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.

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.

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**SECURE SWITCHING FOR ALL YOUR APPLICATIONS**

- **Network / Generator set permutation**

- **Network / Network permutation**

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**GER AIR 284 C**

**Critical loads UPS**

**Non-critical loads**

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**Critical loads**

**Non-critical loads**

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**Critical loads**

**Non-critical loads**
**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

**A SIMPLE, ADAPTABLE CONTROL MODULE**

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

**COMPLETE CONTROL FUNCTIONS**

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

**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)

**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.)

**EASY MAINTENANCE**

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

**A double power supply module**

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>ATyS 3s**</th>
<th>ATyS 3e</th>
<th>ATyS 6e</th>
<th>ATyS 6m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual backup switch</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Can be padlocked in 3 positions</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Auto / Manual mode selector</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Auxiliary contacts (status indicator)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Two power sources</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Uses the present source</td>
<td>•</td>
<td>•</td>
<td>•</td>
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</tr>
</tbody>
</table>

### NORMAL / BACKUP CONTROL RELAY

<table>
<thead>
<tr>
<th>Feature</th>
<th>ATyS 3s**</th>
<th>ATyS 3e</th>
<th>ATyS 6e</th>
<th>ATyS 6m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single phase voltage measurement on network</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Three phases voltage measurement on network</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Single phase voltage measurement on network</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Three phase voltage measurement on network</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Can be used to start / stop a generator set</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Can be used to start / stop two generator sets</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Frequency sensing on network</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Loss of mains timer, return of mains timer, dead band stay in 0 position and generator set cooling down timers</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Remote start / stop the automatique mode</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Test sequences</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Fault relay</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Electrical controls for position</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Measurement of I, P, Q, S, PF, neutral current calculation</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Large backlit display</td>
<td>•</td>
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</tbody>
</table>

### OPTIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>ATyS 3s**</th>
<th>ATyS 3e</th>
<th>ATyS 6e</th>
<th>ATyS 6m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional communication module</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>2 Inputs / 2 Outputs optional module***</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ATyS D10 and ATyS D20 interfaces connection</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Double power supply</td>
<td>•</td>
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</tbody>
</table>

* Automatic Transfer Switch.
** only < 2000 A.
*** 2 inputs / 2 outputs as standard on ATyS C30.
Please contact us for full functional specification.

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**ATyS**

> **FITS WHERE YOU WANT IT**

### Back plate mounting

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

### Flush mounting

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