

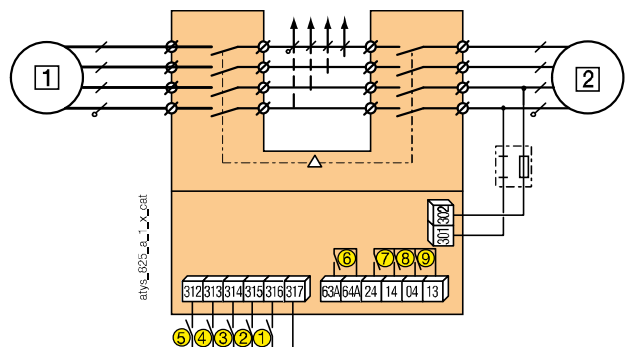
ATyS range

ATyS r, ATyS d, ATyS t, ATyS g, ATyS p

from 125 to 3200 A

Terminals and connections

ATyS r



1 preferred source (mains or genset)

2 alternate source (mains or genset)

1 : position 0 control (contactor logic if closed)

2 : position I control

3 : position II control

4 : position 0 priority control

5 : closure of this contact enables the position control orders

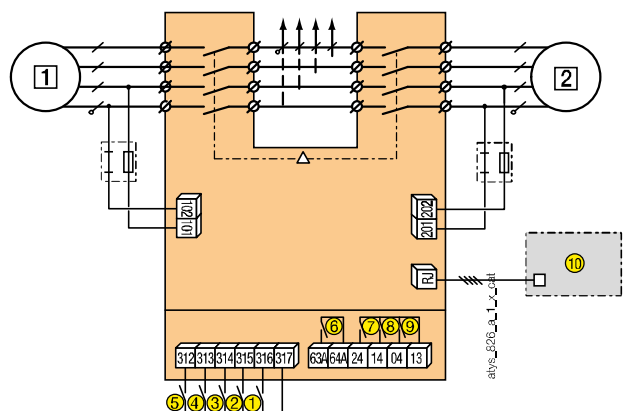
6 : product availability relay

7 : auxiliary contact, closed when the switch is in position II

8 : auxiliary contact, closed when the switch is in position I

9 : auxiliary contact, closed when the switch is in position 0

ATyS d



1 preferred source (mains or genset)

2 alternate source (mains or genset)

1 : position 0 control (contactor logic if closed)

2 : position I control

3 : position II control

4 : position 0 priority control

5 : closure of this contact enables the position control orders

6 : product availability relay

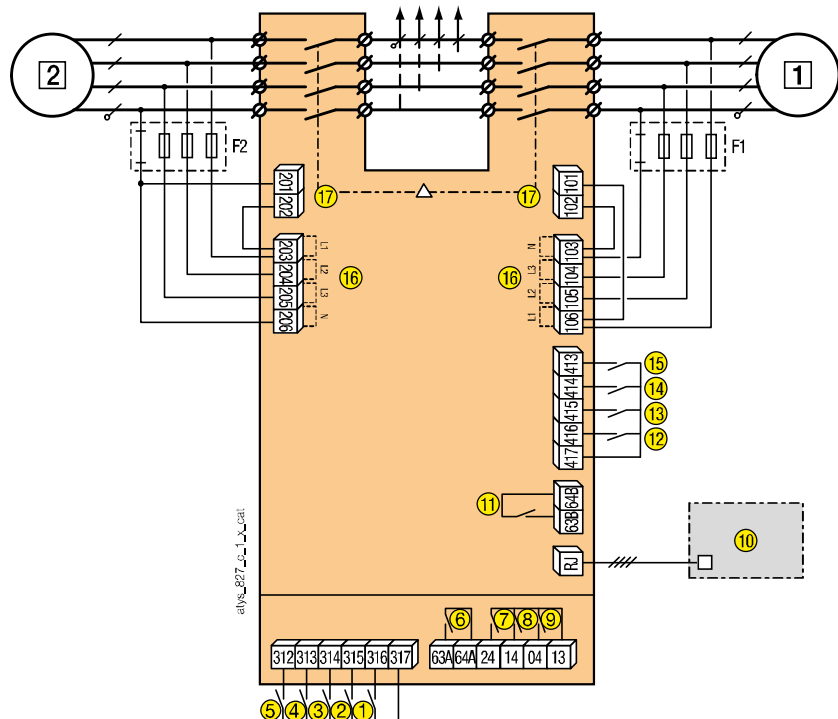
7 : auxiliary contact, closed when the switch is in position II

8 : auxiliary contact, closed when the switch is in position I

9 : auxiliary contact, closed when the switch is in position 0

10 : D10 remote indicator

ATyS t



1 preferred source (network)

2 alternate source (network)

1 : position 0 control (contactor logic if closed)

2 : position I control

3 : position II control

4 : position 0 priority control

5 : closure of this contact enables the position control orders

6 : motorisation unit availability relay

7 : auxiliary contact, closed when the switch is in position II

8 : auxiliary contact, closed when the switch is in position I

9 : auxiliary contact, closed when the switch is in position 0

10 : D10 remote indicator

11 : electronic unit availability relay

12 : automatic operation inhibited

13 : manual retransfer confirmation

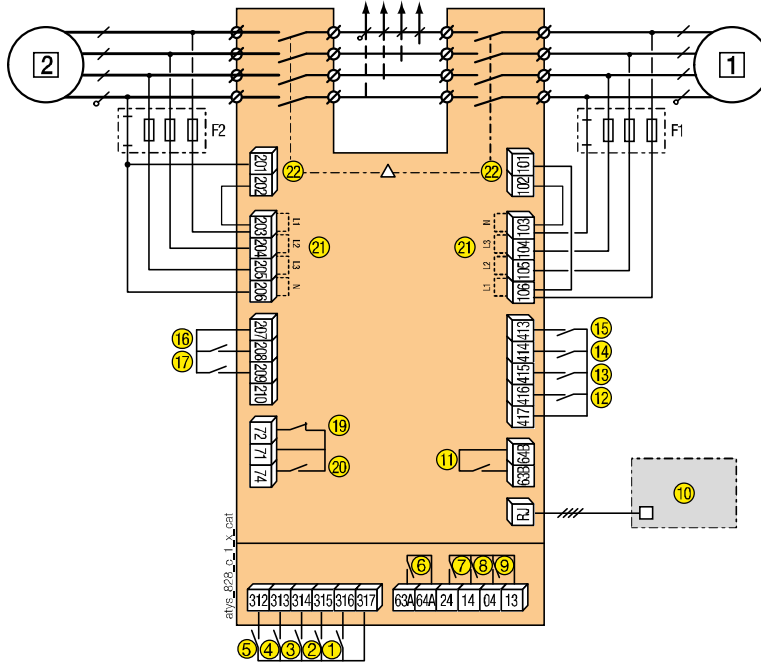
14 : preferred source selection

15 : operation with or without priority

16 : voltage tap inputs

17 : power supply inputs

ATyS g

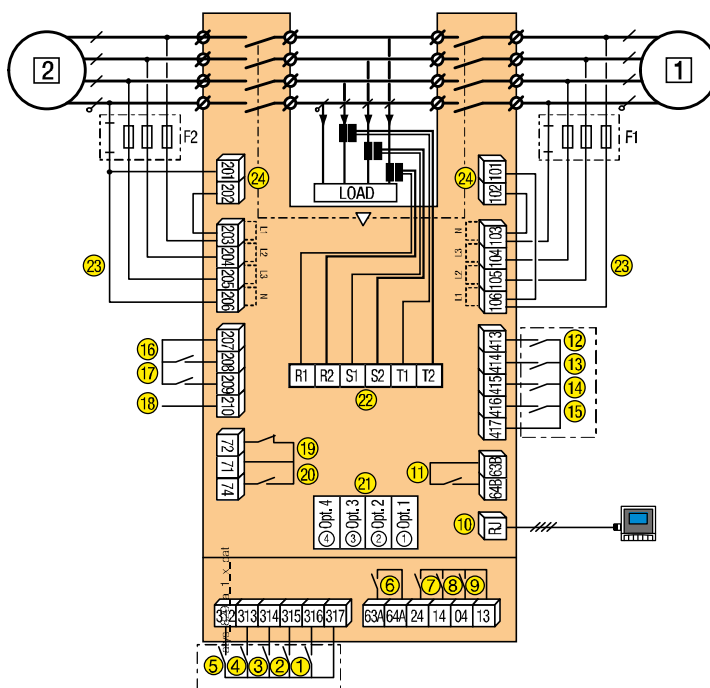


- 1 preferred source (Mains)
- 2 alternate source (Mains or genset)
- 1: position 0 control (contactor logic if closed)
- 2: position I control
- 3: position II control
- 4: position 0 priority control
- 5: closure of this contact enables the position control orders
- 6: motorisation unit availability relay
- 7: auxiliary contact, closed when the switch is in position II
- 8: auxiliary contact, closed when the switch is in position I
- 9: auxiliary contact, closed when the switch is in position 0
- 10: D10 remote indicator
- 11: electronic unit availability relay
- 12: automatic operation inhibited
- 13: manual retransfer confirmation
- 14: 2AT time delay bypass
- 15: priority for test on load
- 16: remote test off load
- 17: remote test on load
- 19-20: genset starting and stopping order

Control	71/72 (19)	71/74 (20)
Generator starting	Contact closed	Contact open
Generator stopping	Contact open	Contact closed

21: voltage tap inputs
22: power supply inputs

ATyS p



- 1 preferred source (Mains or genset)
- 2 alternate source (Mains or genset)
- 1: position 0 control (contactor logic if closed)
- 2: position I control
- 3: position II control
- 4: position 0 priority control
- 5: closure of this contact enables the position control orders
- 6: motorisation unit availability relay
- 7: auxiliary contact, closed when the switch is in position II
- 8: auxiliary contact, closed when the switch is in position I
- 9: auxiliary contact, closed when the switch is in position 0
- 10: remote display D20
- 11: electronic unit availability relay
- 12-17: programmable inputs
- 18: auxiliary power supply for the use of optional modules
- 19-20: genset starting and stopping order

Control	71/72 (19)	71/74 (20)
Generator starting	Contact closed	Contact open
Generator stopping	Contact open	Contact closed

21: 4 slots for optional modules
22: current transformer connection
23: voltage tap inputs
24: power supply inputs

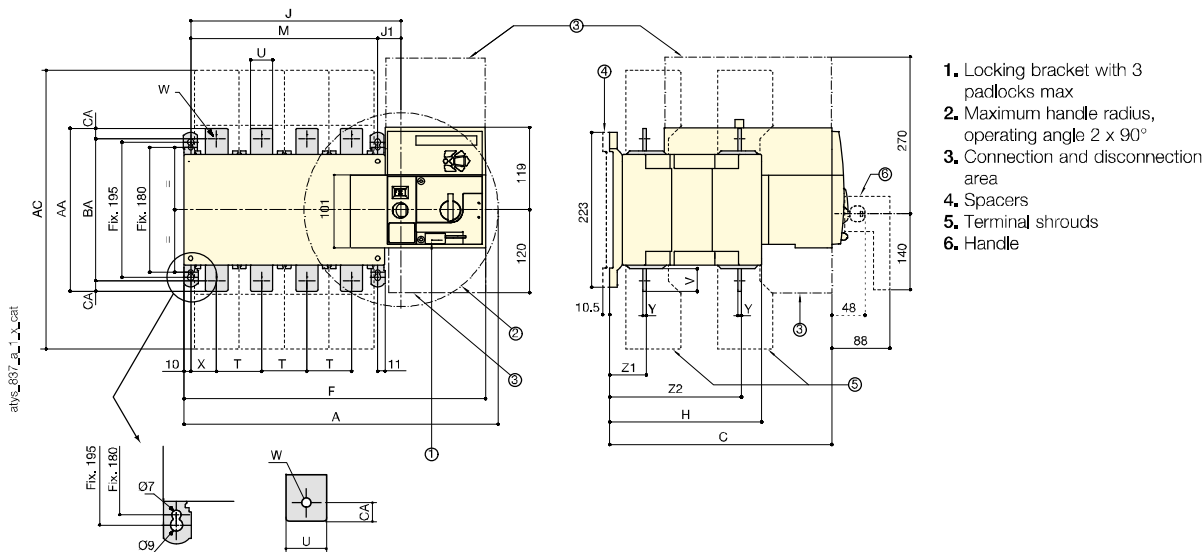
ATyS range

ATyS r, ATyS d, ATyS t, ATyS g, ATyS p

from 125 to 3200 A

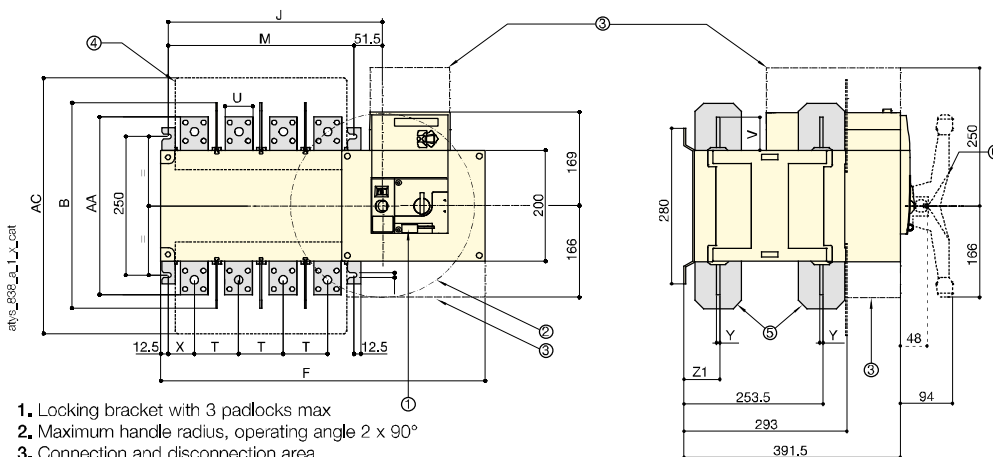
Dimensions

ATyS 125 to 630 A / B3 to B5



Rating (A) / Frame size	Overall dimensions			Terminal shrouds	Switch body						Switch mounting		Connection											
	A 3p.	A 4p.	C	AC	F 3p.	F 4p.	H	J 3p.	J 4p.	J1	M 3p.	M 4p.	T	U	V	W	X 3p.	X 4p.	Y	Z1	Z1	AA	BA	CA
125 / B3	304	334	244	233	286,5	317	151	154	184	34	120	150	36	20	25	9	28	22	3,5	38	134	135	115	10
160 / B3	304	334	244	233	286,5	317	151	154	184	34	120	150	36	20	25	9	28	22	3,5	38	134	135	115	10
200 / B3	304	334	244	233	286,5	317	151	154	184	34	120	150	36	20	25	9	28	22	3,5	38	134	135	115	10
250 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	25	30	11	33	33	3,5	39,5	133,5	160	130	15
315 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	35	35	11	33	33	3,5	39,5	133,5	170	140	15
400 / B4	345	395	244	288	328	378	152	195	245	35	160	210	50	35	35	11	33	33	3,5	39,5	133,5	170	140	15
500 / B5	394	454	320,5	402	377	437	221	244	304	34	210	270	65	32	50	14	42,5	37,5	5	53	190	260	220	15
630 / B5	394	454	320,5	402	377	437	221	244	304	34	210	270	65	45	50	13	42,5	37,5	5	53	190	260	220	20

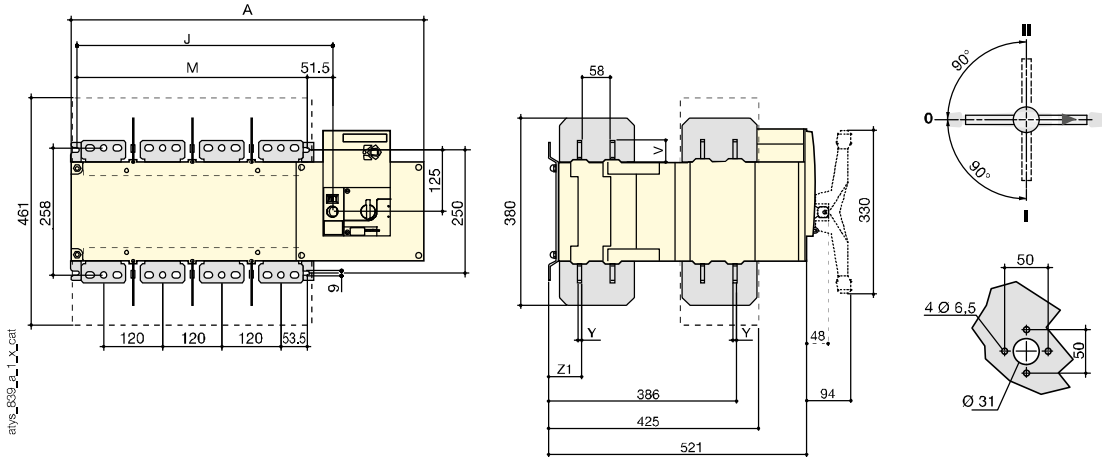
ATyS 800 to 1600 A / B6 to B7



1. Locking bracket with 3 padlocks max
2. Maximum handle radius, operating angle 2 x 90°
3. Connection and disconnection area
4. Terminal screens
5. Inter phase barrier
6. Handle

Rating (A) / Frame size	Overall dimensions	Terminal shrouds	Switch body				Switch mounting		Connection						
	B	AC	F 3p.	F 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	V	X	Y	Z1	AA
800 / B6	370	461	504	584	306,5	386,5	255	335	80	50	60,5	47,5	7	66,5	321
1000 / B6	370	461	504	584	306,5	386,5	255	335	80	50	60,5	47,5	7	66,5	321
1250 / B6	370	461	504	584	306,5	386,5	255	335	80	60	65	47,5	7	66,5	330
1600 / B7	380	531	596	716	398,5	518,5	347	467	120	90	44	53	8	67,5	288

ATyS 2000 to 3200 A / B8



Rating (A)	Overall dimensions B	Terminal shrouds AC	Switch body				Switch mounting		Connection						
			F 3p.	F 4p.	J 3p.	J 4p.	M 3p.	M 4p.	T	U	V	X	Y	Z1	AA
2000 ... 3200	380	531	347	467	399	519	347	467	120	90	44	53	8	67,5	288

Cut of dimensions

ATyS 125 to 630 A / B3 to B5

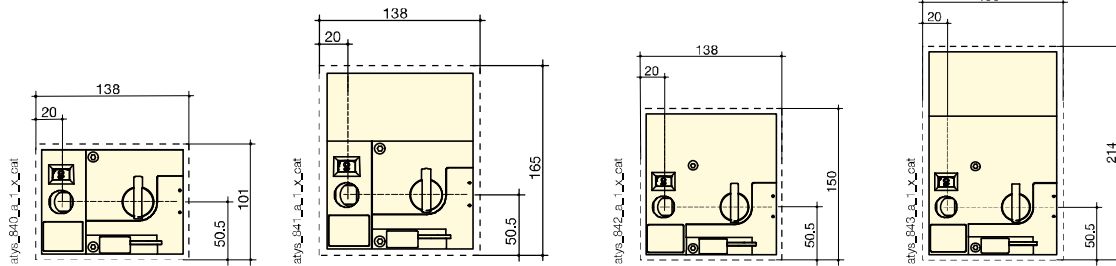
ATyS 800 to 1600 A / B6 to B7

ATyS r

ATyS d, t, g, p

ATyS r

ATyS d, t, g, p

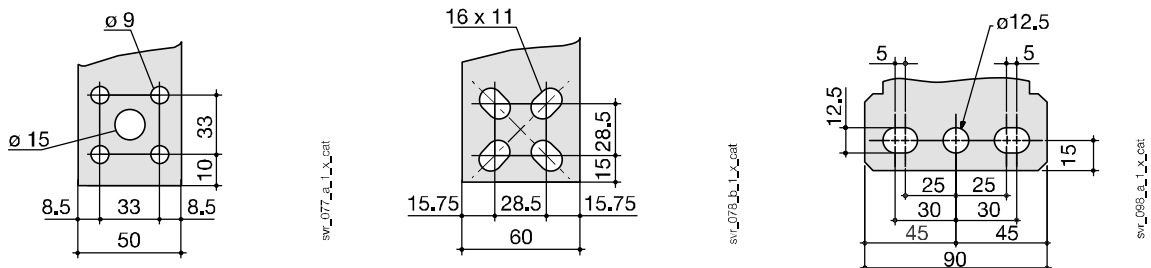


Connection terminals

ATyS 800 to 1000 A / B6

ATyS 1250 A / B6

ATyS 1600 to 3200 A / B7 to B8





ATyS d H

Remotely operated Transfer Switching Equipment
from 4000 to 6300 A

Transfer switches

new

Available in
January
2015



Function

The ATyS d H is a three-phase transfer switch, 3 and 4 poles, designed for low voltage high power applications that require a high performance and fast reliable switching. The open transition transfer is performed on-load in line with IEC 60947-6-1 and GB 14048-11 standards (Class PC) with minimal power supply interruption to the load during transfer.

The ATyS d H is remote transfer switching equipment (RTSE) with an integrated dual power supply (DPS) that accepts remote orders through volt-free contacts.

Advantages

Ready for installation in the enclosure of your choice

The ATyS d H has been designed to facilitate installation as it is available as a fixed or completely withdrawable type of transfer switch. It is composed of two switches that are mounted one above the other with easily accessible power connections located at the rear. Furthermore the ATyS d H does not need any external bridging bars as the load side is connected within the product. This enables to save time during installation.

High performance switching

The ATyS d H offers high withstand short circuit current ratings of 143kA Icm (making) and 65kA for 0.1sec Icw (withstand). Further to its high short circuit withstand, the ATyS d H performance in terms of load switching capacity is AC33IB (6In cos Ø 0,5) without derating.

Safe on-load transfer: I-0-II

The ATyS d H includes two mechanically interlocked switches to ensure fast switching whilst providing a neutral (Off - 0) position. This ensures that the main and alternative power supplies do not overlap. The 0 position can also be used for safe maintenance of the installation, providing isolation between both sources and the load.

The solution for

- > Data centre
- > Telecommunications
- > Industries



Strong points

- > Ready for installation in the enclosure of your choice
- > High performance switching
- > Safe on-load transfer: I-0-II

Conformity to standards

- > IEC 60947-6-1
- > GB 14048-11



Approvals and certifications



Enclosed solution

- > Please contact your SOCOMEC office

External automatic controller

- > The ATyS d H is an RTSE which is compatible with most building management systems. It may also be supplied as an ATSE including an ATyS C20 / C30 / C40 controller with a door mounted external display.

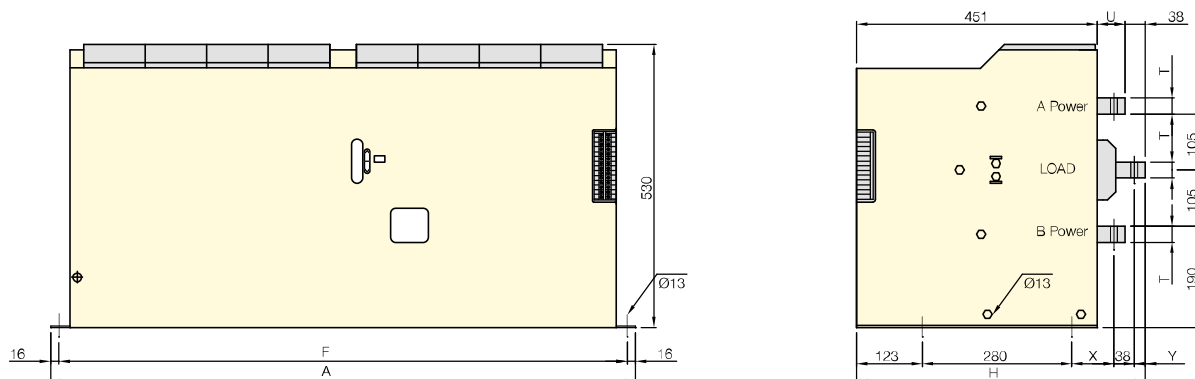
Characteristics according to IEC 60947-6-1

4000 to 6300 A

Thermal current I_{th} at 40°C	4000 A	5000 A	6300 A
Rated operating voltage U_e (V)		660	
Rated insulation voltage U_i (V)		660	
Rated impulse withstand voltage U_{imp} (kV)		12	
Rated short-circuit withstand at 660 VAC			
Rated short-time withstand current 0,1s I_{sw} (kA rms)		65	
Rated peak withstand current (kA peak)		143	
Rated operational current I_o (A), at 660 VAC - AC32B	4000	5000	6300
Rated operational current I_o (A), at 660 VAC - AC33B (6xln cos Ø 0,5)	4000	5000	6300
Connection			
Rear connection with busbar	•	•	•
Switching time			
I to 0 (ms)		≤ 150	
0 to I and 0 to II (ms)		≤ 90	
II to 0 (ms)		≤ 200	
I-0-II / II-0-I (s)		1,2	
Operating frequency		10 operations per hour	
Power supply			
VAC power supply (powered directly on terminals S1 and S2)		230	
Main coil operating current (peak during transfers)		65 A ⁽¹⁾	
Mechanical characteristics			
Durability (number of operating cycles)		3000	
Weight (kg) - Fixed 3/4P model	180 / 220	200 / 250	200 / 250
Weight (kg) - Plug-in 3/4P model	220 / 275	245 / 400	245 / 400

(1) instantaneous value. For a complete operation, power should be available during 0.5s

Dimensions for fixed models



Rating (A)	Overall dimensions		Switch body			Connection			
	A 3p.	A 4p.	F 3p.	F 4p.	H	X	Y	T	U
4000 A	866	1096	834	1064	527	69	17	24	38
5000 A	866	1096	834	1064	541	79	21	30	52
6300 A	866	1096	834	1064	541	79	21	30	52

Reference

For more information regarding references, please consult us.