

ATyS *Bypass*

Enclosed solution
from 40 to 3200 A



When **energy** matters

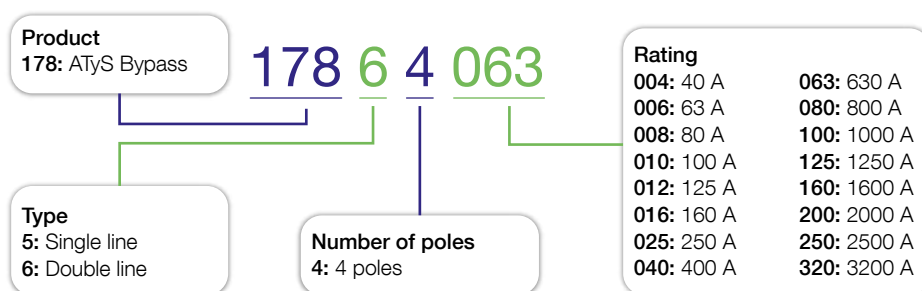
 **socomec**
Innovative Power Solutions

A complete enclosed range of ATyS dedicated to bypass function

Architecture

	SINGLE LINE				DOUBLE LINE			
RANGE FROM 40 TO 3200 A								
	Functions	Qtyies	40 to 125 A	160 to 3200 A	Functions	Qtyies	40 to 125 A	160 to 3200 A
SWITCHING EQUIPMENTS	ATSE Automatic Transfer Switch	1	ATYS PM 001 B	ATYS P 001 B	ATSE Automatic Transfer Switch	1	ATYS PM 001 B	ATYS P 001 B
	LBS Load Break Switch	1	SIRCM 191 A	SVR 099 B	LBS Load Break Switch	1	SIRCM 191 A	SVR 099 B
	MTS Manual Transfer Switch	1	SIRCM 191 A	SVR 099 B	MTS Manual Transfer Switch	2	SIRCM 191 A	SVR 099 B

References



Ensures availability of the electrical power supply under all circumstances

With the quality and availability of the power supply becoming ever more critical, any interruption of the supply can cause heavy financial losses and pose a risk to the safety of personnel. To meet this challenge, Socomec, specialists in power control systems and switching solutions, has developed the ATyS family of products with this important aim in mind: to ensure the supply of downstream loads by the rapid transfer between two power sources. The ATyS Bypass range, the definitive solution in terms of power availability, facilitates the maintenance, inspection and testing of ATyS products without any disruption to the load.



Compliance to standards

The ATyS Bypass solution is CE certified and complies with standards IEC 60947-6-1 and 61439-2. It has also undergone seismic resistance tests (as per standards IBC2012, UBC1997 and EN60068-3-3).

Plug & Play

The ATyS are supplied with an autoconfiguration function that provides automatic adjustment of the nominal voltages and frequencies of the mains network.

Communication

The ATyS Bypass include RS485 Modbus communication which allows users to check product status, voltage measurements, parameter settings, etc.

ATyS Bypass solution

The ultimate solution for power supply availability of essential loads



Reliable solution

- Complete ATS redundancy.
- Optimised MTTR.
- Inspection, test & maintenance simplified.

Safe solution

- Intuitive and secure operation.
- High electric operation.

Integrated solution

- Complete solution.
- New & Retrofit installation.
- Remote control capabilities.

Functions

Normal position

The bypass products are out of power, they will not carry fault currents. All the changeover functionalities are ensured by the ATS.

Bypass mode

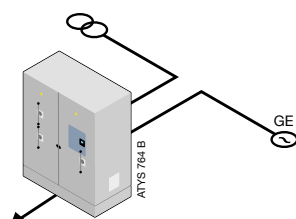
The ATS is bypassed without interruption of the power supply & fully isolated. The load is supplied by source 1 or source 2 through the manual changeover switch.

Test mode

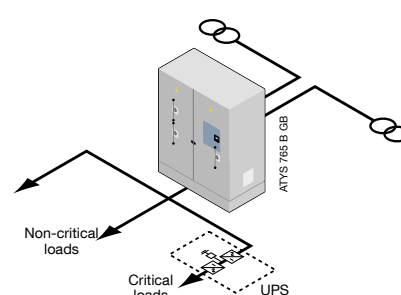
The load is not supplied by the ATS but through the Manual changeover switch, the Automatic Transfer Switch can be tested without any perturbation on the load.

Secure switching for all your applications*

Network/Generator set permutation



Network/Network permutation



* Generator/Generator application on request.

A new intelligent, adaptable switching concept

A compact secure transfer system

- Two load break switches with high short circuit withstand.
- Safety disconnection between loads and upstream power sources.

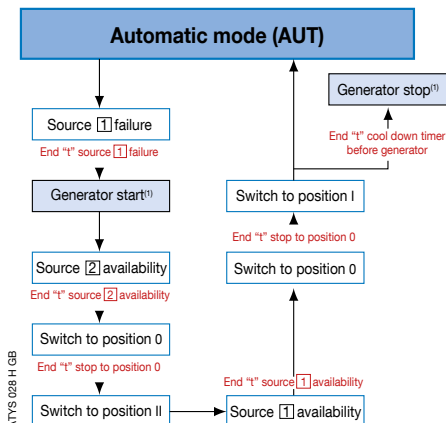


- Load bridging made easy by using the bridging bars available as accessories.



Complete control functions

- Voltage/frequency detection limits and verification of phase rotation.
- Switching cycles can be pre-programmed or customised.



Example (generator application):
 Source 1 : priority power source
 Source 2 : backup power source
 "t" : timer

(1) Only for mains/genset applications.

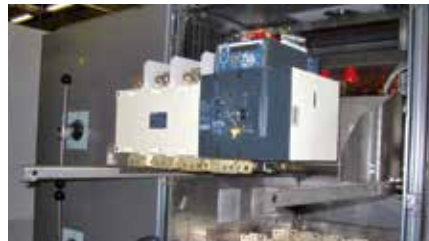
Dedicated control logic

- Genset start/stop control.
- Luminous mimic diagram showing status of power sources and position of the switch.
- Screen displays programmed and controlled values.
- Run "permutation cycle" tests either on or off load.
- Electrical position control (via keypad or remote).



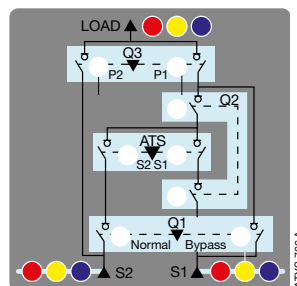
Easy replacement of the different functional unit

- Full safety replacement of the:
- motor (4 screws),
 - controller (2 screws),
 - complete ATS (easy extraction ≥ 250 A).



Mimic diagram

To get a global overview of the ATyS system status, an optional 16 LED mimic panel is available (voltage availability per phase and device positions).



Communication

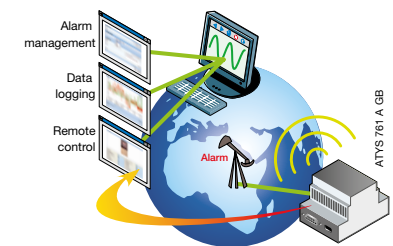
RS485 JBus/Modbus module (standard).

Accessories (factory fitted)

Remote ATyS Bypass management

An optional module can be integrated in the ATyS Bypass to allow communication through Ethernet for the following functions:

- data logging,
- remote control.



Engine exerciser (from 40 to 160 A)



The ATyS Bypass Solution from 40 to 160 A can be supply along with an engine exerciser for set Start Time, Time of day, of week...

Extension cabinet



To make all types of connections (BB/TT/BT/TB) from 1200 to 3200 A, possibility to have an extension cabinet.

Power measurement



The ATyS Bypass can be equipped with measurement devices and CT's.

Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,600 employees
worldwide

10 % of sales revenue
dedicated to R&D

400 experts
dedicated to service provision

Your power management expert



POWER
SWITCHING



POWER
MONITORING



POWER
CONVERSION



ENERGY
STORAGE



EXPERT
SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

12 production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)

28 subsidiaries and commercial locations

- Algeria • Australia • Belgium • China • Canada
- Dubai (United Arab Emirates) • France • Germany
- India • Indonesia • Italy • Ivory Coast • Netherlands
- Poland • Portugal • Romania • Serbia • Singapore
- Slovenia • South Africa • Spain • Switzerland
- Thailand • Tunisia • Turkey • UK • USA

80 countries

where our brand is distributed

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