

ATyS

Automatic Transfer Switch

125 A TO 3200 A

SWITCH TO INNOVATION



SOCOMEC: leading the field in changeover switching

Disconnection, breaking, control... Since 1922 SOCOMEC has gained a wealth of experience in these fields. The excellent worldwide reputation of its products both in industrial and commercial LV electrical installations is due to their high quality and reliability.

The back-to-back manual changeover switch, invented by SOCOMEC and now available in a compact motorised version, has become the world reference in power switching.

ATyS: intelligent integration of control and electronic protection

A leader in electrical control and protection, SOCOMEC is breaking new ground by combining its expertise in this field with its breaking systems. The result: an innovative technological concept for intelligent switching of energy supplies.

ATyS: a practical response to IEC and EN 60947-6-1 switching requirements

The new ATyS switching range has been designed, tested and proven according to the criteria in the international standard IEC 60947-6-1.

Its compliance with this standard guarantees a quality product which meets all the requirements of automatic transfer.



ATyS 079 B

SOCOMEC can also provide:

> Other manual and automatic changeover switches



> Static Load Transfer Modules



> UPS for critical loads



The “plug and play” changeover switch

The normal / backup function is operational as soon as the power cables are connected !

CHANGEOVER

Two mechanically-interlocked switches.

OPERATION

A motorised unit and manual backup switch.

MONITORING AND CONTROL

Integrated electronic relay.

CONFIGURATION AND DISPLAY

Ergonomic, upgradeable interface.

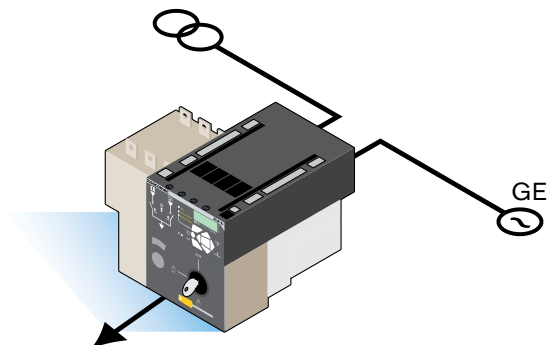
INSTALLATION

Compact integrated solutions facilitate installation and connections.



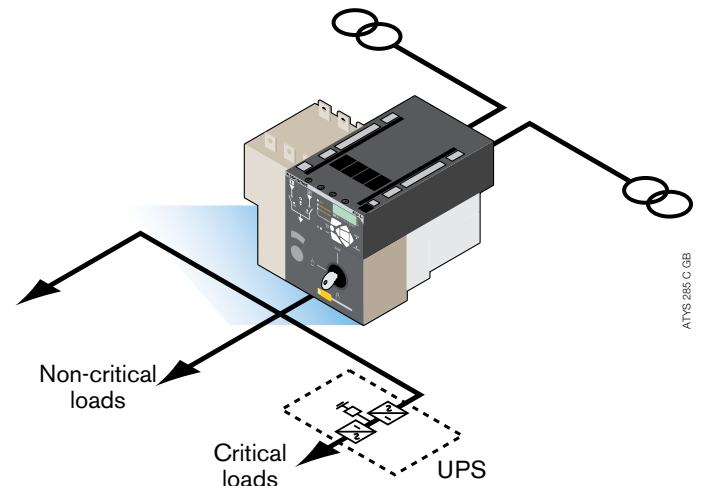
SECURE SWITCHING FOR ALL YOUR APPLICATIONS

> Network / Generator set permutation



ATyS 295 C

> Network / Network permutation



ATyS 295 C GB

A new intelligent, modular switching concept

A COMPACT SECURE TRANSFER SYSTEM

- > Two load break switches with high short circuit withstand
- > Safety disconnection between loads and upstream power sources
- > Back-to-back assembly from factory guarantees interlocking
- > Load bridging made easy by using the bridging bars available as accessories



ATyS 208 A

A SIMPLE, ADAPTABLE CONTROL MODULE

- > Easy selection of automatic or manual control
- > Handle for manual operation
- > Padlockable facility



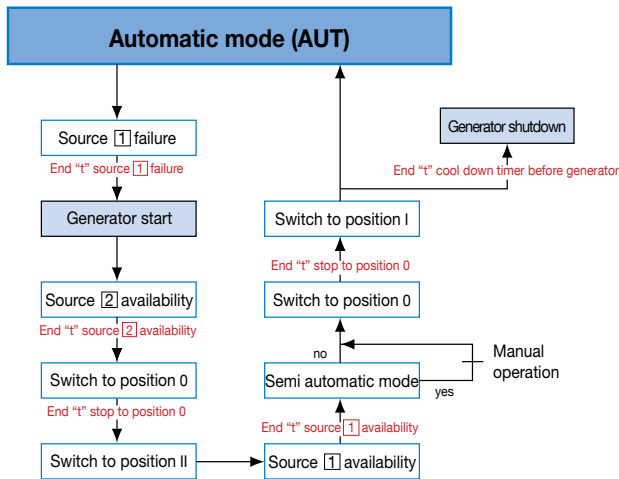
ATyS 013 C



ATyS 008 C

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

ATyS 028 E GB

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 016 C

FLEXIBLE UPGRADEABILITY

> Plug-in optional modules

- RS 485 JBUS / MODBUS communication module (programming software can be downloaded from the SOCOMEC site: www.socomec.com)
- Module configurable with 2 Inputs / 2 Outputs (network priority, load shedding, remote manual re-transfer etc.)



ATyS 289 A

Programming software



ATyS 016 C

Optional modules

> Dedicated accessories

- Voltage sensing and supply kit
- ATyS D10 and D20 remote interfaces



ATyS 011 A



ATyS 565 C

ATyS 564 C

ATyS D10 / D20 remote interface with RJ45 connection

- Bridging bars, terminal shrouds, terminal screens, optional padlocking in 3 positions, special locks, additional auxiliary contacts...

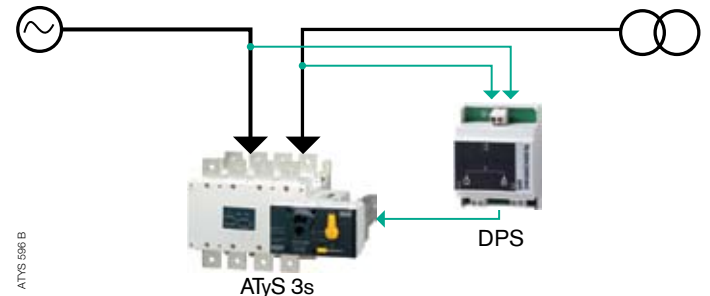


ATyS 591 A

Rear view

> A double power supply module

The DPS module allows the ATyS 3s to be powered from the available source (Normal / Emergency).



ATyS 596 B

ATyS 3s

DPS




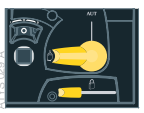





EASY MAINTENANCE

- > The motorised module and the control module can be replaced separately without disconnecting the power connections



ATyS 015 C

A complete range for both industrial and commercial low voltage applications

	> ATyS 3		> ATyS 6		> ATyS controller	
	A motorised changeover switch for connection to a power supply		A changeover system with an autonomous power source (ATS*)		A universal relay for power source switching	
						
						
	ATyS 3s**	ATyS 3e	ATyS 6e	ATyS 6m	ATyS C30	ATyS C40
MOTORISED CHANGEOVER						
Manual backup switch	•	•	•	•		
Can be padlocked in 3 positions	•	•	•	•		
Auto / Manual mode selector	•	•	•	•		
Auxiliary contacts (status indicator)	•	•	•	•		
Two power sources		•	•	•		
Uses the present source		•	•	•		
NORMAL / BACKUP CONTROL RELAY						
Single phase voltage measurement on network [1]			•	•	•	•
Three phases voltage measurement on network [1]			•	•	•	•
Single phase voltage measurement on network [2]			•	•	•	•
Three phase voltage measurement on network [2]			•	•	•	•
Can be used to start / stop a generator set			•	•	•	•
Can be used to start / stop two generator sets			•	•	•	•
Frequency sensing on network [1] and [2]			•	•	•	•
Loss of mains timer, return of mains timer, dead band stay in 0 position and generator set cooling down timers			•	•	•	•
Remote start / stop the automatique mode			•	•	•	•
Test sequences			•	•	•	•
Fault relay			•	•	•	•
Electrical controls for position			•	•	•	•
Measurement of I, P, Q, S, PF, neutral current calculation			•	•	•	•
Large backlit display			•	•	•	•
OPTIONS						
Optional communication module		•	•	•		
2 Inputs / 2 Outputs optional module***		•	•	•		
ATyS D10 and ATyS D20 interfaces connection			•	•	•	
Double power supply	•					

* Automatic Transfer Switch.

** only < 2000 A.

*** 2 inputs / 2 outputs as standard on ATyS C30.

Please contact us for full functional specification.

FITS WHERE YOU WANT IT

> Back plate mounting



APPL 082 B

ATyS products can be mounted on the back plate of the cabinet with optional connection to remote interfaces with controlled access.

> Flush mounting



APPL 082 B

ATyS products can be mounted to enable direct external access to the command and display interface.

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