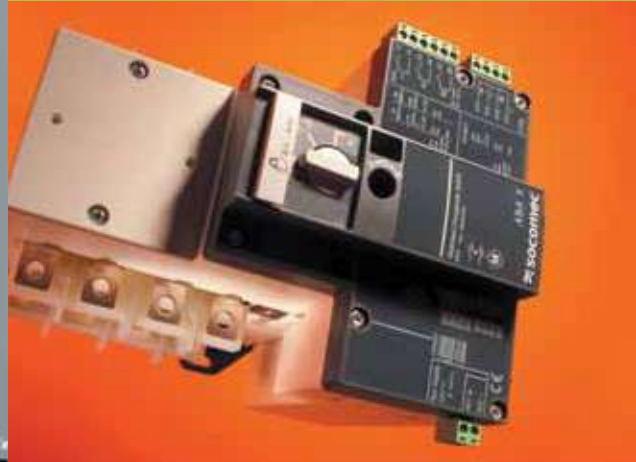
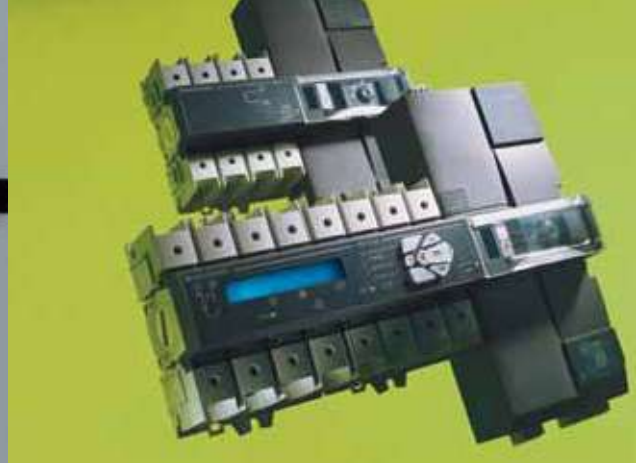


# Typical Automatic Transfer Switch diagrams



# Summary

Standard Diagrams	2
- TRANSFER BETWEEN 2 SOURCES - 1 Bus bar	
- TRANSFER BETWEEN 2 SOURCES - 2 Bus bars	
- TRANSFER BETWEEN 2 SOURCES - 3 Bus bars	
- TRANSFER BETWEEN 2 SOURCES - 4 Bus bars	
- TRANSFER BETWEEN 3 SOURCES - 1 Bus bar	
- TRANSFER BETWEEN 3 SOURCES - 2 Bus bars	
ATyS & ATyS M Benefits	13
- Changeover Systems : SOCOMEC technologies Benefits	
- Changeover Systems : Applications	
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- Functions & Compositions	
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## Standard ATS Diagrams

### Purpose of the document

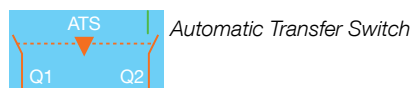
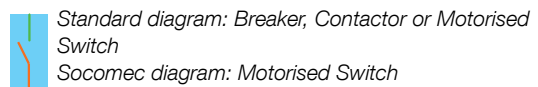
The purpose of this document is to propose a technical solution based on SOCOMEC motorised changeovers and switches to answer the greatest number of standard ATS diagrams made with others technologies.

### Choosing the right changeover switch

Socomec changeover switches aim at ensuring ever more efficient ways to guarantee the continuity of distribution and, therefore, the rate of availability of your energy. Those changeover switches can be used not just for Normal/ Backup operation, but also for managing the switching of loads or the connection of equipment to earth. In addition to the rating and the related electrical breaking specifications, the selection criteria are:

- . type of control
- . installation constraints inside the enclosure...

### Glossary

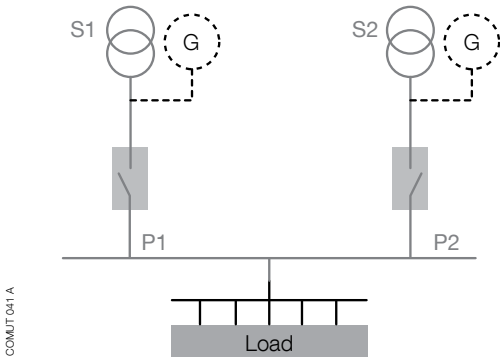


# Standard Diagrams

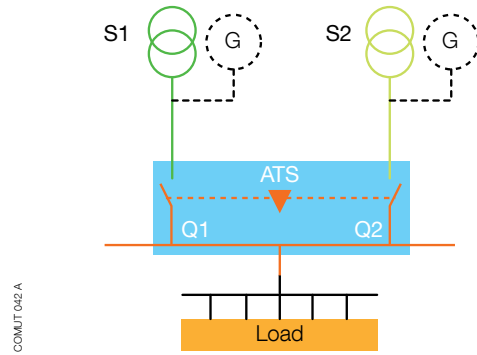
Transfer between 2 sources - 1 Bus bar

$$S1 \text{ (kVA)} = S2 \text{ (kVA)}$$

## Standard solution



## SOCOMEK solution



## Operating table

S1	S2	STD	SOCOMEK	Load
0	0	X	X	Off
0	1	P2	Q2	On
1	0	P1	Q1	On
1	1	*	*	On

\* Depending on networks priority

## Socomec products

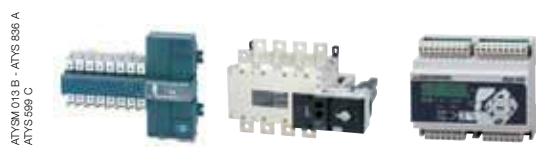
### Mains/Mains – Mains/Gen :

- ATyS M6s or M6e, ATyS t, g or p



### Gen/Gen

- ATyS M3s, ATyS or ATyS d, ATyS S + C40



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30



## Advantage of Socomec solution

### Operation

- Only one emergency handle
- Secured padlocking system

### Implementation

- Only one product (built-in solution)
- Compacity
- Plug and play
- Mechanical and electrical interlocking are in build

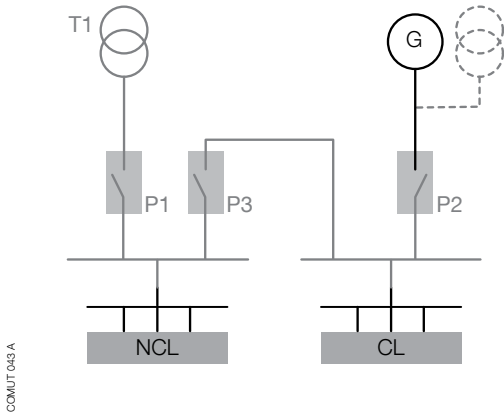
# Standard Diagrams

## Transfer between 2 sources - 2 Bus bars

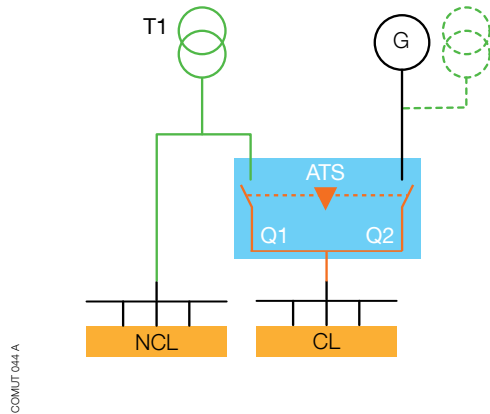
1) Sources are usually 1 transformer and 1 genset : loads are split between critical and non critical

First type of architecture :  $S1 \text{ (kVA)} > SG \text{ (kVA)}$

### Standard solution

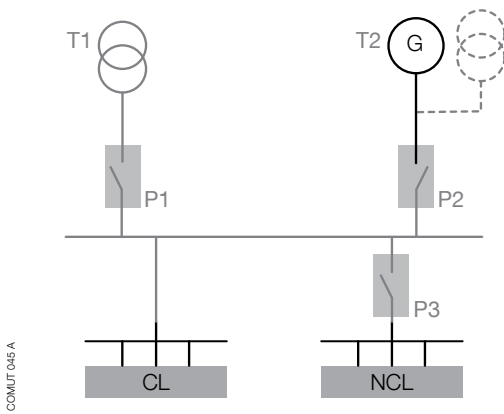


### SOCOMEK solution

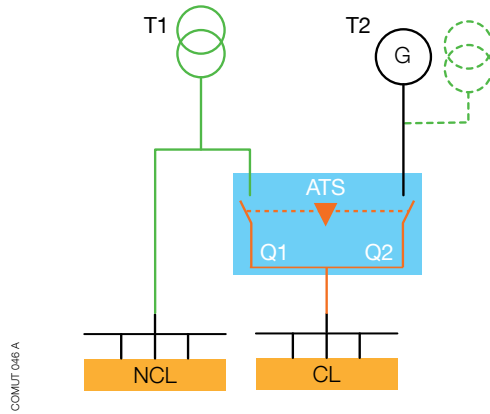


Second type of architecture :  $S1 \text{ (kVA)} > S2 \text{ (kVA)}$

### Standard solution



### SOCOMEK solution



### Operating table

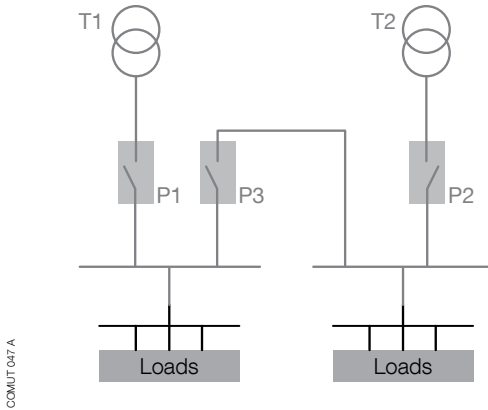
T1	G	STD	SOCOMEK	NCL	CL
0	0	X	X	Off	Off
0	1	P2	Q2	Off	On
1	0	P1 + P3	Q1	On	On

## Transfer between 2 sources - 2 Bus bars (continued)

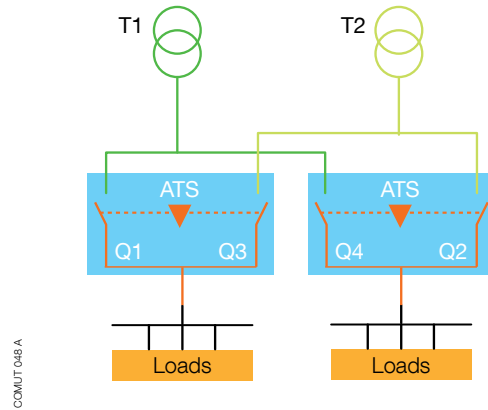
2) Sources are 2 transformers : loads aren't differentiated

$$S1 \text{ (kVA)} = S2 \text{ (kVA)}$$

### Standard solution



### SOCOMEK solution



### Operating table

T1	T2	STD	SOCOMEK	L
0	0	X	X	Off
0	1	P2 + P3	Q2 + Q3	On
1	0	P1 + P3	Q1 + Q4	On
1	1	P1 + P2	Q1 + Q2	On

### Socomec products

#### Mains/Mains – Mains/Gen :

- ATyS M6s or M6e, ATyS t, g or p



#### Motorised switch as option on Non Critical Loads

- SIRCO MOT AT



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30



### Advantage of Socomec solution

#### Operation

- Only one emergency handle (2 in the last case)
- Secured padlocking system
- In the first case (between transformer and genset), a motorised switch can be added on the Non Critical Loads for optional disconnection

#### Implementation

- Fewer products
- Compacity (built -in solution)
- Plug and play
- Mechanical and electrical interlocking are in build.

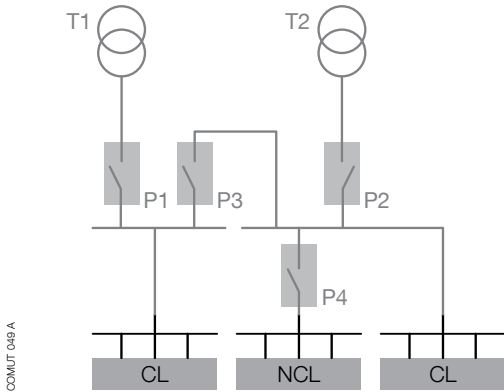
# Standard Diagrams

## Transfer between 2 sources - 3 Bus bars

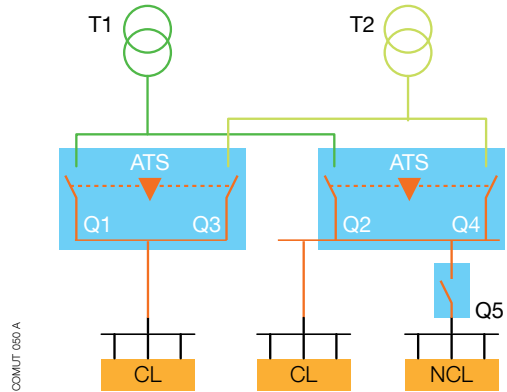
1) Sources are 2 transformers

$$S1 \text{ (kVA)} = S2 \text{ (kVA)}$$

**Standard solution**



**SOCOMEK solution**



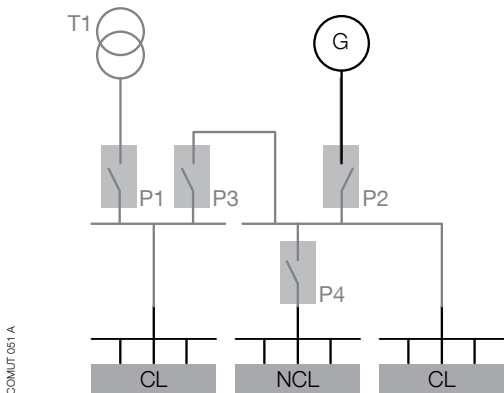
**Operating table**

T1	T2	STD	SOCOMEK	CL	NCL
0	0	X	X	Off	Off
0	1	P2 + P3	Q3 + Q4	On	Off
1	0	P1 + P3	Q1 + Q2	On	Off
1	1	P1 + P2 + P4	Q1 + Q4 + Q5	On	On

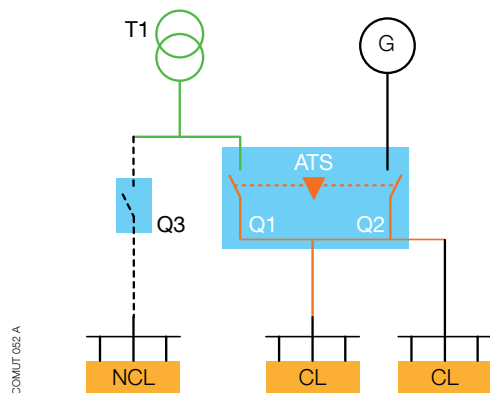
2) Sources are 1 transformer and 1 genset

$$S1 \text{ (kVA)} > S2 \text{ (kVA)}$$

**Standard**



**SOCOMEK**



**Operating table**

T1	T2	STD	SOCOMEK	CL	NCL
0	0	X	X	Off	Off
0	1	P2 + P3	Q2	On	Off
1	0	P1 + P3 + P4	Q1 + Q3	On	On

## Transfer between 2 sources - 3 Bus bars (continued)

### Socomec products

#### Mains/Mains – Mains/Gen :

- ATyS M6s or M6e, ATyS t, p, g

ATYSM 007 A - ATYS 1001 A



#### Motorised switch as option on Non Critical Loads

- SIRCO MOT AT

SIRCO 310 B



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30

ATYSM 013 B - ATYS 808 A  
ATYS 448 B



### Advantage of Socomec solution

#### Operation

- Only 2 or 3 emergency handles instead of 4
- Redundancy of P3
- Secured padlocking system
- In the second case (between transformer and genset), a motorized switch can be added on the Critical Loads for optional disconnection

#### Implementation

- Fewer products
- Compactness (built-in solution)
- Plug and play
- Mechanical and electrical interlocking are in build

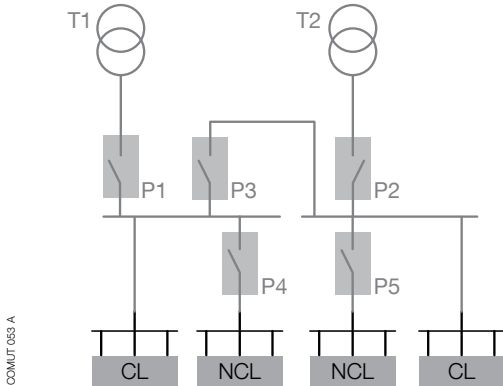
# Standard Diagrams

## Transfer between 2 sources - 4 Bus bars

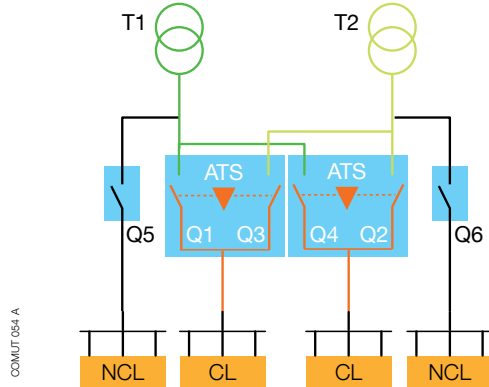
1) Sources are 2 transformers

S1 (kVA) = S2 (kVA)

### Standard solution



### SOCOMEK solution



### Operating table

T1	T2	STD	SOCOMEK	CL	NCL
0	0	X	X	Off	Off
0	1	P2 + P3	Q2 + Q3	On	Off
1	0	P1 + P3	Q1 + Q4	On	Off
1	1	P1 + P2 + P4 + P5	Q1 + Q2 + Q5 + Q6	On	On

### Socomec products

#### Mains/Mains – Mains/Gen :

- ATyS M6s or M6e, ATyS t, g or p



#### Motorised switch as option on Non Critical Loads

- SIRCO MOT AT



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30



### Advantage of Socomec solution

#### Operation

- Only 4 emergency handles instead of 5
- Redundancy of P3
- Secured padlocking system

#### Implementation

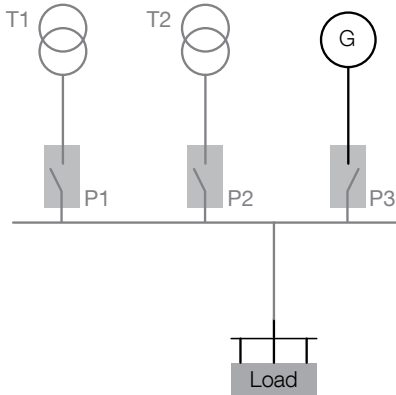
- Fewer products
- Compactness (built-in solution)
- Plug and play
- Mechanical and electrical interlocking are in build



## Transfer between 3 sources - 1 Bus bar

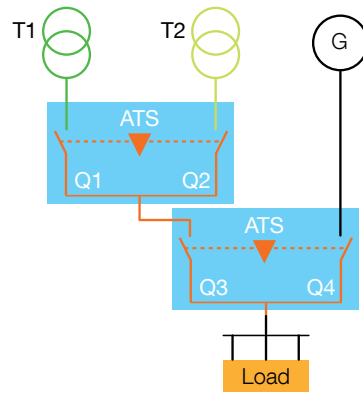
$$S1 \text{ (kVA)} = S2 \text{ (kVA)} = SG \text{ (kVA)}$$

### Standard solution



COMJUT 055 A

### SOCOMEK solution



COMJUT 056 A

## Operating table

### Standard

T1	T2	G	STD	SOCOMEK	Load
0	0	0	X	X	Off
1	0	0	P1	Q1 + Q3	On
0	1	0	P2	Q2 + Q3	On
0	0	1	P3	Q4	On

## Socomec products

### Mains/Mains – Mains/Gen :

- ATyS M6s or M6e, ATyS t, g or p

ATYSM 007 A - ATYS 1 001 A



### Gen/Gen

- ATyS M3s, ATyS or ATyS d, ATyS S + C40

ATYSM 013 B - ATYS 836 A  
ATYS 448 B



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30

ATYSM 013 B - ATYS 836 A  
ATYS 448 B



## Advantage of Socomec solution

### Operation

- Only 2 emergency handles instead of 3
- Secured padlocking system

### Implementation

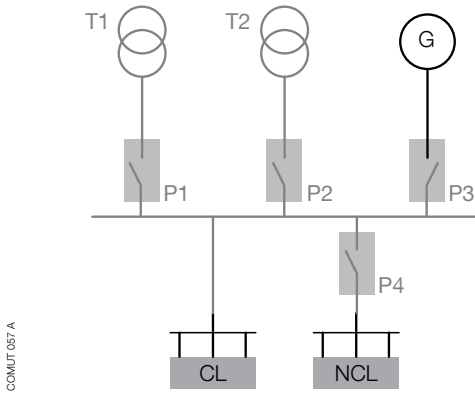
- Compacty (built –in solution)
- Plug and play
- Mechanical and electrical interlocking are in build

# Standard Diagrams

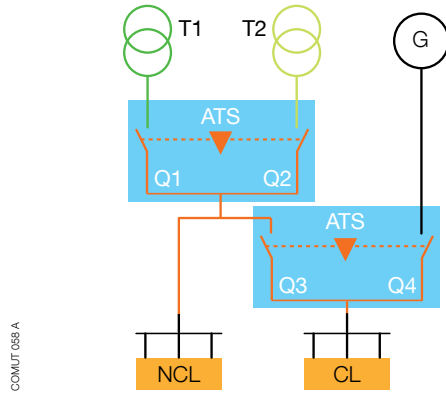
## Transfer between 3 sources - 2 Bus bars

First type of architecture :  $S1 \text{ (kVA)} = S2 \text{ (kVA)} > SG \text{ (kVA)}$

### Standard solution

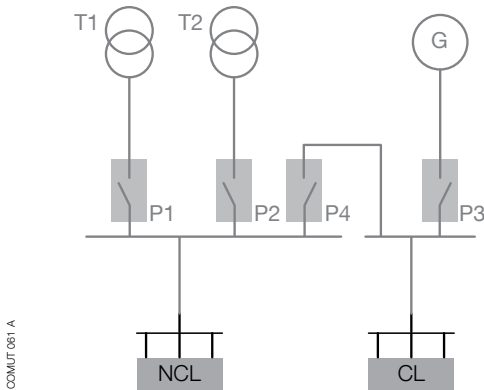


### SOCOMEK solution

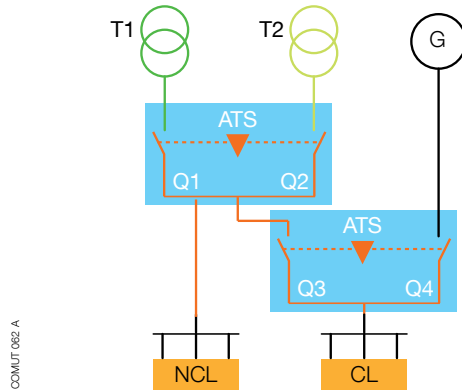


Second type of architecture :  $S1 \text{ (kVA)} = S2 \text{ (kVA)} > SG \text{ (kVA)}$

### Standard solution



### SOCOMEK solution



## Operating table

T1	T2	G	STD	SOCOMEK	CL	NCL
0	0	0	X	X	Off	Off
1	0	0	P1 + P4	Q1 + Q3	On	On
0	1	0	P2 + P4	Q2 + Q3	On	On
0	0	1	P3	Q4	On	Off

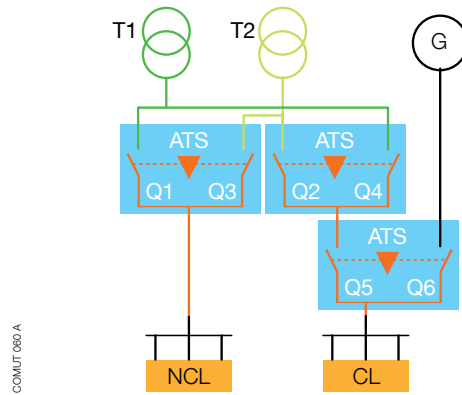
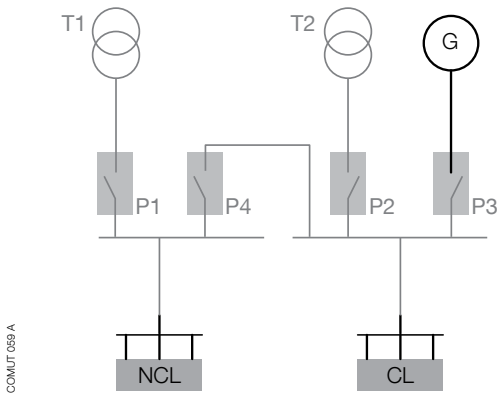
Loads legend : C: Critical - NCL: Non Critical

## Transfer between 3 sources - 2 Bus bars (continued)

Third type of architecture :  $S1 \text{ (kVA)} = S2 \text{ (kVA)} > SG \text{ (kVA)}$

Standard

SOCOMECS



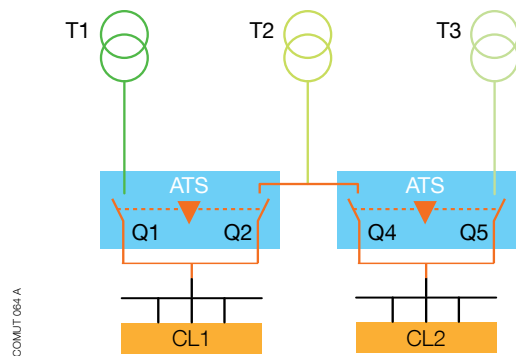
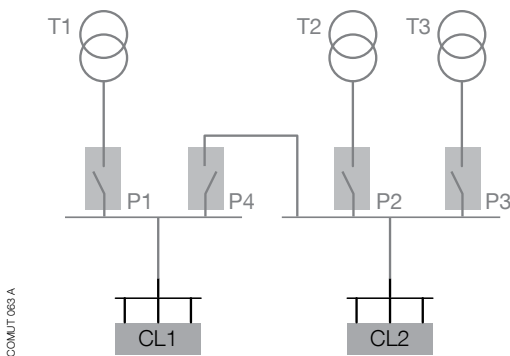
### Operating table

T1	T2	G	STD	SOCOMECS	CL	NCL
0	0	0	X	X	Off	Off
1	0	0	P1 + P4	Q1 + Q4 + Q5	On	On
0	1	0	P2 + P4	Q3 + Q2 + Q5	On	On
0	0	1	P3	Q6	On	Off
1	1	0	P1 + P2	Q1 + Q2 + Q5	On	On

Fourth type of architecture :  $S2 \text{ (kVA)} > S1 \text{ (kVA)}$  and  $S2 \text{ (kVA)} > S3 \text{ (kVA)}$

Standard solution

SOCOMECS solution



### Operating table

T1	T2	T3	STD	SOCOMECS	CL1	CL2
0	0	0	X	X	Off	Off
1	0	0	P1	Q1	On	Off
0	1	0	P2 + P4	Q2 + Q4	On	On
0	0	1	P3	Q5	Off	On
1	0	1	P1 + P3	Q5 + Q1	On	On

# Standard Diagrams

## Transfer between 3 sources - 2 Bus bars (continued)

### Socomec products

#### Mains/Mains – Mains/Gen

- ATyS M6s or M6, ATyS t, g or p

ATYSM007 A - ATYS1001 A



#### Motorised switch as option on Non Critical Loads

- SIRCO MOT AT

SIRCO 310 B



- ATyS M3s, ATyS or ATyS d, ATyS S + C20 or C30

ATYSM013 B - ATYS 838 A  
ATYS 448 B



### Advantage of Socomec solution

#### Operation

- Only 2 or 3 emergency handles instead of 4 or 5
- A motorized switch can be added on the Non Critical Loads for optional disconnection
- Secured padlocking system

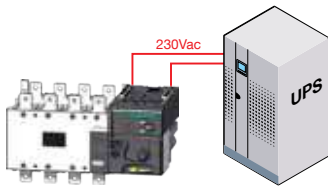
#### Implementation

- Compacity (built -in solution)
- Plug and play
- Mechanical and electrical interlocking are in build

# ATyS and ATyS M benefits

Changeover Systems: SOCOMEC technologies Benefits, fully compliant with IEC 60947-6-1

- Power supply taken from an existing UPS



ATyS 620 A

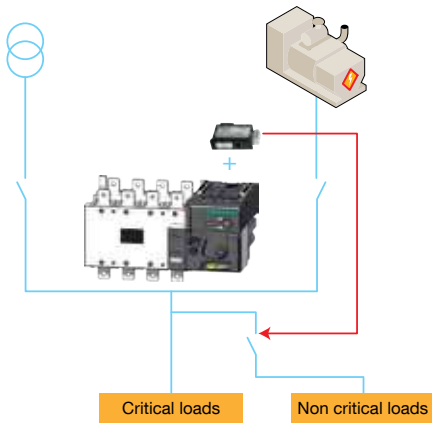
- Inherently double throw switch for low voltage applications



ATyS M 038 A

- Load shedding principle diagram:

ATyS p associated to an Input/Output Module can deliver a signal to the motorised switch in order to realise the load shedding.



ATyS 821 A

- Secured disconnection integrated for load isolation thanks to a double switching technology per pole with fully visualized breaking.

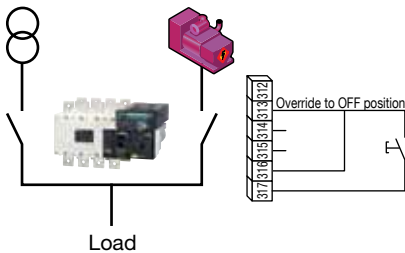
- High number of operations according to IEC 60947-6-1.

- On load Making & Breaking capacity



ATyS 502 A

- Emergency stop on ATyS

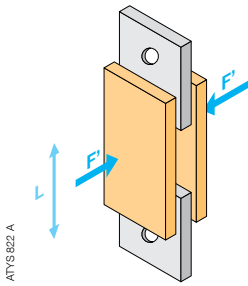


catloc\_274\_a\_gb - catloc\_275\_a\_gb

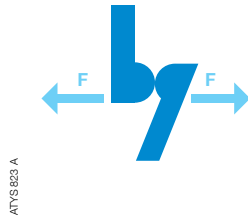
# ATyS and ATyS M benefits

## Changeover Systems : SOCOMEC technologies Benefits, fully Compliant with IEC-60947-6-1

- **Constant pressure** on the contacts not affected by voltage variations, vibrations or repulsive force during short-circuits.



ATyS 8822 A  
SOCOMECE sliding contacts



ATyS 8823 A  
Contactors & Circuit breakers

- **Integrated Mechanical and Electrical Interlocking system.**



atysm\_239\_A

- **Silver plated & Self cleaning contacts.** Maintenance free, No inspection & replacement needed.
- **High dynamic short circuit withstand** (result after 10 short-circuits).



caltec\_2772\_a

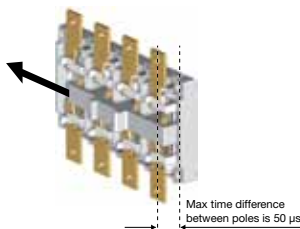


caltec\_2773\_b



atys\_2398\_A

- **Synchronised neutral closing.** The neutral contact is fitted on the same moving contact bar. Ensure neutral referencing & avoid surges.



sico\_445\_a\_1\_gd\_cat

All the big brands are using the synchronised neutral closing technology...

- **The electric mechanism is a single operator** momentarily energized.

- **Stable positions** not affected by voltage fluctuations & vibrations.

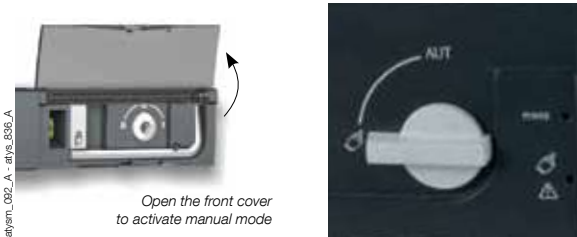


- **Product not powered in stable positions.** Operator is a momentarily energized mechanism. No consumption & extended operating life.

- **Neutral is fully rated** in comparison with phases contacts.
- **Fully rated** : In order to avoid inrush currents in case of motor load.

Changeover Systems : SOCOMEC technologies Benefits, fully Compliant with IEC-60947-6-1

- **Operating mode selector** (Auto / Manual) with interlocking.



Handle housing not possible in Auto mode to secure manual operation.

- **Built-in Mechanical Padlocking System** in manual mode in 0 position (3 positions on request).

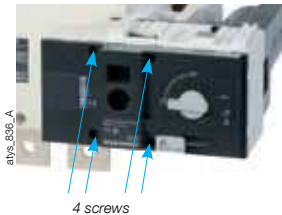


Auto & Manual mode are disabled and not possible in padlocked Mode.

- **Emergency manual operation facilities** with a single handle.



- **Ease of maintenance:**  
Motor & Control relay can be replaced on load = no power loss!  
During maintenance operations, changeover is always possible manually.



# SOCOMEK Products Range

## Manual Changeover (MTSE)

como 107 A - scom 124 A - sircov 138 A - sircov 137/133 A



COMO C

Commut SIRCO M

Commut SIRCO VM1

SIRCOVER

SIRCOVER By-Pass

SIRCOVER ATS By-Pass

## Motorised changeover (RTSE) & Automatic (ATSE)

atys 001 A - atys 836 A - atys 4001 A  
atys 001 A - atys 1001 A - atys 1001 A  
atysm 019 B - atysm 12 A - atysm 159 A



ATyS M 3s

ATyS M 6s

ATyS M 6e

ATyS s

ATyS

ATyS d

ATyS t

ATyS g

ATyS p

## Controller and interfaces

atys 612 B - atys 453 B - atys 450 A - atys 599 C  
atys 594 C - atys 595 C



DPS

C20

C30

C40

D10

D10

## Enclosed solutions

coff 298 B - coff 335 A - coff 306 B - habco 032 A



SIRCOVER

ATyS M

ATyS

By-Pass



# ATS By-Pass Systems, SOCOMEC solution

## Generalities

- The ATS By-Pass function is a solution which allows on normal/emergency changeover installation to isolate the Automatic Transfer Switch Equipment (ATSE) during the maintenance periods, & keep the power supply availability for the installation.
- The ATSE, which is subject on high number of operations and risks of damages (lightning, high voltage fluctuation) due to the permanent connection to the mains, can be controlled or replaced without any threat for the operator and without affecting the continuity of the power supply.

186b 023 A



186b 028 A



# ATS By-Pass Systems, SOCOMEC solution

## Functions & Compositions

SOCOMECC can provide a complete enclosed range Single or Double Line

	Single Line				Double line				
Range from 40A to 3200A									
Switching Equipments	FUNCTIONS	Qties	40 A to 125 A	250 A to 3200 A	FUNCTIONS	Qties	40 A to 125 A	250 A to 3200 A	
	ATS Automatic Transfer Switch	1	<b>ATyS M 6e</b> 	<b>ATyS p</b> 	ATS Automatic Transfer Switch	1	<b>ATyS M 6e</b> 	<b>ATyS p</b> 	
	LBS Load Break Switch	1	<b>SIRCO M 8P</b> 	<b>SIRCO 8P</b> 	LBS Load Break Switch	1	<b>SIRCO M 8P</b> 	<b>SIRCO 8P</b> 	
	MTS Manual Transfer Switch	1	<b>SIRCO M</b> 	<b>SIRCOVER</b> 	MTS Manual Transfer Switch	2	<b>SIRCO M</b> 	<b>SIRCOVER</b> 	
HMI Human Machine Interface	1	Mimic Diagram + <b>ATyS D20</b> 	Mimic Diagram + <b>ATyS D20</b> 	HMI Human Machine Interface	1	Mimic Diagram + <b>ATyS D20</b> 	Mimic Diagram + <b>ATyS D20</b> 		
References	RATINGS	POLES	REFERENCES	RATINGS	POLES	REFERENCES	RATINGS	POLES	REFERENCES
	40 A	4P	1785 <b>4004</b>	40 A	4P	1786 <b>4004</b>	40 A	4P	1786 <b>4004</b>
	63 A	4P	1785 <b>4006</b>	63 A	4P	1786 <b>4006</b>	63 A	4P	1786 <b>4006</b>
	80 A	4P	1785 <b>4008</b>	80 A	4P	1786 <b>4008</b>	80 A	4P	1786 <b>4008</b>
	100 A	4P	1785 <b>4010</b>	100 A	4P	1786 <b>4010</b>	100 A	4P	1786 <b>4010</b>
	125 A	4P	1785 <b>4012</b>	125 A	4P	1786 <b>4012</b>	125 A	4P	1786 <b>4012</b>
	160 A	4P	1785 <b>4016</b>	160 A	4P	1786 <b>4016</b>	160 A	4P	1786 <b>4016</b>
	250 A	4P	1785 <b>4025</b>	250 A	4P	1786 <b>4025</b>	250 A	4P	1786 <b>4025</b>
	400 A	4P	1785 <b>4040</b>	400 A	4P	1786 <b>4040</b>	400 A	4P	1786 <b>4040</b>
	630 A	4P	1785 <b>4063</b>	630 A	4P	1786 <b>4063</b>	630 A	4P	1786 <b>4063</b>
	800 A	4P	1785 <b>4080</b>	800 A	4P	1786 <b>4080</b>	800 A	4P	1786 <b>4080</b>
	1000 A	4P	1785 <b>4100</b>	1000 A	4P	1786 <b>4100</b>	1000 A	4P	1786 <b>4100</b>
	1250 A	4P	1785 <b>4120</b>	1250 A	4P	1786 <b>4120</b>	1250 A	4P	1786 <b>4120</b>
	1600 A	4P	1785 <b>4160</b>	1600 A	4P	1786 <b>4160</b>	1600 A	4P	1786 <b>4160</b>
2000 A	4P	1785 <b>4200</b>	2000 A	4P	1786 <b>4200</b>	2000 A	4P	1786 <b>4200</b>	
2500 A	4P	1785 <b>4250</b>	2500 A	4P	1786 <b>4250</b>	2500 A	4P	1786 <b>4250</b>	
3200 A	4P	1785 <b>4320</b>	3200 A	4P	1786 <b>4320</b>	3200 A	4P	1786 <b>4320</b>	

# Changeover Systems : Applications

## Markets

### Tertiary sector / Building

- High Rise Buildings & Public Buildings.
- Hospitals (Surgery, Intensive care, Hospitalisation, ...).
- Computer rooms (Data centre, Banks, Insurances, Hosting, ...).
- Shopping centres.

### Infrastructures

- Airports (navigation, signalisation, ...).
- Commercial and military navy.
- Highways (Tunnels, tolls, ...).
- Railways.
- Telecom.

### Industry

- Power production.
- Continuous process.
- OEM.



# Socomec worldwide

## IN EUROPE

### BELGIUM

UPS / Power Control & Energy Efficiency / Solar  
Tel. +32 2 340 02 30  
Fax +32 2 346 28 99  
info.be@socomec.com

### FRANCE

UPS / Power Control & Energy Efficiency / Solar  
Tel. +33 1 45 14 63 00  
Fax +33 1 48 67 31 12  
dcm.ups.fr@socomec.com

### GERMANY

Power Control & Energy Efficiency  
Tel. +49 7243 65292 0  
Fax +49 7243 65292 13  
info.scp.de@socomec.com  
UPS  
Tel. +49 621 71 68 40  
Fax +49 621 71 68 444  
info.ups.de@socomec.com

### ITALY

Power Control & Energy Efficiency  
Tel. +39 02 98 49 821  
Fax +39 02 98 24 33 10  
info.scp.it@socomec.com  
Solar  
Tel. +39 0444 598611  
Fax +39 0444 598627  
info.solar.it@socomec.com  
UPS  
Tel. +39 02 98 242 942  
Fax +39 02 98 240 723  
info.ups.it@socomec.com

### NETHERLANDS

UPS / Power Control & Energy Efficiency / Solar  
Tel. +31 30 760 0900  
Fax +31 30 637 2166  
info.nl@socomec.com

### POLAND

Power Control & Energy Efficiency  
Tel. +48 91 442 64 11  
Fax +48 91 442 64 19  
info.scp.pl@socomec.com  
UPS  
Tel. +48 22 825 73 60  
Fax. +48 22 825 73 60  
info.ups.pl@socomec.com

### PORTUGAL

UPS / Solar  
Tel. +351 261 812 599  
Fax +351 261 812 570  
info.ups.pt@socomec.com

### ROMANIA

UPS / Power Control & Energy Efficiency / Solar  
Tel. +40 21 319 36 88  
Fax +40 21 319 36 89  
info.ro@socomec.com

### RUSSIA

UPS / Power Control & Energy Efficiency / Solar  
Tel. +7 495 775 19 85  
Fax +7 495 775 19 85  
info.ru@socomec.com

### SLOVENIA

UPS / Power Control & Energy Efficiency / Solar  
Tel. +386 1 5807 860  
Fax +386 1 561 11 73  
info.si@socomec.com

### SPAIN

UPS / Power Control & Energy Efficiency / Solar  
Tel. +34 93 540 75 75  
Fax +34 93 540 75 76  
info.es@socomec.com

### UNITED KINGDOM

Power Control & Energy Efficiency  
Tel. +44 1462 440 033  
Fax +44 1462 431 143  
info.scp.uk@socomec.com  
UPS  
Tel. +44 1285 863 300  
Fax +44 1285 862 304  
info.ups.uk@socomec.com

### TURKEY

UPS / Power Control & Energy Efficiency / Solar  
Tel. +90 216 540 71 20-21-22  
Fax +90 216 540 71 27  
info.tr@socomec.com

## IN ASIA PACIFIC

### AUSTRALIA

UPS  
Tel. +61 2 9325 3900  
Fax +61 2 9888 9544  
info.ups.au@socomec.com

### CHINA

UPS / Power Control & Energy Efficiency  
Tel. +86 21 52 98 95 55  
Fax +86 21 62 28 34 68  
info.cn@socomec.com

### INDIA

Power Control & Energy Efficiency  
Tel. +91 124 4027210  
Fax +91 124 4562738  
info.scp.in@socomec.com

### UPS / Solar

Tel. +91 44 39215400  
Fax +91 44 39215450 & 51  
info.ups.in@socomec.com  
info.solar.in@socomec.com

### SINGAPORE

UPS / Power Control & Energy Efficiency  
Tel. +65 6506 7600  
Fax +65 64 58 7377  
info.sg@socomec.com

### THAILAND

UPS  
Tel. +66 2 941 1644 7  
Fax +66 2 941 1650  
info.ups.th@socomec.com

### VIETNAM

UPS  
Tel. +84 8 3559 1220  
Fax +84 8 3559 1221  
info.ups.vn@socomec.com

## IN MIDDLE EAST

### UNITED ARAB EMIRATES

UPS / Power Control & Energy Efficiency / Solar  
Tel. +971 4 29 98 441  
Fax +971 4 29 98 449  
info.ae@socomec.com

## IN AMERICA

### USA, CANADA & MEXICO

Power Control & Energy Efficiency  
Tel. +1 617 245 0447  
Fax +1 617 245 0437  
info.us@socomec.com

## OTHER COUNTRIES

### NORTH AFRICA

Algeria / Morocco / Tunisia  
info.nat@socomec.com

### AFRICA

Other countries  
info.africa@socomec.com

### SOUTH EUROPE

Cyprus / Greece / Israel / Malta  
info.se@socomec.com

### SOUTH AMERICA

Tel. +34 93 540 75 75  
info.es@socomec.com

### MORE DETAILS

[www.socomec.com/worldwide](http://www.socomec.com/worldwide)

## HEAD OFFICE

### SOCOMECH GROUP

S.A. SOCOMECH capital 10 816 800€  
R.C.S. Strasbourg B 548 500 149  
B.P. 60010 - 1, rue de Westhouse  
F-67235 Benfeld Cedex - FRANCE  
Tel. +33 3 88 57 41 41  
Fax +33 3 88 74 08 00  
info.scp.isd@socomec.com

[www.socomec.com](http://www.socomec.com)

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