



# ATyS *d M*

Remotely operated Transfer Switching Equipment  
from 40 to 160 A

Transfer switches



ATyS d M  
I-O-II 4P

## The solution for

- > Applications with a normal/emergency external controller
- > Building Management System (BMS)



## Strong points

- > Secure
- > Superior electrical performance
- > High-speed transfer
- > Immune to voltage fluctuations

## Conformity to standards

- > IEC 60947-6-1
- > IEC 60947-3
- > GB/T 14048.11



## Approvals and certifications



## Function

ATyS d M devices are 2 pole or 4 pole transfer switches that are remotely controlled using volt-free contacts from an external controller. They are modular products with positive break indication. They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

## Advantages

### Secure

ATyS M have both electrical and mechanical interlocks for optimum security. They also feature a positive break indicator, confirming switch position with dual mechanical indicators for increased safety.

### High-speed transfer

ATyS d M devices are based on a coil solution with rotating contacts, therefore ensuring an extremely short black-out duration (< 90ms).

### Superior electrical performance

ATyS M devices are compliant with IEC 60947-6-1, the standard governing transfer switches. Their AC-33B properties of up to 125 A mean you can use the same product for resistive and inductive loads.

### Immune to voltage fluctuations

The power supply of the ATyS d M is only active during transfer. As the product is based on stable positions, it is not affected by network voltage fluctuations.

## Operating modes



ATySm\_014\_c

Easy selection of AUT/MAN mode



ATySm\_015\_c\_1\_cat

Manual emergency operation



ATySm\_016\_c\_1\_cat

Padlocking facility

## What you need to know

### Electrical control

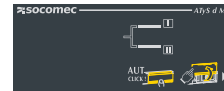
The positions are controlled by dry contacts on any external automated system (e.g. ATyS C30).  
These positions are stable even in case of loss of input supply.

### Control logic

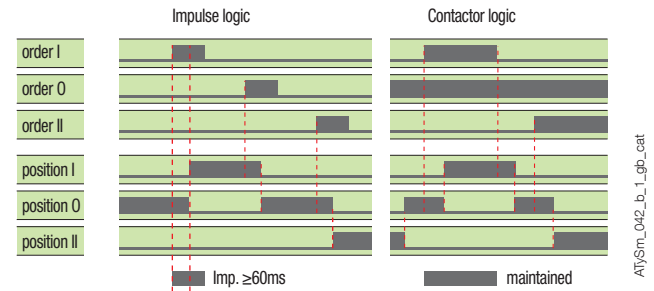
Two types of control logic are offered:

- Pulse logic
  - A switching command of at least 60 ms is necessary to initiate operation.
  - Commands I and II have priority over command 0.
  - The first command received (I or II) has priority as long as it remains present.
- Contactor logic
  - Command 0 must be maintained.
  - If command I or II disappears, the device returns to position 0, so long as the power supply is available.

Single-phase interface



Three-phase interface



### Power supply

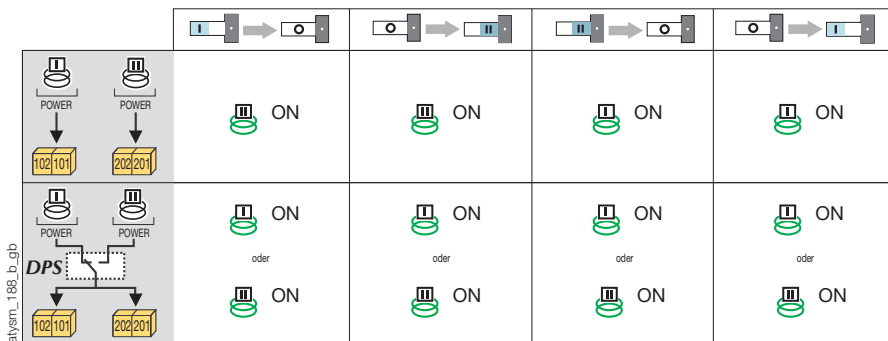
The ATyS d M is equipped with two independent 230 VAC power inputs (176-288 VAC), 50/60 Hz (45/65 Hz).

These two supplies can be connected individually; one to switch I and the other to switch II:

- Power supply 101-102 must be available to reach position I
- Power supply 201-202 must be available to reach position II.

The use of a dual power supply (DPS) or an external supply module secures the command of the 3 positions irrespective of the power supply source.

In this case, both the supply inputs must be connected in parallel.



## References

### ATyS d M

Rating (A)	No. of poles	ATyS d M	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block
40 A	2 P	9323 2004	2 P 1309 2006 4 P 1309 4006	2 pieces 1399 4006	2 pieces 2294 4016 <sup>(1)</sup>	1 <sup>st</sup> unit included  2 <sup>nd</sup> unit Separate common points 1309 1001 <sup>(2)</sup>  Linked common points 1309 1011 <sup>(2)</sup>
	4 P	9323 4004				
63 A	2 P	9323 2006				
	4 P	9323 4006				
80 A	2 P	9323 2008				
	4 P	9323 4008				
100 A	2 P	9323 2010				
	4 P	9323 4010				
125 A	2 P	9323 2012				
	4 P	9323 4012				
160 A	2 P	9323 2016	1309 2016			
	4 P	9323 4016	1309 4016			

(1) For the three-phase version, for complete upstream and downstream protection, please order 2x; for the single-phase version please order the part just 1x.

(2) 1 NO/NC contact block for positions I, 0 and II.