Single Line & Double Line Transfer Switching Equipment

ATyS Bypass from 40 to 3200 A
Ensures availability of the electrical power supply under all circumstances

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

**Safe solution**
- Intuitive and secured operation.
- High-performance switching.
- Original manufacturing (Made in France).

**Integrated solution**
- Complete integrated solutions or loose components.
- For new and existing (retrofit) installations.
- Remote control capabilities.
Applications
Tertiary sector / Critical building / Building

- High-rise & public buildings (security equipment, alarm systems, smoke extraction systems, fire pumps, air compressors, sprinkler systems, lifts…)
- Hospitals (surgery, intensive care, hospitalisation…).
- IT rooms (data centres, banks, insurances, website hosting…).
- Shopping centres.

Infrastructure

- Airports (navigation, signs, landing lights…).
- Commercial and military navy (dock connection, embedded supplies).
- Highways / motorways (tunnels, tolls…).
- Railways (rail signs) / subways
- Telecom / isolated sites (self-sufficient power supply).
Introduction

Transfer Switching Equipment (TSE) is utilised for any application requiring switching operations from one power circuit to another. Generally the transfer concept is applied where two incoming sources, one considered as main/normal and the other as a backup/emergency source, are used to supply a single load.

The expression “normal/emergency” is used to name this function. The ATyS switching range has been designed, tested and proven according to the international standard IEC 60947-6-1.

Hence, SOCOMEC ATyS guarantees a high quality product which meets all requirements of an Automatic Transfer Switch Equipment (ATSE).

Applications & ATSE solutions

- **Automatic Transfer Switching Equipment (ATSE)** autonomously manage the changeover between normal & emergency sources in order to ensure power supply quality & continuity for economic and/or safety (people/equipment) reasons. The most typical transfer application concerns installations requiring switching to another power supply in the event of the loss of the mains network.

Mains / Genset (Standard) Mains / Mains (Standard) ATyS p M range from 40 to 160 A (4 poles) ATyS p range from 125 to 3200 A (3 & 4 poles)

- An ATSE can also be used to ensure power supply self-sufficiency for an isolated site such as a telecom relay.

Genset / Genset (on request)

ATyS M range from 40 to 160 A (4 poles) ATyS range from 125 to 3200 A (3 & 4 poles)
Bypass Switching Equipment

On normal/emergency changeover installations the ATyS Bypass solution provides a function which enables the bypassing and isolation of the Automatic Transfer Switching Equipment (ATSE), during maintenance periods, whilst ensuring no interruption of the supply to the load. This allows for the ATSE, which is subject to a high number of operations and risk of damage (lightning, high voltage fluctuation) due to its permanent connection to the mains, to be tested or replaced without any threat to the operator and without affecting the continuity of the supply.

SOCOMEC ATyS Bypass are available in 2 versions:

**Single Line Bypass**

Single Line Bypass comprises two elements, an ATSE and a one-way bypass/isolation switching arrangement.

**Double Line Bypass**

Double Line Bypass comprises two elements, an ATSE and a two-way bypass/isolation switching arrangement.

**Typical functioning**

**Normal position**

The load is supplied by Source 1 (normal) or Source 2 (emergency) through the ATSE.

**Bypass position**

The ATSE is bypassed and the load is supplied by Source 1 (SL or DL) or Source 2 (DL only) through the MTSE.

**Test position**

The load is not supplied by the ATSE but instead through the MTSE; the Automatic Transfer Switch can be tested without any interference to the load.
SOCOMEC proposes a complete enclosed ATyS Bypass range from 40 to 3200 A (4 poles in standard & 3 poles on request).

The ATyS Bypass system consists of two elements:

An Automatic Transfer Switch Equipment (ATSE) (with built-in microprocessor controller):
- 1 x ATyS p M (≤125A) or ATyS p (≥160A).

A Manual bypass/isolation switching arrangement:
- One-way / Single line:
  - 1 x Load Break Switch (LBS): SIRCO (M/VM) 8 poles
  - 1 x Manual Transfer Switch (MTSE): SIRCO M/VM1 or SIRCOVER
- Two-way / Double Line:
  - 1 x Load Break Switch (LBS): SIRCO (M/VM) 8 poles
  - 2 x Manual Transfer Switches (MTSE): SIRCO M/VM1 or SIRCOVER

SOCOMEC products are Made in France & the complete system is assembled in France.

General electrical characteristics

With:
- A large range [40 A / 3200 A].
- A broad voltage range.
- A broad frequency range [45 Hz / 65 Hz].

SOCOMEC ATS Bypass offer a solution for all types of installations and loads.

Switching

All these features apply to all SOCOMEC LBS, MTSE & ATSE.

- Switches with double-breaking per pole through a single moving contact bar, for low voltage applications.
- Secured disconnection integrated for load isolation, owing to doublebreak per pole switching technology with positive break indication.
- Integrated mechanical interlocking system.
- Silver plated & self cleaning contacts > maintenance free, with no inspection & replacement needed.
- High dynamic short circuit withstand (result after 10 short-circuits).
- Fully rated neutral in comparison with phases.
- Open transition: In order to avoid inrush currents in case of motor load.
- High number of operations according to IEC 60947-3/ 60947-6-1.
- Contacts are mechanically held at a constant pressure and are unaffected by voltage fluctuations, vibrations or repulsive force during short-circuits.
- Synchronised neutral opening & closing
  All contacts, including the neutral, are fitted on the same moving contact bar.
  Ensures neutral referencing & avoids surges. This is SOCOMEC’s solution to the overlapping neutral “requirement”.
- An alternative solution to make-before-break and break-before-make for neutral requirements.
Automatic Transfer Switch

**Mechanical parts**
- Integrated mechanical and electrical interlocking system.

- **The electrical mechanism** is a momentarily energised single operator.
- **Making & breaking speeds** are independent of the operating mode (manual & motorised).
- **Stable positions** unaffected by voltage fluctuations & vibrations.
- **Operator not powered in stable positions.**
  Operator is a momentarily energised mechanism > no consumption & extended operating life.
- **Operating mode selector** (AUT / MAN).

Open the front cover to activate manual mode

It is not possible to insert the manual operating handle in Auto mode.
- **Emergency manual operation facility** with handle.

- **Integrated mechanical padlocking system** for use in manual mode, position 0 only (all 3 positions on request).

Automatic & Manual operations are disabled in padlocked mode.
- **Easy maintenance.**
  Motor & control relay can be replaced on-load = no power loss.
  During maintenance operations, manual changeover is always possible.
Automatic Transfer Switch (continued)

Microprocessor controller

Embedded controller for Mains/Mains & Mains/Genset applications

Monitoring and control is provided by a single built-in microprocessor which is integrated into the ATSE. The controller is self-supplied by the mains and backup sources.

Two models according to rating:

ATyS p front face

User-Friendly interface

Facilities on both versions:

- **Configuration (password protection for access control):**
  - Installation parameter configuration.
  - Independent over/under voltage and over/under frequency thresholds (±20% of nominal values) & hysteresis.
  - Phase rotation and unbalance control.
  - Adjustable timers.

- **Display:**
  - Voltage measurements for both sources (according to the network type).
  - Frequency measurements for both sources.
  - Timers settings & countdowns.
  - Number of cycles & last events.
  - Remote reporting by digital outputs (dry contacts).

- **Control (password protection for access control):**
  - Changeover cycle automatic management.
  - Test on load & test off load facilities.
  - Remote control via digital inputs.

- **LED indicators:**
  - Power On.
  - Source availability.
  - Changeover positions.
  - "MAN / AUT" modes.
  - Test & control operations.
  - ATS fault.

These facilities are also accessible through RS485 MODBUS serial communication through a Slave JBUS/MODBUS protocol.

Measurements

Measurements are true RMS type for both sources.

**Voltage is accurate to 1% over the complete operating temperature range [-20°C > + 70°C].**

Thresholds & hysteresis

<table>
<thead>
<tr>
<th>Functions</th>
<th>Sources</th>
<th>Phases controlled</th>
<th>Default value</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over voltage (dropout / trip)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>3 Ph</td>
<td>115%</td>
<td>102 to 130%</td>
</tr>
<tr>
<td>Over voltage hysteresis (pickup / reset)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>3 Ph + N</td>
<td>110%</td>
<td>101 to 129%</td>
</tr>
<tr>
<td>Under voltage (dropout / trip)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>2 Ph</td>
<td>85%</td>
<td>60 to 98%</td>
</tr>
<tr>
<td>Under voltage hysteresis (pickup / reset)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>2 Ph + N</td>
<td>95%</td>
<td>60 to 99%</td>
</tr>
<tr>
<td>Over frequency (dropout / trip)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>1 Ph + N (Following network type definition)</td>
<td>103%</td>
<td>101 to 130%</td>
</tr>
<tr>
<td>Over frequency hysteresis (pickup / reset)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>1 Ph</td>
<td>97%</td>
<td>61 to 99.5%</td>
</tr>
<tr>
<td>Under frequency (dropout / trip)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>1 Ph + N (Following network type definition)</td>
<td>95%</td>
<td>60 to 99%</td>
</tr>
<tr>
<td>Under frequency hysteresis (pickup / reset)</td>
<td>1 &amp; 2 (N &amp; E)</td>
<td>3 Ph + N</td>
<td>97%</td>
<td>61 to 99.5%</td>
</tr>
</tbody>
</table>

- Nominal Voltage can be set from 180 to 480 VAC in 1 V increments.
- Nominal Frequency can be selected between 50 Hz and 60 Hz.
- Voltage thresholds & hysteresis can be set in 1% increments.

- Frequency threshold & hysteresis can be set in 0.5% increments.
- The controller also monitors phase rotation on both sources according to the configuration (3 phase networks).
Automatic Transfer Switch (continued)

Integrated RJ45 port for remote control interface (D20)
The remote control interface is integrated with SOCOMEC ATS Bypass.

Remote control (digital input)

**ATyS p M:**
- 3 programmable inputs (self-powered) for the following functions:
  - Inhibition mode,
  - Test on load & test off load,
  - Manual retransfer to inhibit automatic retransfer,
  - Changeover position control for the 3 positions (I-0-II),
  - Network priority,
  - Load shedding.
- …

**ATyS p:**
- Remote Control inputs for operation inhibit & position control.
  6 programmable inputs (self-powered) and up to 8 additional inputs with optional modules (2 per module) for the following functions:
    - Inhibition mode,
    - Test on load & test off load,
    - Manual retransfer to inhibit automatic retransfer,
    - Network priority,
    - Load shedding.
- …

Installation of up to 4 optional plug-in modules for:
- RS485 or Ethernet MODBUS communication (only 1 module),
- 2 Inputs/2 Outputs (up to 4 modules),
- Analogue outputs (only 1 module),
- Pulse outputs (only 1 module).

**RS485 MODBUS RTU serial communication port**
This communication link allows configuration, data extraction & remote control from a distance of up to 1200 meters.

Remote reporting (digital output) for BMS system:

**ATyS p M:**
- Auxiliary contacts (NO/NC for all 3 positions) (5 A AC1 250 VAC).
- 3 volt-free programmable outputs (0.5 A AC1 250 VAC) for the following functions:
  - Source 1/Source 2 availability,
  - Source on load,
  - Load shedding order,
  - Product availability (Auto mode + no fault + power supply).
- 1 bi-stable output for Genset start order (0.5 A AC 250 A).

**ATyS p:**
- Auxiliary contacts
  - 1 x NO contact for all 3 positions (2 A AC1 250 VAC).
  - Up to 2 x additional NO/NC contacts for positions I & II (2 A AC1 250 VAC).
- 1 dedicated Watchdog relay (2 A AC1 250 A).
- 1 volt-free programmable output (2 A AC1 250 A).
- Up to 8 additional volt-free outputs with optional modules (2 per module) (2 A AC1 250 A) for the following functions:
  - Source 1/Source 2 availability,
  - Source on load,
  - Load shedding order,
  - Product availability (Auto mode + no fault + power supply).
- 1 NO/NC bi-stable output for Genset start order (2 A AC1 250 A).

Timers & Automatic cycle

Timers Designations

<table>
<thead>
<tr>
<th>Timers</th>
<th>Designations</th>
<th>ATyS p M</th>
<th>ATyS p</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Names</td>
<td>Def. Values</td>
<td>Ranges</td>
</tr>
<tr>
<td>T1</td>
<td>Source 1 failure timer</td>
<td>1FT</td>
<td>3s</td>
</tr>
<tr>
<td>T2</td>
<td>Delay To Transfer on source 2 (only for genset)</td>
<td>2AT</td>
<td>5s</td>
</tr>
<tr>
<td>T3</td>
<td>0 position stay before transfer “failure”</td>
<td>ODT</td>
<td>3s</td>
</tr>
<tr>
<td>T4</td>
<td>Source 1 return timer before retransfer</td>
<td>1RT</td>
<td>180s</td>
</tr>
<tr>
<td>T5</td>
<td>0 position stay before transfer “return”</td>
<td>ODT</td>
<td>3s</td>
</tr>
<tr>
<td>T6</td>
<td>Cool down timer before generator set shutdown</td>
<td>2CT</td>
<td>180s</td>
</tr>
<tr>
<td></td>
<td>Load shedding timer</td>
<td>LST</td>
<td>4s</td>
</tr>
</tbody>
</table>

All time delays are adjustable in 1sec increments for timers based on seconds and in 0.1 min increments for timers based on minutes.
Bypass Isolation Switch

SOCOMEC ATYS Bypass solutions comprise Open Transition type Automatic Transfer Switching Equipment which provide automatic transfer between sources and permit the bypassing and complete isolation of the ATS for maintenance and test purposes.

**ATYS Single Line Bypass**

![ATYS Single Line Bypass Diagram]

**ATYS Double Line Bypass**

![ATYS Double Line Bypass Diagram]

**General features for Single Line (SL) & Double Line (DL) Bypass:**

- **ATS mode**
  
  In Normal (automatic) mode the bypass circuit is open therefore will not be subject to fault currents.
  
  All changeover functionalities are ensured by the ATS.

- **Bypass mode**
  
  Bypass is achieved manually with 2 handles for SL and 3 handles for DL, without the need for key interlocking.
  
  - One handle (Q1) to operate between ATS mode & bypass mode.
  
  - One handle (Q2) to isolate Source 1 & Load from the ATS; permits tests to be performed after maintenance.
  
  - One handle (Q3) to select Source 2 in Bypass mode (only with DL version).

- **Three possible operating modes**:
  
  - Normal (ATS)
  
  - Bypass (on mains or emergency)
  
  - Test

**Safe Utilisation - No critical position can be reached by the operator.**

- **Power terminal disconnection**

  All power connections to the ATS can be easily removed with standard tools.

- **Protection Screen**

  Even with the panel door open, protection screens ensure total protection against direct contact with live parts; all parts under voltage are protected.

- **Busbar identification**

  Provides clear identification of the different phases in order to avoid connection mistakes. The busbar colour code ensures consistency with the indicator lamps on the optional mimic diagram.

- **Easy replacement of ATS (from 630 to 3200 A)**

  A Slide-out mechanism enables safe replacement of the ATS, with simplified handling and in the minimum time.
Cables entries
• Steel enclosure (up to 400 A)
  With the standard solution the incoming cables, from the sources, and the outgoing cables, to the load, enter and terminate at the bottom of the enclosure.

• Steel cabinet (from 630 A)
  With the standard solution the incoming and outgoing cables enter and terminate at the bottom of the cabinet. An optional side extension cabinet is available to allow cable entry at the top.

Indicators
• ATyS D20 remote interface
  The ATyS D20 remote interface provides the following information:
  - Source 1 availability (confirmed by ATS measurements),
  - Source 2 availability (confirmed by ATS measurements),
  - ATS position indication I, 0, II,
  - ATS mode (auto, manual, programming, test, control).

• Mimic diagram (standard) - 3 LEDs
  Provides source availability indication:
  - Availability of Source 1 & Source 2,
  - Supply to load.

• Full Mimic diagram (option) - 15/17 LEDs
  Provides source availability and ATyS Bypass position indication:
  - Availability of each phase both Source 1 & Source 2,
  - Supply to load for all three phases,
  - Normal/Bypass position,
  - ATS position.

The full synoptic comprises 15 LEDs for SL and 17 LEDs for DL Bypass (16 mm industrial grade LEDs optional).
Component presentation according to rating

Switching equipments

<table>
<thead>
<tr>
<th>Functions</th>
<th>QTY</th>
<th>40 to 80 A</th>
<th>100 &amp; 125 A</th>
<th>160 to 3200 A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATS</strong> Automatic Transfer Switch</td>
<td>1</td>
<td><img src="image" alt="ATyS p M" /></td>
<td><img src="image" alt="ATyS p M" /></td>
<td><img src="image" alt="ATyS p" /></td>
</tr>
<tr>
<td><strong>LBS</strong> Load Break Switch</td>
<td>1</td>
<td><img src="image" alt="SIRCO M 8 P" /></td>
<td><img src="image" alt="SIRCO VM 8 P" /></td>
<td><img src="image" alt="SIRCO 8 P" /></td>
</tr>
<tr>
<td><strong>MTS</strong> Manual Transfer Switch</td>
<td>1 / 2(1)</td>
<td><img src="image" alt="SIRCO M" /></td>
<td><img src="image" alt="SIRCO VM1" /></td>
<td><img src="image" alt="SIRCOVER" /></td>
</tr>
<tr>
<td><strong>HMI</strong> Human Machine Interface</td>
<td>1</td>
<td><img src="image" alt="Mimic Diagram + D20" /></td>
<td><img src="image" alt="Mimic Diagram + D20" /></td>
<td><img src="image" alt="Mimic Diagram + D20" /></td>
</tr>
</tbody>
</table>

(1) For double line version.

Enclosure Dimensions

<table>
<thead>
<tr>
<th>Ratings (A)</th>
<th>Dimensions H x W x D (mm)</th>
<th>Type</th>
<th>Ingress Protection</th>
<th>Cable entry In/Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 ... 80</td>
<td>800 x 800 x 300</td>
<td>Steel Enclosure</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>100 ... 125</td>
<td>1000 x 800 x 300</td>
<td>Steel Enclosure</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>160</td>
<td>1000 x 800 x 400</td>
<td>Steel Enclosure</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>250 ... 400</td>
<td>1200 x 1000 x 550</td>
<td>Steel Enclosure</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>630</td>
<td>1600 x 1200 x 600</td>
<td>Steel Cabinet</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>800 ... 1000</td>
<td>1800 x 1600 x 800</td>
<td>Steel Cabinet</td>
<td>Std: IP41</td>
<td>B / B</td>
</tr>
<tr>
<td>1250 ... 3200</td>
<td>2360 x 2000 x 1000</td>
<td>Steel Cabinet</td>
<td>Std: IP41</td>
<td>B / B or T / T in option</td>
</tr>
</tbody>
</table>

References

**Product**

178: ATyS Bypass

**Type**

5: Single line
6: Double line

**Number of poles**

4: 4 poles

**Rating**

004: 40 A
006: 63 A
008: 80 A
010: 100 A
012: 125 A
016: 160 A
025: 250 A
040: 400 A
063: 630 A
080: 800 A
100: 1000 A
125: 1250 A
160: 1600 A
200: 2000 A
250: 2500 A
320: 3200 A
Documentation & support provided

- Product selection & definition according to the total rated load and environmental conditions.
- Electrical drawings.
- Mechanical drawings.
- ATS instruction manual & troubleshooting guide.
- Certificate of compliance with the standards.
- Test report.

Codes & Standards

The products meet the applicable European directive and they are marked:

COMEC ATyS Bypass and their components are compliant with the applicable international IEC directives:

Low-voltage switchgear and controlgear assemblies:
- IEC 61439-1: General rules.
- IEC 61439-2: Power switchgear and controlgear assemblies.

LOVAG / ASEFA Third-party-certified in accordance with IEC 61439:

Electromagnetic Compatibility (EMC):

- Emission general standard.
- EN 55022: Conducted emission.
- EN 55022: Radiated emission.

Immunity general standard:

<table>
<thead>
<tr>
<th>Description</th>
<th>Std (IEC)</th>
<th>Requirement (criteria)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted</td>
<td>CISPR 11</td>
<td>Class B</td>
</tr>
<tr>
<td>Radiated</td>
<td>CISPR 11</td>
<td>Class B</td>
</tr>
<tr>
<td>ESD contact</td>
<td>61000-4-2</td>
<td>4 kV (B)</td>
</tr>
<tr>
<td>ESD air</td>
<td>61000-4-2</td>
<td>8 kV (B)</td>
</tr>
<tr>
<td>Electromagnetic field</td>
<td>61000-4-3</td>
<td>10 V/m (A)</td>
</tr>
<tr>
<td>RF Conducted</td>
<td>61000-4-6</td>
<td>10 V (A)</td>
</tr>
<tr>
<td>Burst</td>
<td>61000-4-4</td>
<td>2 kV (A) power</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 kV (A) control</td>
</tr>
<tr>
<td>Surge differential</td>
<td>61000-4-5</td>
<td>1 kV (A)</td>
</tr>
</tbody>
</table>

Others international directives:

- NBN EN 60947-3
- BS EN 60947-3
- GB 14048-3
- NBN EN 60947-6-1
- BS EN 60947-6-1
- GB 14048-11
- VDE 0660-107
Power measurements
As an option, SOCOMEC ATyS Bypass can be equipped with measurement devices to allow power management.

Optional & additional features

Remote ATyS Bypass management
As standard, SOCOMEC ATyS Bypass are provided with RS485 MODUS serial communication.
In order to extend communication facilities, an optional Ethernet module can be fitted to the ATS (≥160A) in order to provide the following functions:
- Alarm management.
- Data logging.
- Remote control.
- Webserver.
- …
Optional & additional features (continued)

Extension cabinet (1250 to 3200 A)
As standard, source cable entry is at the bottom with load cables exiting at the top or bottom. In order to allow source cable entry at the top, a side extension cabinet can be provided.

Lightning protection
In order to ensure protection and availability of the ATyS Bypass, SOCMOEC offers optional lightning protection devices.

Environment

Utilisation and storage conditions:

Ingress protection:
The standard solution is IP41. Other IP ratings are available on request.

Operation:
- Temperature:
  - [-20°C to +70°C]: Above +40°C a de-rating must be applied in accordence with IEC 60947-3.
- Hygrometry:
  - 80% humidity without condensation at 55°C.
  - 95% humidity without condensation at 40°C.
- Altitude:
  - Maximum altitude without de-rating = 2000 m.

Storage:
- Temperature: [-20°C to +55°C (≤125A) / -20 to +70°C (≥160A)]
- Period: Maximum 1 year (without supplying both ATS power supplies).

Tinned bus bar
Internal connections are made with untreated copper bars. For aggressive environments, tinned busbars can be provided (option).
Socomec: our innovations supporting your energy performance

1 independent manufacturer
3,200 employees worldwide
10% of sales revenue dedicated to R&D
400 experts dedicated to service provision

Your power management expert

- 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

The specialist for critical applications

A worldwide presence

8 production sites
- France (x3)
- Italy
- Tunisia
- India
- China (x2)

27 subsidiaries
- Australia • Belgium • China • France
- Germany • India • Italy • Netherlands
- Poland • Romania • Singapore
- Slovenia • Spain • Switzerland • Thailand
- Tunisia • Turkey • UK • USA

80 countries where our brand is distributed

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