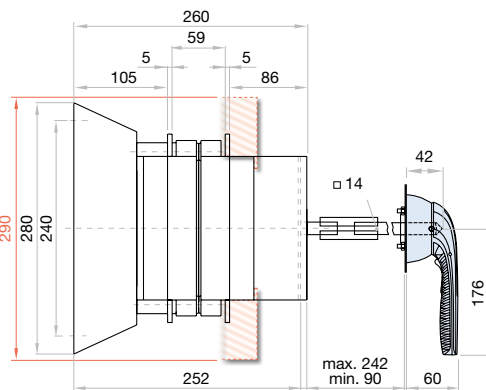
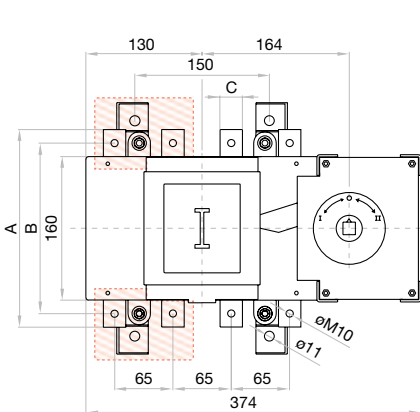
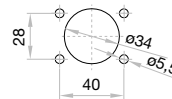
» Auxiliary contacts

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.

Dimensions (mm)

Door drilling for external handle



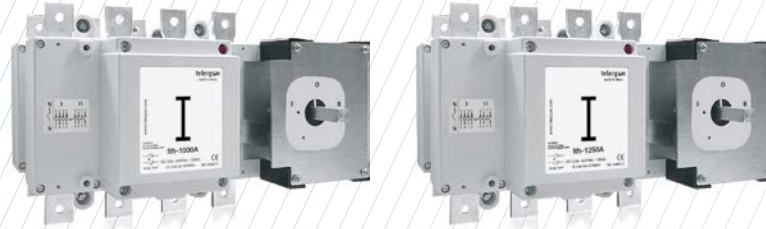
	A	B	C	S max (Cu) mm <sup>2</sup>	H max (Cu) mm	L max (Cu) mm	M
500 A	220	190	25	2x185	6	40	M10
630 A	236	206	30	2x240	2x5	40	24
800 A						50	

# S5F Changeover switch base mounting 3P - 3P+N

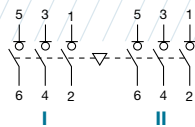
series  
**S5F**

Size 3

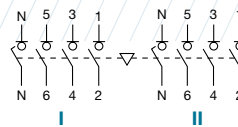
A 1000|1250



	CODE-1000A	CODE-1250A
3P	<b>S5F10003PC0</b>	<b>S5F12503PC0</b>
3P + N	<b>S5F10003NC0</b>	<b>S5F12503NC0</b>



3P



3P + N

## Technical information



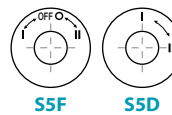
According to IEC 60947-3

				1000	1250
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A		1000	1250
Rated insulation voltage	U <sub>i</sub>	V		1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV		12	12
AC Rated operational current <sup>*(1)</sup> (Rated operational frequency 50 / 60 Hz)	U <sub>e</sub> 400V AC21A	A		1000	1250
	U <sub>e</sub> 400V AC22A	A		1000	1250
	U <sub>e</sub> 400V AC23A	A		1000	1000

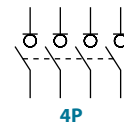
<sup>\*(1)</sup> Other voltages and / or utilization categories; please consult

<sup>\*(2)</sup> Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)

				1000	1250
Rated breaking capacity	400V AC23	A		8000	8000
Rated making capacity	400V AC23	A		10000	10000
<b>Short - circuit behaviour</b>					
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		60	60
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms		25	25
Number of mechanical operations (according to the standards, for other values please consult)	Cycles			3000	3000
Maximum weight (3/4 poles)		Kg		18,5/20	18,5/20



SSF SSD



4P

There are versions of changeover switches without OFF 0 position:  
SSF (I - II) = SSD \_\_\_\_\_, please consult

Also available 4P changeover switches under request, please consult



Accessories



» Direct handle

CODE D5LLI32



» External handle included shaft\*(e1)

IP65

CODE D5LLA31



» Terminal protection

CODE DS-CU31

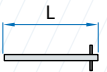
☞ (1 unit for input or output)



» Shafts

IP65

CODE D5LLA31



» Shafts

Standard shaft included \*(e1)

L (mm)	P (mm)
239	364... 516

Shaft extension

L (mm)	P (mm)	CODE
345	342... 622	DS-EP23



» Bridging links

CODE D5LPC32 (4 units)



» Auxiliary contacts

1NO+1NC CODE DS-AU11

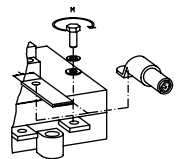
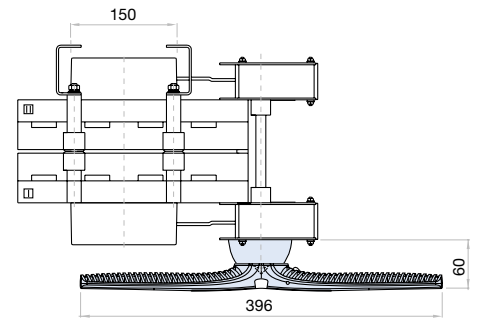
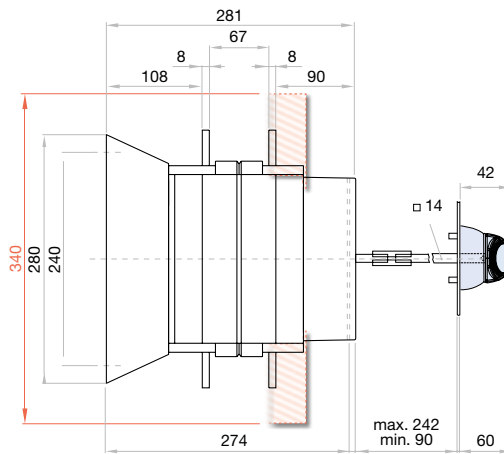
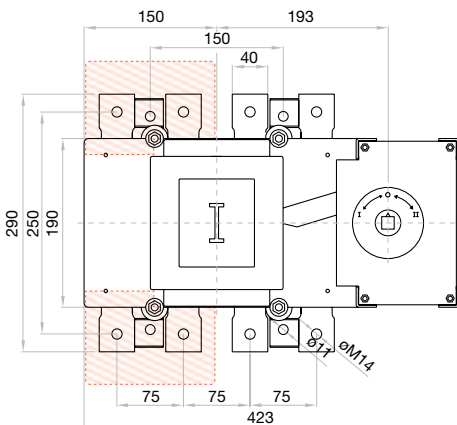
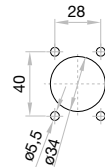
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.

Dimensions (mm)

Door drilling for external handle



	S max (Cu)	H max (Cu)	L max (Cu)	M
☞	mm <sup>2</sup>	mm	mm	Nxm
1000 A	2x300	2x10	50	M14
1250 A				45

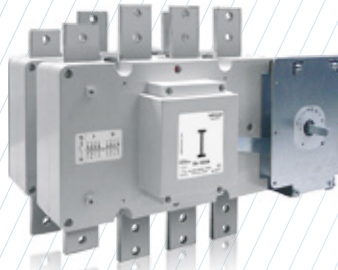
# S5F Changeover switch base mounting 3P - 3P+N

Size 4

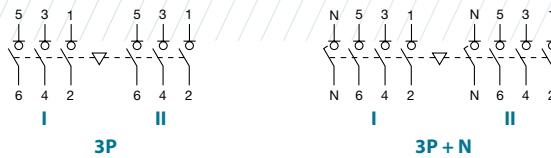
A 1600|1800|2000



series  
**S5F**



	CODE-1600A	CODE-1800A	CODE-2000A
3P	S5F16003PS0	S5F18003PS0	S5F20003PD0
3P + N	S5F16003NS0	S5F18003NS0	S5F20003ND0



## Technical information



consult

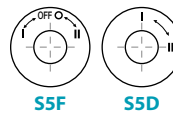
According to IEC 60947-3

			1600	1800	2000
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A	1600	1800	2000
Rated insulation voltage	U <sub>i</sub>	V	1000	1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV	12	12	12
AC Rated operational current <sup>*(1)</sup>	I <sub>e</sub> U <sub>e</sub> 400V AC21A	A	1600	1800	2000
(Rated operational frequency 50/60 Hz)	U <sub>e</sub> 400V AC22A	A	1600	1800	2000

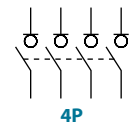
<sup>\*(1)</sup> Other voltages and /or utilization categories; please consult

<sup>\*(2)</sup> Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)

				1600	1800	2000
Rated breaking capacity	400V AC22	A		4800	5400	6000
Rated making capacity	400V AC22	A		4800	5400	6000
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		75	75	75
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms		50	50	50
Number of mechanical operations (according to the standards, for other values please consult)		Cycles		3000	3000	3000
Maximum weight (3/4 poles) (without bridging links)		Kg		42,9/47,3	42,9/47,3	42,9/47,3



There are versions of changeover switches without OFF 0 position:  
SSF (I + II) = SSD \_\_\_\_\_, please consult



Also available 4P changeover switches under request, please consult



Accessories



» Direct handle

CODE D5LLI32



» External handle included shaft\*(e1)

IP65

CODE D5LLA31



» Terminal shrouds

CODE DS-CU41

(1 kit for input or output, only front side)



» Bridging links\*(P2)

CODE D5LPC42 (4 units)



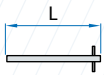
» Auxiliary contacts

1NO+1NC CODE DS-AU11

2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



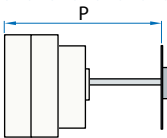
» Shafts

Standard shaft included \*(e1)

L (mm)	P (mm)
239	418... 573

Shaft extensions

Consult



» Safety key lock device

Simple CODE D5LCB41

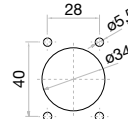
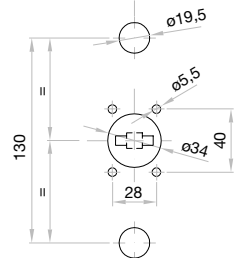
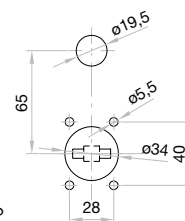
Double CODE D5LCF41

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and key lock device

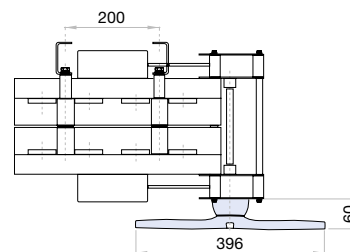
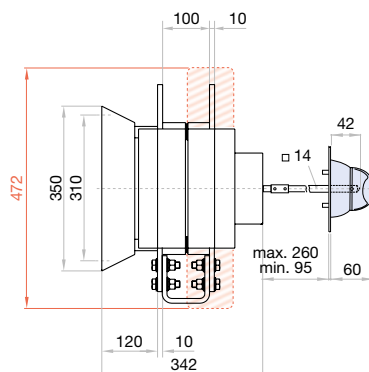
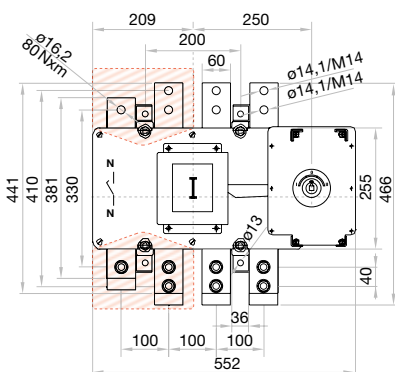
Simple

Double



Door drilling for external handle

Dimensions (mm)



	H max (Cu) mm	L max (Cu) mm	M	M
1600 A				
1800 A	2x10	80	M14	55
2000 A				

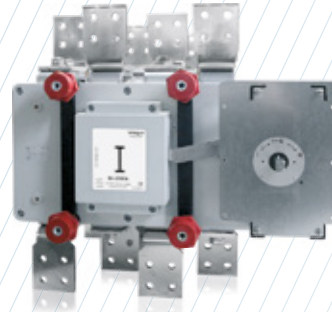
# S5F Changeover switch base mounting 3P - 3P+N

Size 5

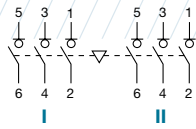
A 2000|2500|3150



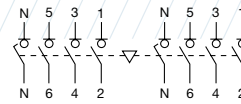
series  
**S5F**



	CODE-2000A	CODE-2500A	CODE-3150A
3P	S5F20003PP0	S5F25003PP0	S5F31503PP0
3P + N	S5F20003NP0	S5F25003NP0	S5F31503NP0



3P



3P + N

## Technical information



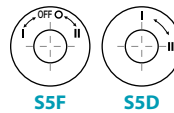
According to IEC 60947-3

			2000	2500	3150
Rated thermal current	I <sub>th</sub> in ambient at 40° C	A	2000	2500	3150
Rated insulation voltage	U <sub>i</sub>	V	1000	1000	1000
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8	8	8
AC Rated operational current <sup>*(1)</sup>	I <sub>e</sub> U <sub>e</sub> 400V AC21A	A	2000	2500	3150
(Rated operational frequency 50/60 Hz)	U <sub>e</sub> 400V AC22B	A	2000	2500	2500

<sup>\*(1)</sup> Other voltages and / or utilization categories; please consult

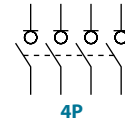
<sup>\*(2)</sup> Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)

				2000	2500	3150
Rated breaking capacity	400V AC22	A		6000	7500	9450
Rated making capacity	400V AC22	A		6000	7500	9450
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		100	100	100
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms		50	50	50
Number of mechanical operations (according to the standards, for other values please consult)		Cycles		600	600	600
Maximum weight (3/4 poles)		Kg		Consult		



SF

SSF



4P

There are versions of changeover switches without OFF 0 position:  
SF (I + II) = SSF \_\_\_\_\_, please consult

Also available 4P changeover switches under request, please consult



Accessories



» Direct handle

(Slide bar)  
CODE DS-EI61



» Auxiliary contacts

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

I<sub>e</sub> = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» External handle included shaft\*(e1)

(Slide bar)  
CODE D5LEN51



» Safety key lock device

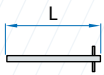
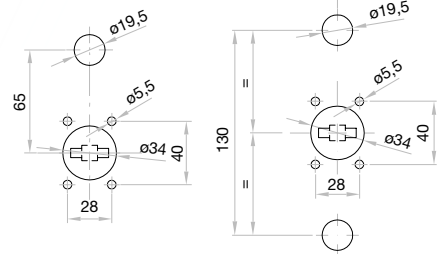
Simple CODE D5LCB41  
Double CODE D5LCF41

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and key lock device

Simple

Double



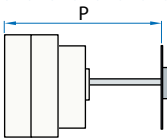
» Shafts

Standard shaft included \*(e1)

L (mm)	P (mm)
333	788... 938

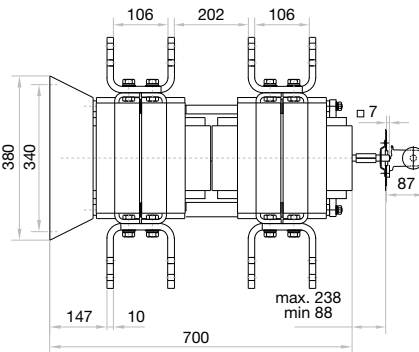
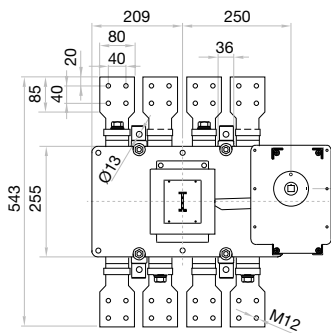
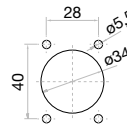
Shaft extensions

Consult

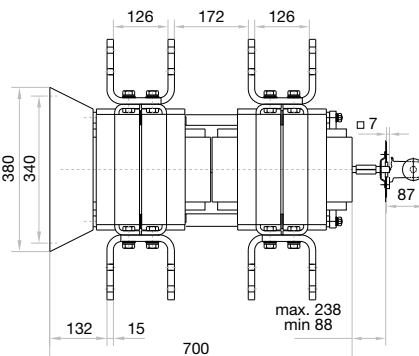
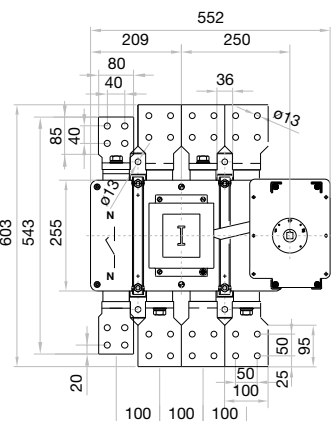
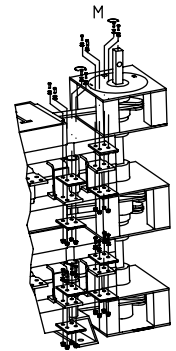


Dimensions (mm)

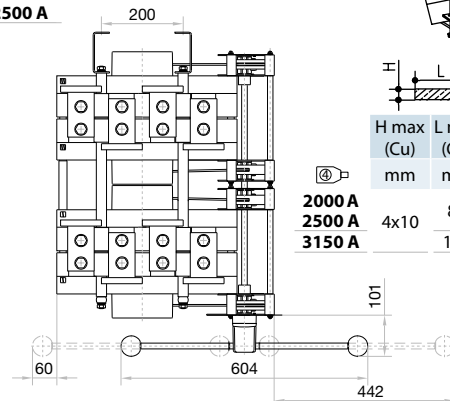
Door drilling for external handle



2000 A  
2500 A



3150 A



H max (Cu)	L max (Cu)	M	M
mm	mm	mm	Nxm
2000 A	80	M12	45
2500 A	80	M12	45
3150 A	100	M12	45

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