



ATyS d M

Remotely operated Transfer Switching Equipment from 40 to 160 A

Transfer switches

new

atys-md_002_b_1_cat



ATyS d M
I-O-II 4P

The solution for

- > Applications with an external ATS/AMF controller
- > Building Management Systems (BMS)



Strong points

- > Secure operation
- > High performance
- > Fast transfer times
- > Immune to network voltage fluctuations

Conformity to standards

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



Approvals and certifications



Function

ATyS d M are single-phase or three-phase 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 operation

ATyS M products provide electrical and mechanical interlocks for optimum safety. The product also provides positive break indication, confirming switch position with dual mechanical indicators for increased safety.

Fast transfer

ATyS d M are based on coil and technology with rotative contacts, therefore ensuring an extremely short black-out duration (< 90ms).

High performance

ATyS M are compliant with IEC 60947-6-1, the standard governing transfer switches. The AC 33B characteristic up to 125 A makes it possible to use the same product for resistive and inductive loads.

Immune to network voltage fluctuations

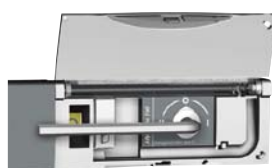
The power supply of the ATyS d M is only active during transfer. As the product is based on stable positions, it is not affected by network voltage fluctuations.

Modes of operation



ATySm_014_c

Easy selection of AUTO/
MANUAL mode



ATySm_015_c_1_cat

Back-up manual operation



ATySm_016_c_1_cat

Padlocking facility

What you need to know

Electrical control

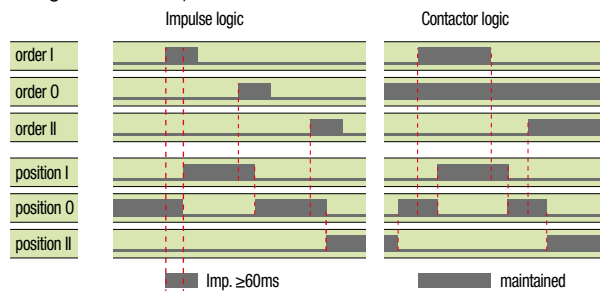
The positions are controlled by volt-free contacts which may come from an external automatic ATS controller (such as the ATyS C30), PLC, BMS or even simply using pushbuttons.

The power section switch positions are stable, with or without a supply present.

Control logic

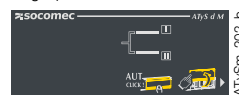
Two types of control logic are available:

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



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Single-phase interface



Three-phase interface



ATySm_029_c

Power supply

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

These two power supplies may be and are intended to 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 uninterrupted power supply module, provides the full security of the 3 position commands with the availability of any supply.

In this case, both supply inputs must be connected in parallel in order to be supplied.

References

Rating (A)	No. of poles	ATyS d M	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block
40	2 P	9323 2004	2 P 1309 2006 4 P 1309 4006	2 pieces 1399 4006	2 pieces 2294 4016 ⁽¹⁾	1 st A/C block included 2 nd A/C block Separate common points 1309 0001 ⁽²⁾ Linked common points 1309 0011 ⁽²⁾
	4 P	9323 4004				
63	2 P	9323 2006				
	4 P	9323 4006				
80	2 P	9323 2008				
	4 P	9323 4008				
100	2 P	9323 2010				
	4 P	9323 4010				
125	2 P	9323 2012				
	4 P	9323 4012				
160	2 P	9323 2016	1309 2016			
	4 P	9323 4016	1309 4016			

⁽¹⁾ The three-phase version (4 P), for upstream and downstream protection, please order the reference twice. For the single-phase version (2 P) please order the reference once.

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