

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.



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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).

General presentation

Transfer Switching Equipment

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**.



IEC 60947-6-1

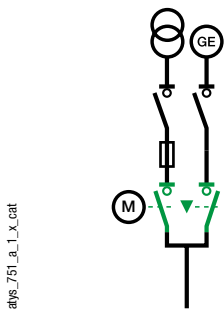
Edition 2.1 2013-12

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

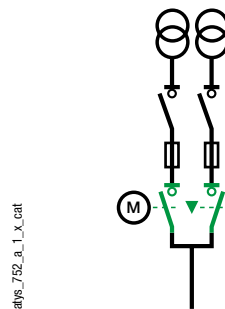
Applications & ATSE solutions

- 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)

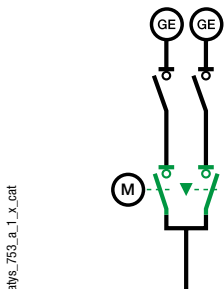


ATyS p range
from 125 to 3200 A (3 & 4 poles)



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

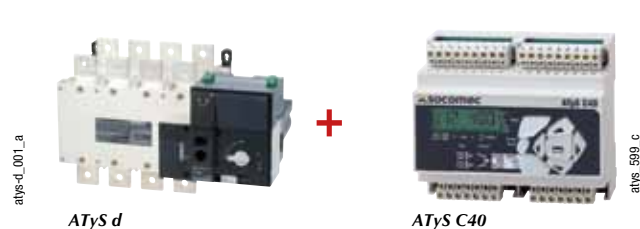
Genset / Genset (on request)



ATyS M range from 40 to 160 A (4 poles)



ATyS range from 125 to 3200 A (3 & 4 poles)



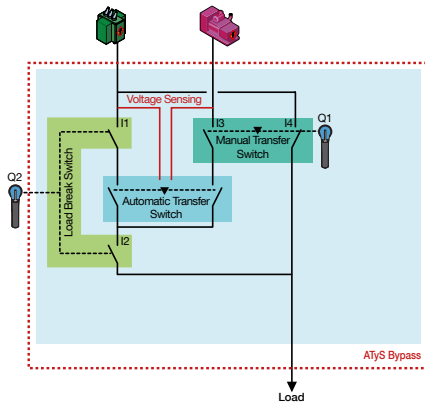
Bypass Switching Equipment

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**.

SOCOMECA ATyS Bypass are available in 2 versions:

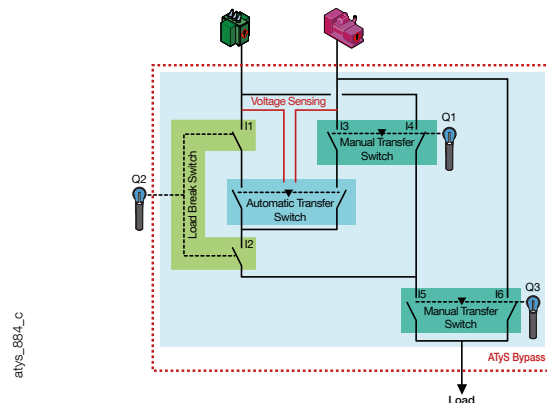
Single Line Bypass

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



Double Line Bypass

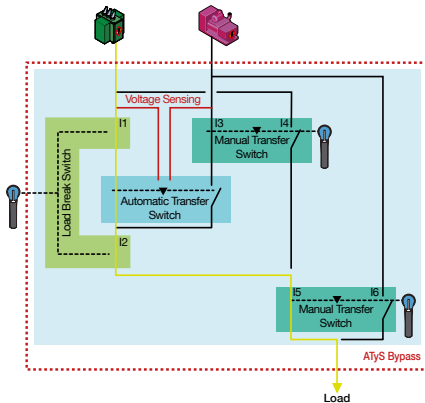
Double Line Bypass comprises two elements, an ATSE and a **two-way** bypass/isolation switching arrangement.



Typical functioning

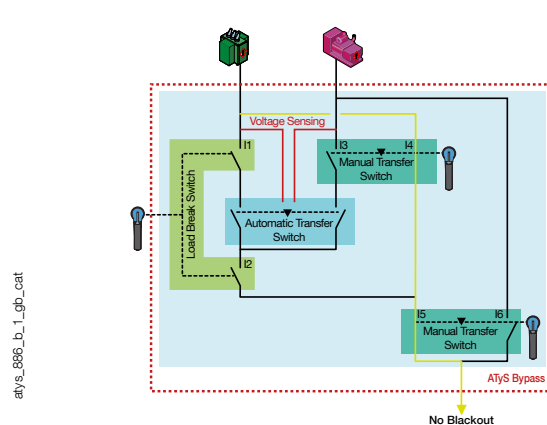
Normal position

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



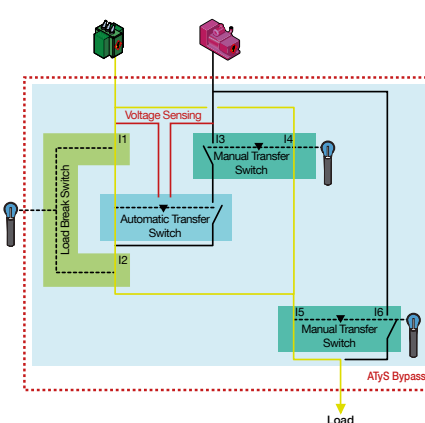
Bypass position

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.



Technical presentation

Standard features

Introduction

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** ($\leq 125A$) or **ATyS p** ($\geq 160A$).

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].

Power supply from:

- P-N 160 VAC to 305 VAC (40 to 125 A).
- P-N 166 VAC to 332 VAC (160 to 3200 A).

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

Switching

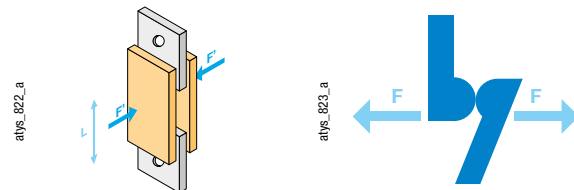
All these features apply to all SOCOMECS LBS, MTSE & ATSE.

- Switches with double-breaking per pole through a single moving contact bar, for low voltage applications.
- Secured disconnection integrated for load isolation, owing to double-break per pole switching technology with positive break indication.
- High number of operations according to IEC 60947-3/ 60947-6-1.
- On-load Making & Breaking capacity.
- Contacts are mechanically held at a constant pressure and are unaffected by voltage fluctuations, vibrations or repulsive force during short-circuits.



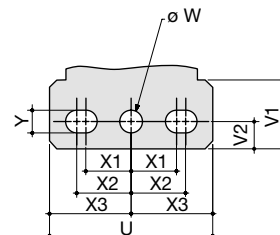
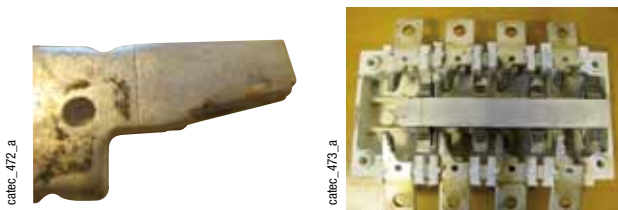
SOCOMECS sliding contacts

Contactors & circuit breakers



- **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).

- **Synchronised neutral opening & closing**
All contacts, including the neutral, are fitted on the same moving contact bar.
- Ensures neutral referencing & avoids surges. This is SOCOMECS's solution to the overlapping neutral "requirement".



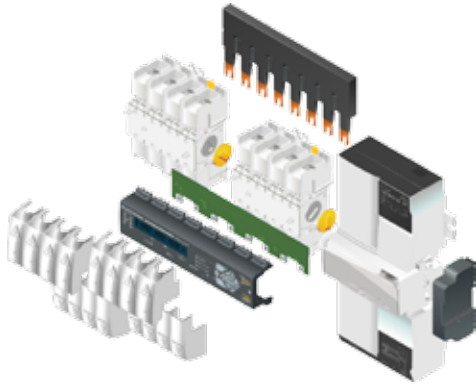
- **Fully rated neutral** in comparison with phases.
- **Open transition:** In order to avoid inrush currents in case of motor load.

An alternative solution to make-before-break and break-before-make for neutral requirements.

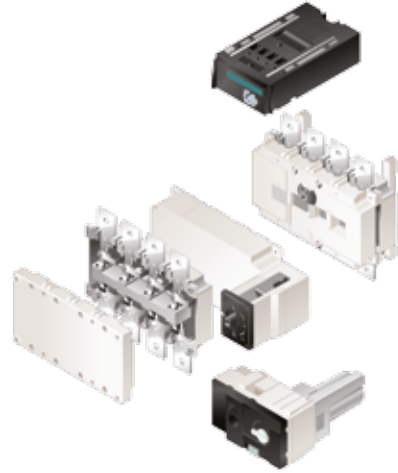
Automatic Transfer Switch

Mechanical parts

- Integrated mechanical and electrical interlocking system.



atys-pm_003_a.psd



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- 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



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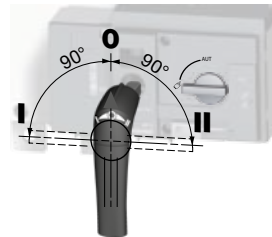
atys_836_a_1_cat

It is not possible to insert the manual operating handle in Auto mode.

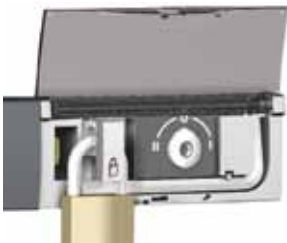
- **Emergency manual operation facility** with handle.



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



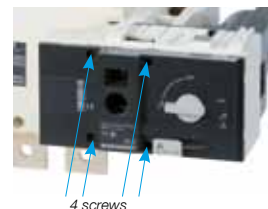
atysm_016_c_1_cat



atys_836_a_1_cat

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.



atys_836_a

4 screws

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 M front face



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 ($\pm 20\%$ 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 $[-20^{\circ}\text{C} > +70^{\circ}\text{C}]$.

The frequency is accurate to 0.1% over the complete operating temperature range $[-20^{\circ}\text{C} > +70^{\circ}\text{C}]$.
These measurements are continuously monitored.

Thresholds & hysteresis

Functions	Sources	Phases controlled	Default value	Range
Over voltage (dropout / trip)	1 & 2 (N & E)	3 Ph 3 Ph + N 2 Ph 2 Ph + N 1 Ph + N (Following network type definition)	115%	102 to 130%
Over voltage hysteresis (pickup / reset)			110%	101 to 129%
Under voltage (dropout / trip)			85%	60 to 98%
Under voltage hysteresis (pickup / reset)			95%	60 to 99%
Over frequency (dropout / trip)			105%	101 to 130%
Over frequency hysteresis (pickup / reset)			103%	100.5 to 129%
Under frequency (dropout / trip)			95%	60 to 99%
Under frequency hysteresis (pickup / reset)			97%	61 to 99,5%

- 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-O-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:

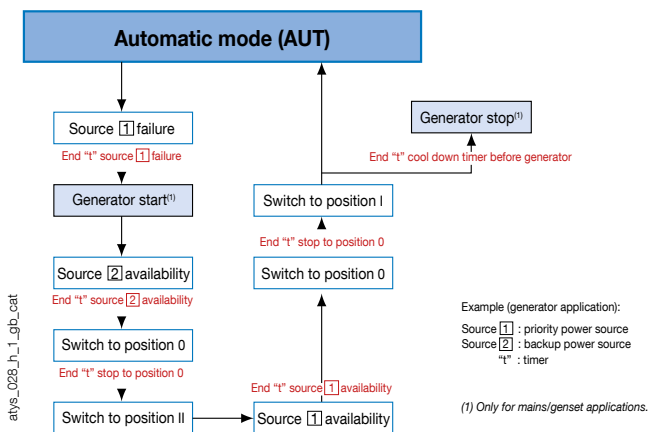
ATyS p M:

- Auxiliary contacts (NO/NC for all 3 positions) (5 A AC1 250 VAC).
- 3 volt-free programmable outputs (0.5 A AC1 250A) 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 AC1 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



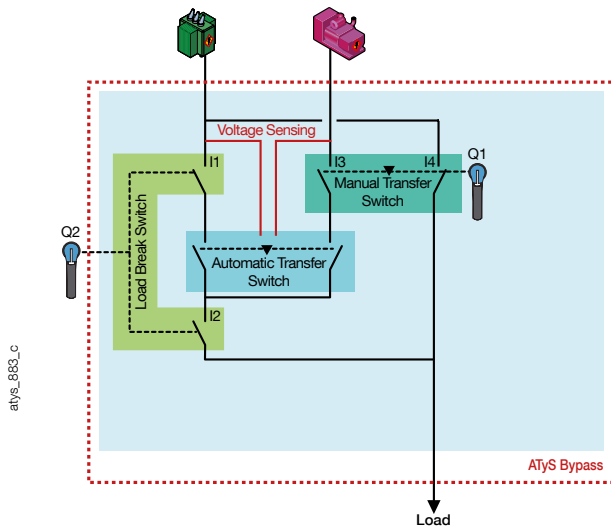
Timers	Designations	ATyS p M			ATyS p		
		Names	Def. Values	Ranges	Names	Def. values	Ranges
T1	Source 1 failure timer	1FT	3s	(0 to 60s)	1FT	3s	(0 to 60s)
T2	Delay To Transfer on source 2 (only for genset)	2AT	5s	(0 to 60s)	2AT	5s	(0 to 3600s)
T3	0 position stway before transfer "failure"	ODT	3s	(0 to 20s)	ODT	3s	(0 to 20s)
T4	Source 1 return timer before retransfer	1RT	180s	(0 to 3600s)	1RT	180s	(0 to 3600s)
T5	0 position stay before transfer "return"	ODT	3s	(0 to 20s)	ODT	3s	(0 to 20s)
T6	Cool down timer before generator set shutdown	2CT	180s	(0 to 600s)	2CT	180s	(0 to 600s)
	Load shedding timer	LST	4s	(0 to 60s)	LST	4s	(0 to 60s)

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

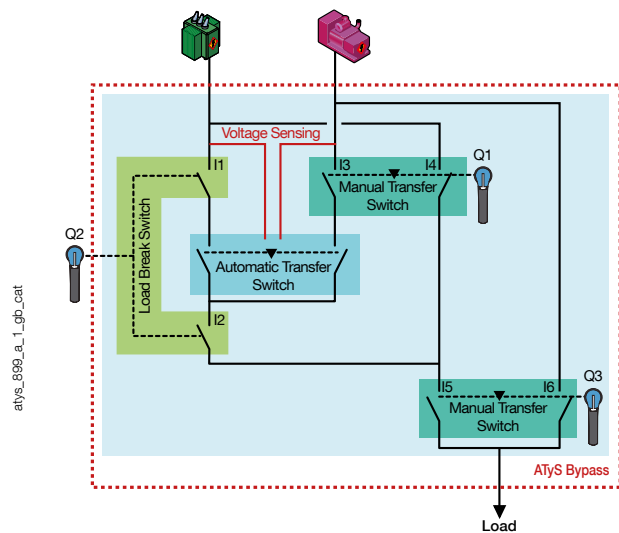
Bypass Isolation Switch

SOCOMECA 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 Double Line Bypass



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. Operation into Bypass makes a parallel connection between Source 1 and the Load and also isolates Source 2 from the ATS.

- 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.

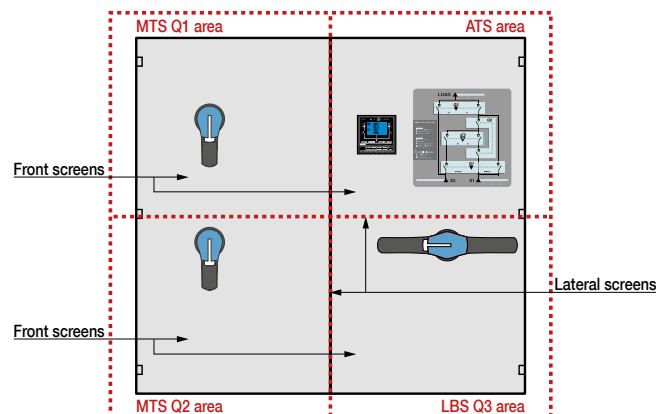
Safe Utilisation - No critical position can be reached by the operator.

• 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.



• 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.



• 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.

Bypass Isolation Switch (continued)

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, O, II),
- ATS mode (auto, manual, programming, test, control).



- **Mimic diagram (standard) - 3 LEDs**

Provides source availability indication:

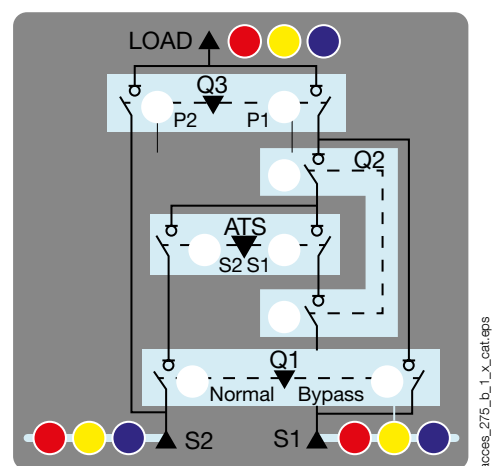
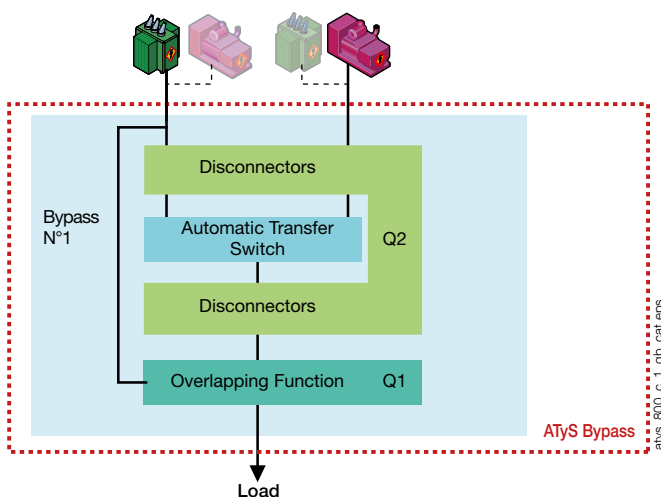
- Availability of Source 1 & Source 2,
- Supply to load.

- **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).



Technical presentation

Component presentation according to rating

Switching equipments

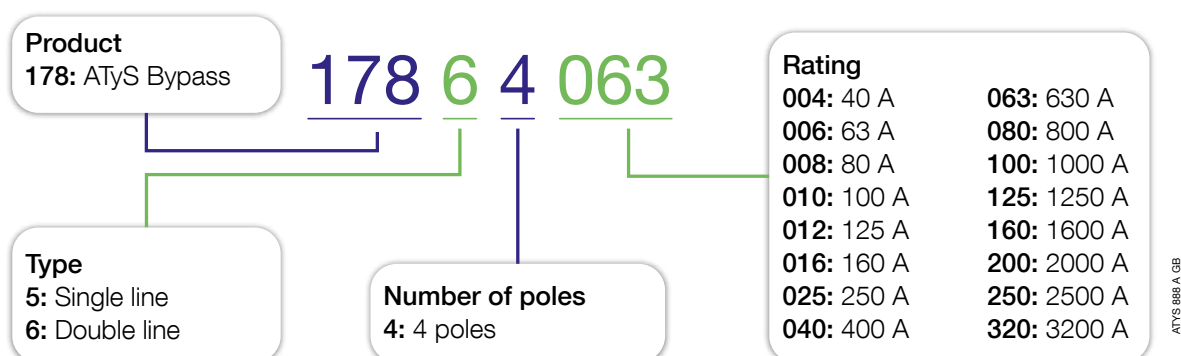
Functions	QTY	40 to 80 A	100 & 125 A	160 to 3200 A
ATS Automatic Transfer Switch	1	<i>ATyS p M</i> 	<i>ATyS p M</i> 	<i>ATyS p</i> 
LBS Load Break Switch	1	<i>SIRCO M 8 P</i> 	<i>SIRCO VM 8 P</i> 	<i>SIRCO 8 P</i> 
MTS Manual Transfer Switch	1 / 2 ⁽¹⁾	<i>SIRCO M</i> 	<i>SIRCO VM1</i> 	<i>SIRCOVER</i> 
HMI Human Machine Interface	1	Mimic Diagram + <i>D20</i> 	Mimic Diagram + <i>D20</i> 	Mimic Diagram + <i>D20</i> 

(1) For double line version.

Enclosure Dimensions

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

References



Documentation & support provided

- Product selection & definition according to the total rated load and environmental conditions.
- Electrical drawings.
- Mechanicals 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:



Low-voltage switchgear and controlgear:

- IEC 60947-1: General rules.
- IEC 60947-3: Switches, Disconnectors, switch-disconnectors and fuse-combination units
- IEC 60947-6-1: Multiple function equipment transfer switching equipment

Electromagnetic Compatibility (EMC):

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

Immunity general standard:

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

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

Technical presentation

Optional & additional features

Power measurements

As an option, SOCOMEC ATyS Bypass can be equipped with measurement devices to allow power management.

							
		DIRIS A-10	DIRIS A-20	DIRIS A-30	DIRIS A-40 Modbus	DIRIS A-40 Modbus + Profibus	DIRIS A-40 Modbus + Ethernet
General characteristics	Functions	CURRENT TRANSFORMERS			SMART SENSORS		
	Number of loads	1	1	1	1		
	Mounting	DIN	96 x 96	96 x 96	96 x 96		
	Power supply	AC	AC	AC/DC	AC		
	All In One	•			•		
	Optional modules		•	•			
	Ethernet (Modbus TCP / Bacnet IP)	0 / -	0 / -	0 / -	- / -	- / -	• / •
	RS485 (Modbus / Bacnet MSTP)	• / -	• / -	• / -	• / -	• / -	• / -
	Profibus DPV1			0	-	•	-
	Webserver / File export	0 / -	0 / 0	0 / 0	0 / 0	0 / 0	• / •
Monitor the electrical installation	Max. number of inputs (digital / analogue)	1 / -	3 / -	6 / 4	3 / -		
	Max. number of outputs (digital / analogue)	1 / -	1 / -	6 / 4	2 / -		
Check the power quality	4-quadrant energy metering	•	•	•	•		
	Load curves (local memory)			0	•		
	Multi-tariff management	2			4		
	Instantaneous, average, min and max values	•	•	•	•		
Contrôler la qualité de l'énergie	Voltage unbalance measurement			•	•		
	Neutral current (measured / calculated)	- / •	- / •	- / •	- / •		
	Harmonic analysis (THD / Individual)	• / -	• / -	• / •	• / •		
	Dip and swell detection				•		
Manage the loads	Overcurrent detection				•		
	Operating hours	•	•	•	•		
	Number of operations (info / alarm)		• / -	• / -	• / •		
	Protective device monitoring (on / off / tripped)	•	•	•	•		
	Predictive power analysis and load shedding			•	•		

• : intégré au produit. 0 : en option via DIRIS-G ou modules.

Remote ATyS Bypass management

As standard, SOCOMEC ATyS Bypass are provided with RS485 MODBUS serial communication.

In order to extend communication facilities, an optional Ethernet module can be fitted to the ATS ($\geq 160A$) 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.

kdrys_504_a_2_cat



Tinned bus bar

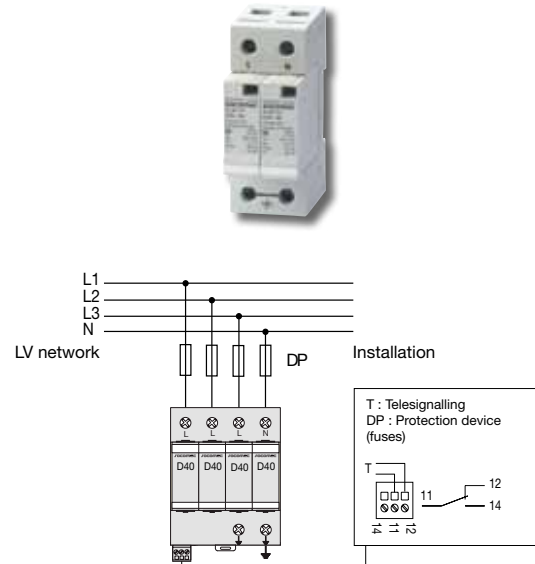
Internal connections are made with untreated copper bars. For aggressive environments, tinned busbars can be provided (option).

kdrys_504_a_2_cat

kdrys_504_a_2_cat

Lightning protection

In order to ensure protection and availability of the ATyS Bypass, SOCOMEC 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 accordance 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 ($\leq 125A$) / -20 to +70°C ($\geq 160A$)]
- Period: Maximum 1 year (without supplying both ATS power supplies).

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