

ATyS d H

Remotely operated Transfer Switching Equipment
from 4000 to 6300 A



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



Enclosed solution

- > Please contact your SOCOMECC 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 by including an ATyS C55 / C65 controller with a door mounted external display.

Function

The ATyS d H is a three-phase transfer switch, 3 and 4 poles, designed for low voltage high power applications that require high-performance and fast reliable switching. The open transition transfer is performed on-load in line with IEC 60947-6-1 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. 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 143 kA I_{cm} (making) and 65 kA for 0.1sec I_{cw} (withstand). Further to its high short circuit withstand, the ATyS d H performance in terms of load switching capacity is AC-33iB ($6 \times I_n \cos \phi 0.5$) 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.

References

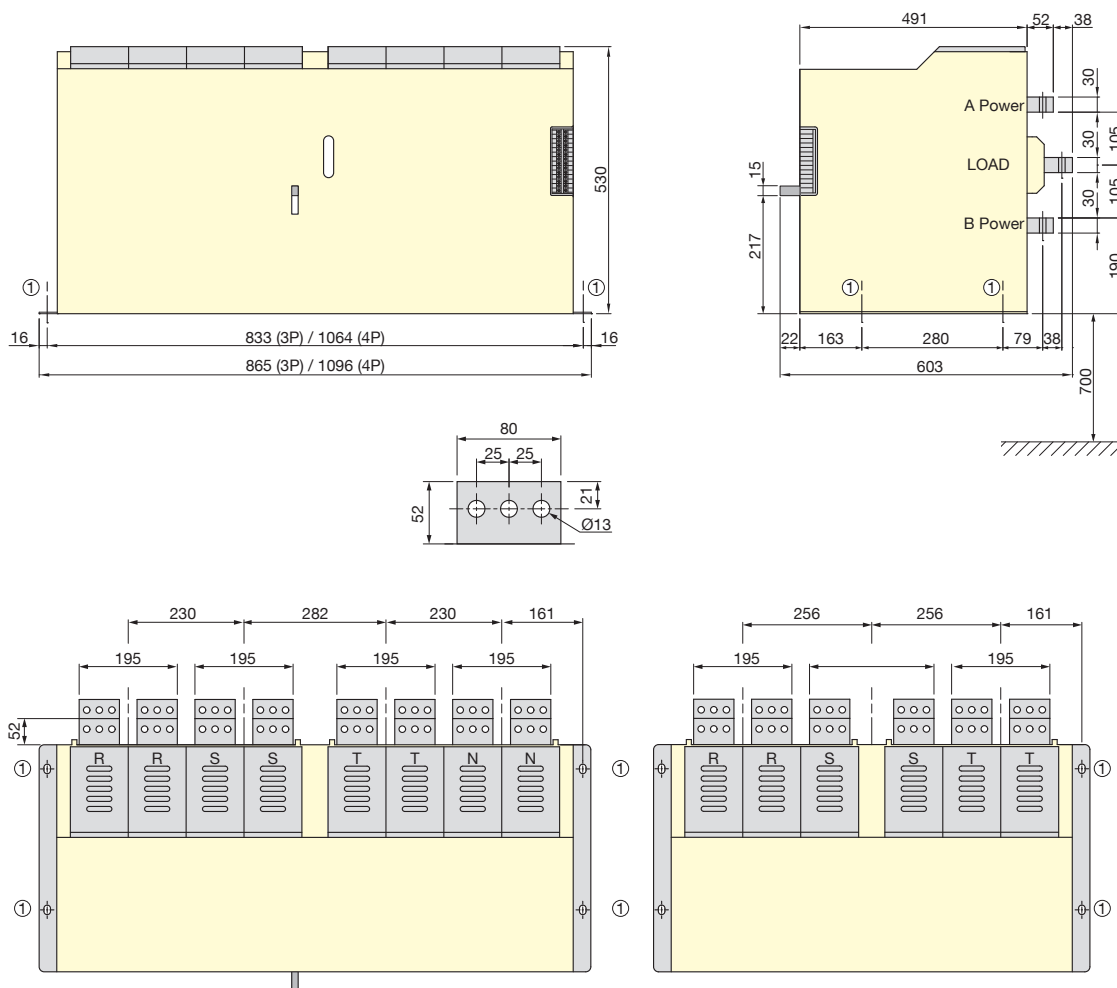
Rating (A)	Number of poles	ATyS d H Reference	Control relay Reference
4000 A	3P	9533 3400	ATyS C55 1600 0055
	4P	9533 4400	
5000 A	3P	9533 3500	ATyS C65 1600 0065
	4P	9533 4500	
6300 A	3P	9533 3630	
	4P	9533 4630	

Characteristics according to IEC 60947-6-1

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_{cw} (kA rms)	65		
Rated peak withstand current (kA peak)	143		
Rated operational current I_b (A), at 660 VAC - AC32B	4000	5000	6300
Rated operational current I_b (A), at 660 VAC - AC33iB (6xIn cos Ø 0.5)	4000	5000	6300
Connection			
Rear connection with busbar	•	•	•
Power dissipation (W/pole)	128	200	317
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	200 / 250	200 / 250	200 / 250

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

Dimensions



1. Fixing hole base: Ø13 mm