

ATyS *Bypass*

Enclosed solution
from 40 to 3200 A



your energy
our expertise



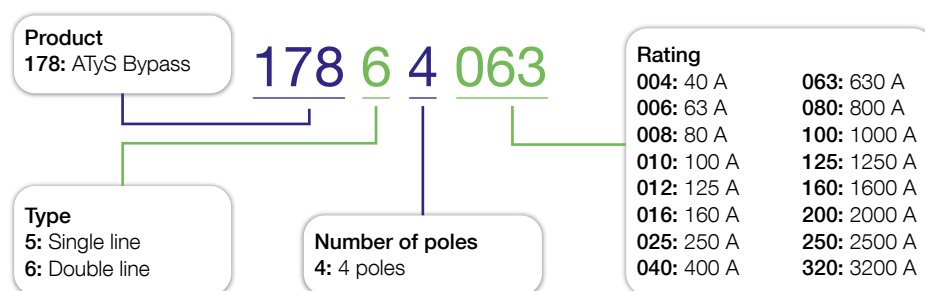
 **socomec**
Innovative Power Solutions

A complete enclosed range dedicated to the ATyS Bypass solution

Architecture

	SINGLE LINE				DOUBLE LINE			
RANGE FROM 40 TO 3200 A								
	Functions	Qtyies	40 to 160 A	250 to 3200 A	Functions	Qtyies	40 to 160 A	250 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.

SOCOMEc, your best asset

European manufacturing group

- Created in 1922.
- A workforce of almost 3000.
- Located on all five continents.

A culture of independence

- Family shareholding.
- Control of the decision-making process.
- Respect of human values.

The spirit of innovation

- Almost 10% of turnover is invested in R&D.

A flexible manufacturing structure

- Competitive production sites.
- Lean Management.
- Lead times, quality and cost guaranteed.

The vision of a specialist

- Expertise in core technologies.
- Product adaptations as per customer requirements.

A focus on service

- Advice, technical assistance and call-out, training.
- Teams located across the globe.



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

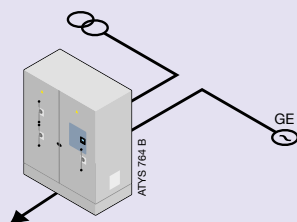
The ATS is bypassed without interruption of the power supply & fully isolated. The load is supplied by source 1 or source 2 through the manual changeover switch.

Test mode

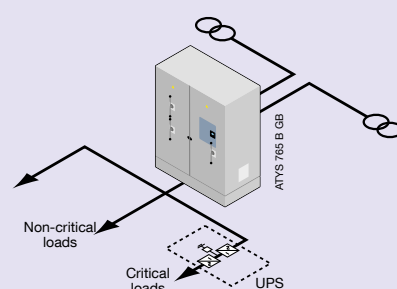
The load is not supplied by the ATS but through the Manual changeover switch, the Automatic Transfer Switch can be tested without any perturbation on the load.

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.



ATYSM 259 A

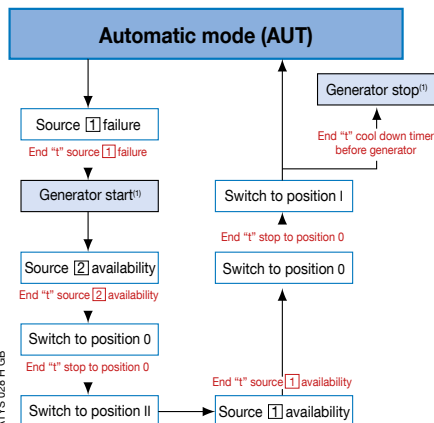
- Load bridging made easy by using the bridging bars available as accessories.



ATYS 788 A

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).



ATYS 889 A

Easy replacement of the different functional unit

Full safety replacement of the:

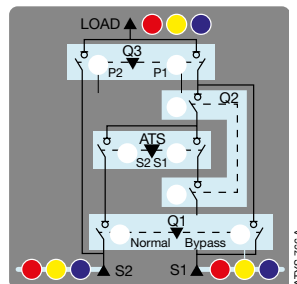
- motor (4 screws),
- controller (2 screws),
- complete ATS (easy extraction ≥ 250 A).



ATYS 788 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).



ATYS 788 A

Communication

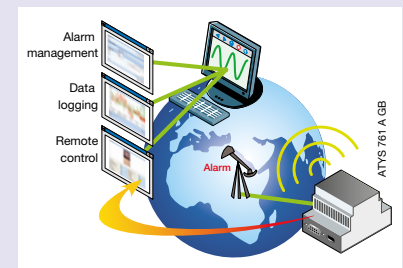
RS485 JBus/Modbus module (standard).

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.



ATYS 761 A GB

Engine exerciser (from 40 to 160 A)

The ATyS Bypass Solution from 40 to 160 A can be supplied 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.



DIRIS 743 A

KDRYS 504 A

ACCESS 278 A

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