ATyS r - ATyS d

Remotely operated Transfer Switching Equipment

from 125 to 3200 A

The solution for

- Applications with an external ATS/AMF controller
- Building Management Systems (BMS)

Strong points

- Watchdog relay to check product availability
- Integrated auxiliary contacts
- Extended power supply range
- ATyS d: integrated dual power supply

Conformity to standards

- IEC 60947-6-1
- IEC 60947-3

External automatic controller

- The ATyS r and ATyS d are compatible with our ATyS C30 external controllers (for mains/mains and mains/genset applications) and ATyS C40 controllers (for genset/genset applications).

Function

ATyS r and ATyS d are three-phase remotely operated motorised transfer switches, 3 or 4 poles, with positive break indication.

They enable the on load transfer of two three-phase power supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.

They are intended for use in low voltage power systems where interruption of the load supply is acceptable during transfer.

Advantages

Watchdog relay to check product availability

ATyS r and ATyS d products are equipped with a Watchdog relay which constantly monitors your product, thereby securing the installation.

This relay informs in real time the user of the product's availability, i.e. whether it is operational and ready for source switching.

Integrated auxiliary contacts

As part of the product monitoring function, the ATyS r and ATyS d enable the transmission of information relating to their position. This is possible thanks to the standard integration of an auxiliary contact for each position.

Extended power supply range

ATyS r and ATyS d products offer greater availability thanks to their extensive power supply range of 208 to 277 VAC ± 20%.

ATyS d: integrated dual power supply

In addition to the functions offered by the ATyS r, the ATyS d incorporates supply redundancy without the need for additional wiring. This is obtained by integrating a double supply (2 independent power supplies) directly within the product.

References

Rating (A) / Frame size	No. of poles	ATyS r	ATyS d	Bridging bars	Terminal shrouds	Terminal screens	Auxiliary contact	3 position padlocking	Auto transformer
125 A / B3	3 P	9523 **3012**	9533 **3012**	3 P 4109 **3019** 4 P 4109 **4019**	3 P 2694 **3014**(2) 4 P 2694 **4014**(2)	3 P 1509 **3012** 4 P 1509 **4012**	1599 **0002**(4)	9599 **0003**(4)	400/230 VAC 1599 **4064**
	4 P	9523 **4012**	9533 **4012**						
160 A / B3	3 P	9523 **3016**	9533 **3016**						
	4 P	9523 **4016**	9533 **4016**						
200 A / B3	3 P	9523 **3020**	9533 **3020**						
	4 P	9523 **4020**	9533 **4020**						
250 A / B4	3 P	9523 **3025**	9533 **3025**	3 P 4109 **3025** 4 P 4109 **4025**	3 P 2694 **3021**(2) 4 P 2694 **4021**(2)	3 P 1509 **3025** 4 P 1509 **4025**			
	4 P	9523 **4025**	9533 **4025**						
315 A / B4	3 P	9523 **3031**	9533 **3031**	3 P 4109 **3039** 4 P 4109 **4039**					
	4 P	9523 **4031**	9533 **4031**						
400 A / B4	3 P	9523 **3040**	9533 **3040**						
	4 P	9523 **4040**	9533 **4040**						
500 A / B5	3 P	9523 **3050**	9533 **3050**	3 P 4109 **3050** 4 P 4109 **4050**	3 P 2694 **3051**(2) 4 P 2694 **4051**(2)	3 P 1509 **3063**(3) 4 P 1509 **4063**(3)			
	4 P	9523 **4050**	9533 **4050**						
630 A / B5	3 P	9523 **3063**	9533 **3063**	3 P 4109 **3063** 4 P 4109 **4063**					
	4 P	9523 **4063**	9533 **4063**						
800 A / B6	3 P	9523 **3080**	9533 **3080**	3 P 4109 **3080** 4 P 4109 **4080**		3 P 1509 **3080**(3) 4 P 1509 **4080**(3)	1599 **0032**(4)	9599 **0004**(4)	
	4 P	9523 **4080**	9533 **4080**						
1000 A / B6	3 P	9523 **3100**	9533 **3100**						
	4 P	9523 **4100**	9533 **4100**						
1250 A / B6	3 P	9523 **3120**	9533 **3120**	3 P 4109 **3120** 4 P 4109 **4120**					
	4 P	9523 **4120**	9533 **4120**						
1600 A / B7	3 P	9523 **3160**	9533 **3160**	3 P 4109 **3160** 4 P 4109 **4160**		3 P 1509 **3160**(3) 4 P 1509 **4160**(3)			
	4 P	9523 **4160**	9533 **4160**						
2000 A / B8	3 P	9523 **3200**	9533 **3200**	(1)		3 P 1509 **3200**(3) 4 P 1509 **4200**(3)	included		
	4 P	9523 **4200**	9533 **4200**						
2500 A / B8	3 P	9523 **3250**	9533 **3250**						
	4 P	9523 **4250**	9533 **4250**						
3200 A / B8	3 P	9523 **3320**	9533 **3320**						
	4 P	9523 **4320**	9533 **4320**						

(1) See "Copper bar connection kits" page 71.
(2) To fully shroud front, rear, top and bottom 4 references required.
To shroud front switch top and bottom 2 references required.
(3) 2 pieces: one for top side and another for bottom side.
(4) Factory mounting only.

Technical information

> Accessories: see page 70.
> Characteristics: see page 76.
> Terminals and connections: see page 78.
> Dimensions: see page 80.

ATyS d M

Remotely operated Transfer Switching Equipment
from 40 to 160 A

new

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ATyS d M
I-0-II 4P

The solution for

- Applications with an external ATS/AMF controller
- Building Management Systems (BMS)

Strong points

- Secure operation
- High performance
- Fast transfer times
- Immune to network voltage fluctuations

Function

ATyS d M are single-phase or three-phase transfer switches that are remotely controlled using volt-free contacts from an external controller. They are modular products with positive break indication. They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Conformity to standards

- IEC 60947-6-1
- IEC 60947-3
- GB 14048.11

Approvals and certifications

Advantages

Secure operation
ATyS M products provide electrical and mechanical interlocks for optimum safety. The product also provides positive break indication, confirming switch position with dual mechanical indicators for increased safety.

High performance
ATyS M are compliant with IEC 60947-6-1, the standard governing transfer switches. The AC 33B characteristic up to 125 A makes it possible to use the same product for resistive and inductive loads.

Fast transfer
ATyS d M are based on coil and technology with rotative contacts, therefore ensuring an extremely short black-out duration (< 90ms).

Immune to network voltage fluctuations
The power supply of the ATyS d M is only active during transfer. As the product is based on stable positions, it is not affected by network voltage fluctuations.

Modes of operation

ATySm_014_c

Easy selection of AUTO/ MANUAL mode

ATySm_015_c_1_cat

Back-up manual operation

ATySm_016_c_1_cat

Padlocking facility

What you need to know

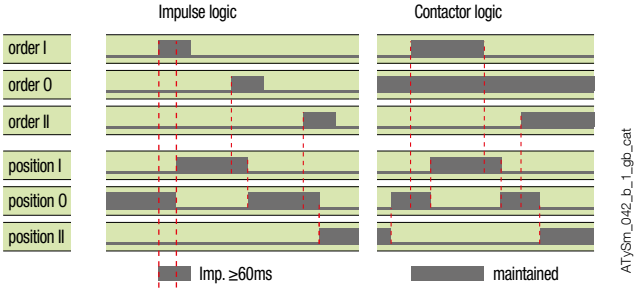
Electrical control

The positions are controlled by volt-free contacts which may come from an external automatic ATS controller (such as the ATyS C30), PLC, BMS or even simply using pushbuttons.
The power section switch positions are stable, with or without a supply present.

Control logic

Two types of control logic are available:

- Impulse logic
  - A switching command of at least 60 ms is necessary to initiate operation.
  - Command I and II have priority over command 0.
  - The first command (order) received (I or II) has priority as long as it remains present.
- Contactor logic
  - Order 0 must be maintained to activate contactor logic.
  - If command I or II disappears, the device returns to zero position, as long as the power supply is available.



Single-phase interface *Three-phase interface*

Power supply

ATyS d M is equipped with two independent 230 VAC auxiliary power supply inputs (176-288 VAC), 50/60 Hz (45/65 Hz).

These two power supplies may be and are intended to be connected individually. One to switch I and the other to switch II:

- Power supply 101-102 must be available to reach position I
- Power supply 201-202 must be available to reach position II.

The use of a dual power supply (DPS), or an external uninterrupted power supply module, provides the full security of the 3 position commands with the availability of any supply.

In this case, both supply inputs must be connected in parallel in order to be supplied.

References

Rating (A)	No. of poles	ATyS d M	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block
40	2 P	9323 **2004**	2 P 1309 **2006** 4 P 1309 **4006**	2 pieces 1399 **4006**	2 pieces 2294 **4016**(1)	1st A/C block included 2nd A/C block Separate common points 1309 **0001**(2) Linked common points 1309 **0011**(2)
	4 P	9323 **4004**				
63	2 P	9323 **2006**				
	4 P	9323 **4006**				
80	2 P	9323 **2008**				
	4 P	9323 **4008**				
100	2 P	9323 **2010**				
	4 P	9323 **4010**				
125	2 P	9323 **2012**				
	4 P	9323 **4012**				
160	2 P	9323 **2016**	1309 **2016**			
	4 P	9323 **4016**	1309 **4016**			

(1) The three-phase version (4 P), for upstream and downstream protection, please order the reference twice. For the single-phase version (2 P) please order the reference once.
(2) 1 NO/NC contact block for positions I, 0 and II.

ATyS S - ATyS d S

Remotely operated Transfer Switching Equipment

from 40 to 125 A

new

atys-s_018_a

The solution for

- Genset <90kVA
- Heating systems
- Climate control
- Ventilation systems
- Telecommunications

Strong points

- Extensive power supply range
- Safety and reliability
- Easy integration
- Simplified maintenance
- ATyS d S: Dual power supply

Conformity to standards

- IEC 60947-6-1
- IEC 60947-3
- GB 14048-11

Approvals and certifications

Function

ATyS S products are 4 pole remotely operated transfer switches with positive break indication.
They enable the on load transfer of two three-phase supplies via remote volt-free contacts, from either an external automatic controller, using pulse logic, or a switch.
They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Advantages

Extensive power supply range
The ATyS S is available in four supply versions, each with a broad range (+/-30%).
The four versions are:
- 12 VDC power supply.
- 24/48 VDC power supply.
- 230 VAC single power supply.
- 2 x 230 VAC dual power supply.

Safety and reliability
ATyS S products use stable position technology, ensuring constant pressure on the contacts and preventing premature faults. In addition, they do not require a power supply to maintain position, thus protecting their loads from voltage fluctuations.

Easy integration
ATyS S products can be easily installed inside enclosures.
Their design, and in particular their compact size, enables integration within most 200 mm deep enclosures.

Simplified maintenance
Maintenance can be carried out easily under load, with manual operation still available.
The control and motorisation section can be replaced simply by removing 4 screws, with no work required on the installation cabling.

ATyS d S: Dual power supply
In addition to the functions offered by the ATyS S, the ATyS d S incorporates supply redundancy without the need for additional wiring. This is obtained by integrating a double supply (2 independent supplies) directly within the product.

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References

ATyS S

Rating (A)	No. of poles	Power supply	ATyS S	Bridging bars	Terminal shrouds	Voltage tap	Terminal retainer	DIN rail
40 A	4 P	24/48 VDC	9506 **4004**	4 P 9509 **4013**	Source side 2 pieces 9594 **4012** Load side 2 pieces 9594 **9012**		2 pieces 9599 **4003**	4 modules 9599 **4002**
	4 P	12 VDC	9505 **4004**					
	4 P	230 VAC	9503 **4004**			9599 **4001**		
63 A	4 P	24/48 VDC	9506 **4006**					
	4 P	12 VDC	9505 **4006**					
	4 P	230 VAC	9503 **4006**			9599 **4001**		
80 A	4 P	24/48 VDC	9506 **4008**					
	4 P	12 VDC	9505 **4008**					
	4 P	230 VAC	9503 **4008**			9599 **4001**		
100 A	4 P	24/48 VDC	9506 **4010**					
	4 P	12 VDC	9505 **4010**					
	4 P	230 VAC	9503 **4010**			9599 **4001**		
125 A	4 P	24/48 VDC	9506 **4012**					
	4 P	12 VDC	9505 **4012**					
	4 P	230 VAC	9503 **4012**			9599 **4001**		

ATyS d S

Rating (A)	No. of poles	Power supply	ATyS d S	Bridging bars	Terminal shrouds	Voltage tap	Terminal retainer	DIN rail
40 A	4 P	2 x 230 VAC	9513 **4004**	4 P 9509 **4013**	Source side 2 pieces 9594 **4012** Load side 2 pieces 9594 **9012**	9599 **4001**	2 pieces 9599 **4003**	4 modules 9599 **4002**
63 A	4 P	2 x 230 VAC	9513 **4006**					
80 A	4 P	2 x 230 VAC	9513 **4008**					
100 A	4 P	2 x 230 VAC	9513 **4010**					
125 A	4 P	2 x 230 VAC	9513 **4012**					

Accessories

Bridging bars

Use

For bridging power terminals on the top or bottom side of the switch. One piece required per pole.

Rating (A)	No. of poles	Reference
40 … 125	4 P	9509 **4013**

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Voltage tap

Use

Enables the required power supply for ATyS S 230 VAC and ATyS d S products to be tapped directly from the product's incoming power terminals. Can also be utilised in applications without neutral, to provide 400 VAC to the autotransformer.

Rating (A)	Reference
40 … 125	9599 **4001**

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Terminal retainer

Use

These clips have a dual function: - to prevent direct access to the power supply and control terminals and
- to secure these connector terminals.

Rating (A)	Pack	Reference
40 … 125	2 pieces	9599 **4003**

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Terminal shrouds

Use

IP2X protection against direct contact with terminals or connecting parts.

Terminal shrouds for the source side

Rating (A)	Pack	Reference
40 … 125	2 pieces	9594 **4012**

Terminal shrouds for the load side

Rating (A)	Pack	Reference
40 … 125	2 pieces	9594 **9012**

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atys-s_020_a

Autotransformer 400/230 VAC

Use

For applications without neutral, this autotransformer provides the 230 VAC required to power these ATyS products.

Dimensions

75x80x72 mm

Rating (A)	Reference
40 … 125	9599 **4004**

DIN rail

Use

This 4-module DIN rail can be installed directly on the front of the ATyS S and can be utilised, for example, for the installation of a surge protection device.

Rating (A)	Reference
40 … 125	9599 **4002**

Spares

Motorisation unit

Use

The motorisation module of the ATyS S can be easily replaced in case of problems, even when the load is supplied.

Rating (A)	ATyS S 12 VDC	ATyS S 24/48 VDC	ATyS S 230 VAC	ATyS d S 2x230 VAC
40	9505 **5004**	9506 **5004**	9503 **5004**	9513 **5004**
63	9505 **5006**	9506 **5006**	9503 **5006**	9513 **5006**
80	9505 **5008**	9506 **5008**	9503 **5008**	9513 **5008**
100	9505 **5010**	9506 **5010**	9503 **5010**	9513 **5010**
125	9505 **5012**	9506 **5012**	9503 **5012**	9513 **5012**

Switching unit

Use

References to be used for replacing the switching module of ATyS S products.

Rating (A)	References
40	9509 **1004**
63	9509 **1006**
80	9509 **1008**
100	9509 **1010**
125	9509 **1012**

Manual emergency operation handle

Use

This handle can be used on the product whether the motor unit is mounted or not.

Rating (A)	References
40 ... 125	9599 **5012**

Connector kit

Use

This kit, including all the connector types for the different products, can be ordered in case of loss or breaking of one connector.

Rating (A)	References
40 ... 125	9509 **0002**

ATyS S - ATyS d S

Remotely operated Transfer Switching Equipment

from 40 to 125 A

Enclosed transfer switch solutions

General characteristics

ATyS S and ATyS d S

- Adapted to mechanical risk and dust hazard.
- Protection degree: IP3X (IP54 optional)
- Colour: RAL 7035, epoxy polyester powder.
- Wall mounting: 4 fixing lugs supplied loose.
- Connection of cables: top or bottomDDoor lock: 3 mm double bar key (included).
- Power network 230/400 VAC +/-30%, 50/60 Hz.
- Two power supplies: 12 VDC and 2 x 230 VAC.
- Manual emergency operation handle provided with the enclosure.

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References

Rating (A)	No. of poles	ATyS S 12 VDC	ATyS d S 2 x 230 VAC
40	4 P	3505 **4004**	3513 **4004**
63	4 P	3505 **4006**	3513 **4006**
80	4 P	3505 **4008**	3513 **4008**
100	4 P	3505 **4010**	3513 **4010**
125	4 P	3505 **4012**	3513 **4012**

Accessories

Factory fitted

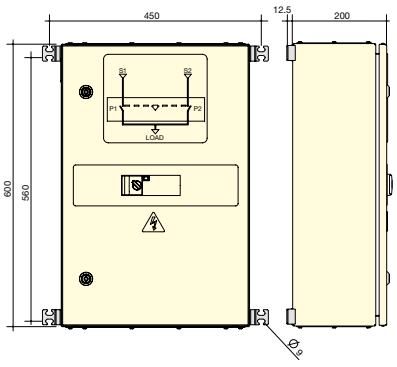
Description	Reference
LEDs indicating if voltage is present	9599 **0005**
LEDs for position indication	9599 **0006**
TESTS/AUTO modes selection (with C30 option)	9599 **0007**
Priority selection (with C30 option)	9599 **0008**
Surge arresters for enclosure (SURGYS D40)	9599 **0010**
Three-phase kit without neutral	9599 **0012**
Kit for auxiliary output (3Ph+N) 16A	9599 **0016**
Copper bar connection kit	9599 **0019**
Kit IP54	9599 **0020**
IPXXB protection screen (door open)	9599 **0021**
Battery charger	9599 **0024**
Kit for voltage sensing on terminals	9599 **0028**
Auxiliary kit for control on terminals	9599 **0029**
Kit for ATyS C30 control/command	9599 **0030**

Customer fit

Description	Reference
Copper bar connection kit	9599 **0018**
Kit IP54	9599 **0020**
IPXXB protection screen (door open)	9599 **0021**

Dimensions

Rating (A)	Connection cross-section (mm²)	H (mm)	L (mm)	P (mm)	Weight (kg)
40	10	600	400	200	25
63	16	600	400	200	25
80	25	600	400	200	25
100	35	600	400	200	25
125	50	600	400	200	25



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Characteristics according to IEC 60947-3 and IEC 60947-6-1

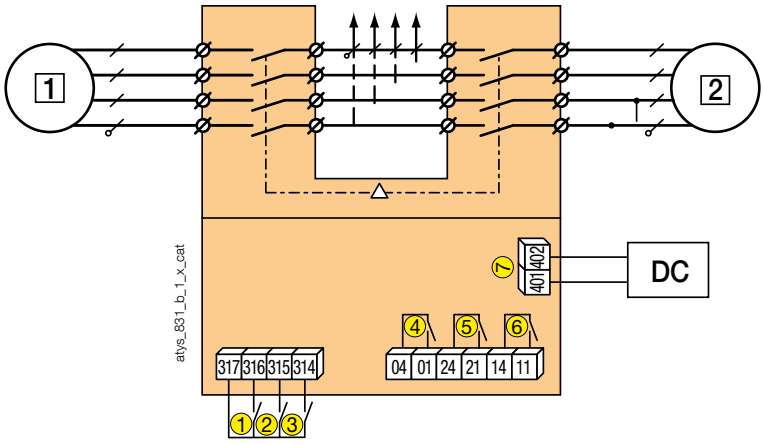
40 to 125 A

Thermal current I_{th} at 40°C		40 A	63 A	80 A	100 A	125 A
Rated insulation voltage U_i (V) (power circuit)		800	800	800	800	800
Rated impulse withstand voltage U_{imp} (kV) (power circuit)		6	6	6	6	6
Rated insulation voltage U_i (V) (operation circuit)		300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (operation circuit)		4	4	4	4	4
Rated operational currents I_e (A) according to IEC 60947-6-1						
Rated voltage	**Utilisation category**	**A/B**	**A/B**	**A/B**	**A/B**	**A/B**
415 VAC	AC-31 B	40	63	80	100	125
415 VAC	AC-32 B	40	63	80	80	80
Rated operational currents I_e (A) according to IEC 60947-3						
Rated voltage	**Utilisation category**	**A/B**	**A/B**	**A/B**	**A/B**	**A/B**
415 VAC	AC-20 A / AC-20 B	40/40	63/63	80/80	100/100	125/125
415 VAC	AC-21 A / AC-21 B	40/40	63/63	80/80	100/100	100/125
415 VAC	AC-22 A / AC-22 B	40/40	63/63	80/80	100/100	100/100
415 VAC	AC-23 A / AC-23 B	-/40	-/63	-/63	-/63	-/63
Fuse protected short-circuit withstand (kA rms prospective)						
Prospective short-circuit current (kA rms)		50	50	50	25	15
Associated fuse rating (A)		40	63	80	100	125
Circuit breaker protected short-circuit withstand with any circuit breaker that ensures tripping in less than 0.3s(3)						
Rated short-time withstand current 0.3s I_{cw} (kA rms)		3.5	3.5	3.5	3.5	3.5
Short-circuit capacity as per IEC 60947-6-1						
Rated short-time withstand current 0.03 s. (kA)		5	5	5	5	-
Rated short-circuit making capacity I_{cm} (kA peak)		7.65	7.65	7.65	7.65	-
Short-circuit capacity as per IEC 60947-3 (without protection)						
Rated short-time withstand current 1 s. I_{cw} (kA rms)		2.5	2.5	2.5	2.5	2.5
Rated peak withstand current (kA peak)		12	12	12	12	12
Connection						
Maximum Cu cable cross-section (mm^2)		50	50	50	50	50
Tightening torque mini / maxi (Nm)		1.2/3	1.2/3	1.2/3	1.2/3	1.2/3
Switching time (Standard setting)						
I - 0 or II - 0 (ms)		500	500	500	500	500
I - II or II - I (ms)		1000	1000	1000	1000	1000
Duration of "electrical blackout" I - II (ms) minimum		500	500	500	500	500
Power supply						
Power supply 12 VDC min / max (VDC)		9/15	9/15	9/15	9/15	9/15
Power supply 24/48 VDC min / max (VDC)		17/62	17/62	17/62	17/62	17/62
Power supply 230 VAC min / max (VAC)		160/310	160/310	160/310	160/310	160/310
Control supply power demand						
Power supply 12 VDC inrush / nominal (VA)		200/40	200/40	200/40	200/40	200/40
Power supply 24/48 VDC inrush / nominal (VA)		200/40	200/40	200/40	200/40	200/40
Supply 230 VAC inrush / nominal (VA)		200/40	200/40	200/40	200/40	200/40
Mechanical characteristics						
Durability (number of operating cycles)		25 000	25 000	25 000	25 000	25 000
Weight ATyS S and ATyS d S 4 P (kg)		3	3	3	3	3

(1) Value for coordination with any circuit breaker that ensures tripping in less than 0.3s. For coordination with specific circuit-breaker references, higher short-circuit current values are available. Please consult us.

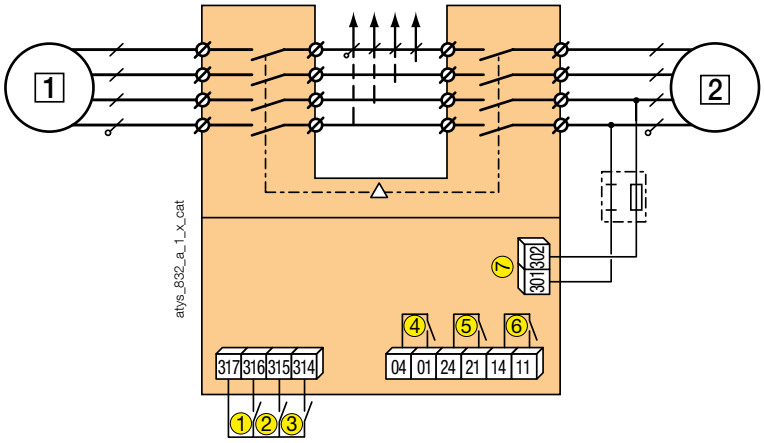
Terminals and connections

ATyS S DC version



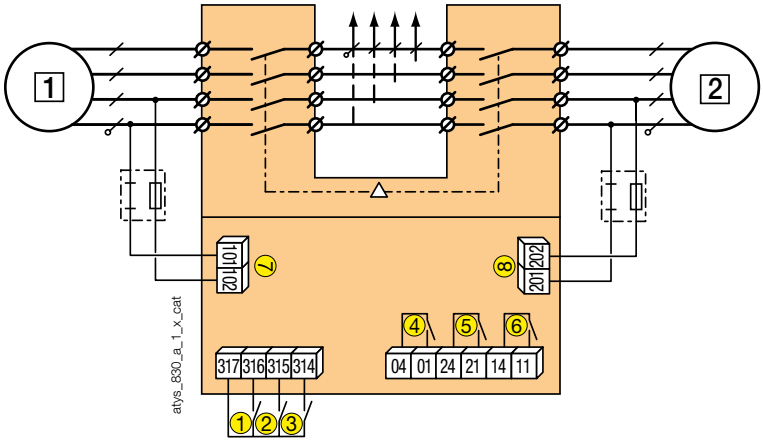
1 preferred source
2 alternate source
1: position 0 control
2: position I control
3: position II control
4: auxiliary contact, closed when the switch is in position 0
5: auxiliary contact, closed when the switch is in position II
6: auxiliary contact, closed when the switch is in position I
7: power supply 12 VDC (9-15 VDC) or 24 VDC / 48 VDC (17-62 VDC) depending on the version.

ATyS S: 230 VAC



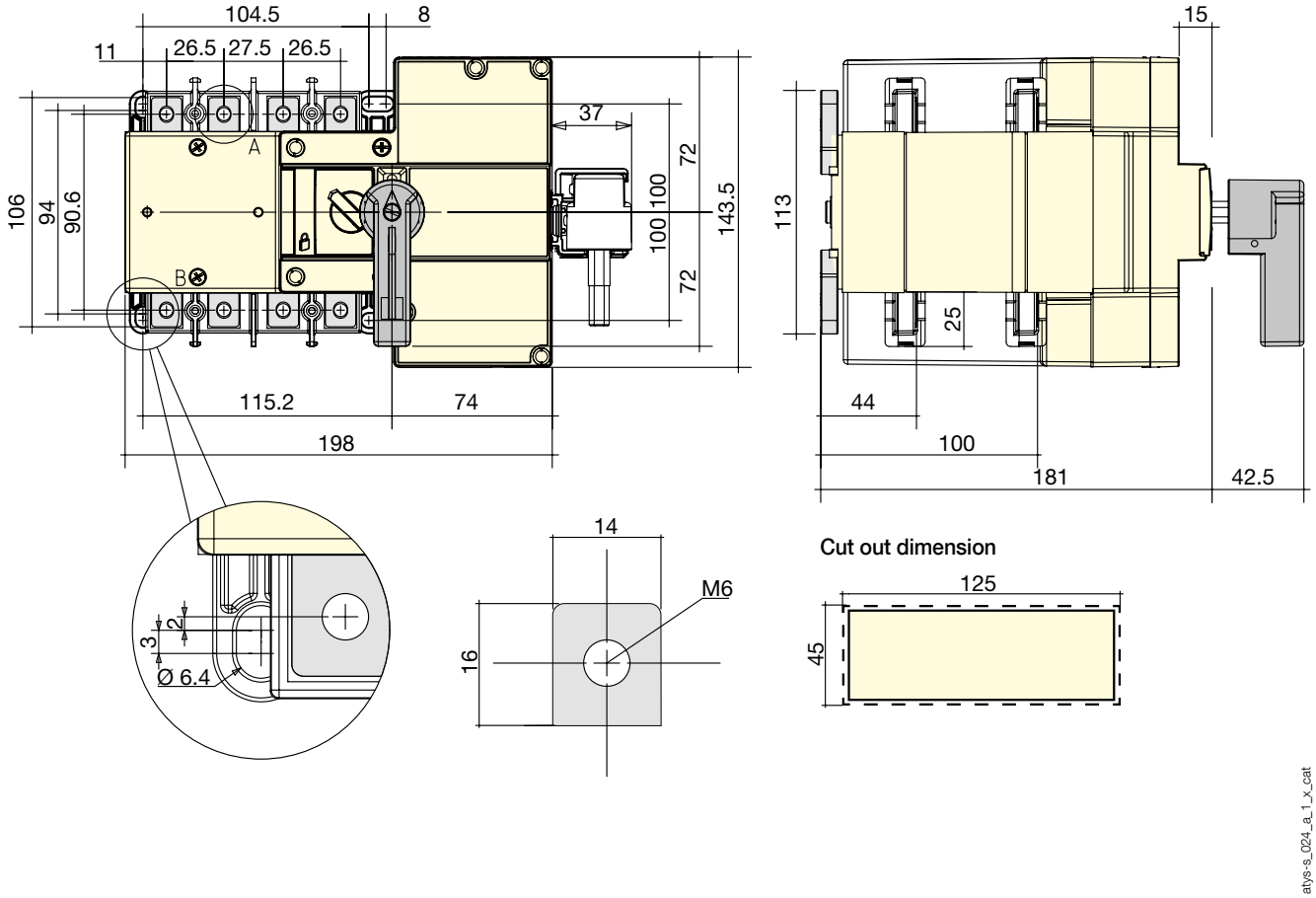
1 preferred source
2 alternate source
1: position 0 control
2: position I control
3: position II control
4: auxiliary contact, closed when the switch is in position 0
5: auxiliary contact, closed when the switch is in position II
6: auxiliary contact, closed when the switch is in position I
7: power supply kit: 230 VAC (160-310 VAC)

ATyS d S: 2 x 230 VAC

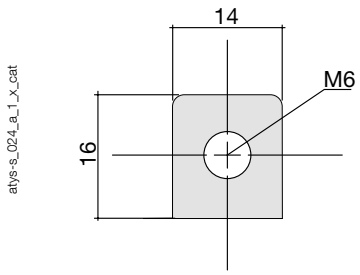


1 preferred source
2 alternate source
1: position 0 control
2: position I control
3: position II control
4: auxiliary contact, closed when the switch is in position 0
5: auxiliary contact, closed when the switch is in position II
6: auxiliary contact, closed when the switch is in position I
7: power supply kit I: 230 VAC (160-310 VAC)
8 : power supply kit II: 230 VAC (160-310 VAC)

Dimensions



Connection terminal



ATyS d H

Remotely operated Transfer Switching Equipment
from 4000 to 6300 A

Transfer switches

new

The solution for
- Data centre
- Telecommunications
- Industries

Strong points
- Ready for installation in the enclosure of your choice
- High performance switching
- Safe on-load transfer: I-0-II

Conformity to standards
- IEC 60947-6-1
- GB 14048-11

Approvals and certifications

Enclosed solution
- Please contact your SOCOMEC office

External automatic controller
- The ATyS d H is an RTSE which is compatible with most building management systems. It may also be supplied as an ATSE including an ATyS C20 / C30 / C40 controller with a door mounted external display.

Function

The **ATyS d H** is a three-phase transfer switch, 3 and 4 poles, designed for low voltage high power applications that require a high performance and fast reliable switching. The open transition transfer is performed on-load in line with IEC 60947-6-1 and GB 14048-11 standards (Class PC) with minimal power supply interruption to the load during transfer.

The ATyS d H is remote transfer switching equipment (RTSE) with an integrated dual power supply (DPS) that accepts remote orders through volt-free contacts.

Advantages

Ready for installation in the enclosure of your choice

The ATyS d H has been designed to facilitate installation as it is available as a fixed or completely withdrawable type of transfer switch. It is composed of two switches that are mounted one above the other with easily accessible power connections located at the rear. Furthermore the ATyS d H does not need any external bridging bars as the load side is connected within the product. This enables to save time during installation.

High performance switching

The ATyS d H offers high withstand short circuit current ratings of 143kA Icm (making) and 65kA for 0.1sec Icw (withstand).
Further to its high short circuit withstand, the ATyS d H performance in terms of load switching capacity is AC33iB (6xIn cos Ø 0.5) without derating.

Safe on-load transfer: I-0-II

The ATyS d H includes two mechanically interlocked switches to ensure fast switching whilst providing a neutral (Off - 0) position. This ensures that the main and alternative power supplies do not overlap. The 0 position can also be used for safe maintenance of the installation, providing isolation between both sources and the load.

References

4000 to 6300 A

Rating (A)	Type	Number of poles	ATyS d H IEC	ATyS d H CCC	Control relay
4000 A	Fixed	3 P	9533 **3400**	9533 **3400 CN**	ATyS C20 1599 **3020** ATyS C30 1599 **3030** ATyS C40 1599 **3040**
		4 P	9533 **4400**	9533 **4400 CN**	
	Drawout	3 P	9533 **3401**	9533 **3401 CN**	
		4 P	9533 **4401**	9533 **4401 CN**	
5000 A	Fixed	3 P	9533 **3500**	9533 **3500 CN**	
		4 P	9533 **4500**	9533 **4500 CN**	
	Drawout	3 P	9533 **3501**	9533 **3501 CN**	
		4 P	9533 **4501**	9533 **4501 CN**	
6300 A	Fixed	3 P	9533 **3630**	9533 **3630 CN**	
		4 P	9533 **4630**	9533 **4630 CN**	
	Drawout	3 P	9533 **3631**	9533 **3631 CN**	
		4 P	9533 **4631**	9533 **4631 CN**	

Characteristics according to IEC 60947-6-1

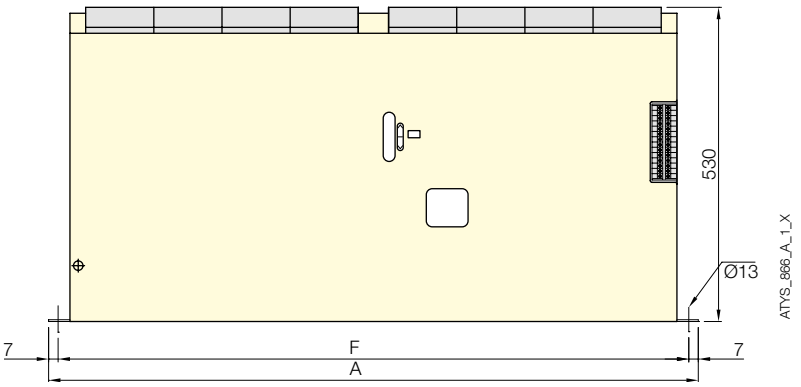
4000 to 6300 A

Thermal current I_{th} at 40°C	**4000 A**	**5000 A**	**6300 A**
Rated operating voltage U_e (V)		660	
Rated insulation voltage U_i (V)		660	
Rated impulse withstand voltage U_{imp} (kV)		12	
Rated short-circuit withstand at 660 VAC			
Rated short-time withstand current 0.1s I_{cw} (kA rms)		65	
Rated peak withstand current (kA peak)		143	
Rated operational current I_e (A), at 660 VAC - AC32B	4000	5000	6300
Rated operational current I_e (A), at 660 VAC - AC33iB (6xIn cos Ø 0.5)	4000	5000	6300
Connection			
Rear connection with busbar	•	•	•
Switching time			
I to 0 (ms)		≤ 150	
0 to I and 0 to II (ms)		≤ 90	
II to 0 (ms)		≤ 200	
I-0-II / II-0-I (s)		1.2	
Operating frequency		10 operations per hour	
Power supply			
VAC power supply (powered directly on terminals S1 and S2)		230	
Main coil operating current (peak during transfers)		65 A(1)	
Mechanical characteristics			
Durability (number of operating cycles)		3000	
Weight (kg) - Fixed 3/4P model	180 / 220	200 / 250	200 / 250
Weight (kg) - Plug-in 3/4P model	220 / 275	245 / 400	245 / 400

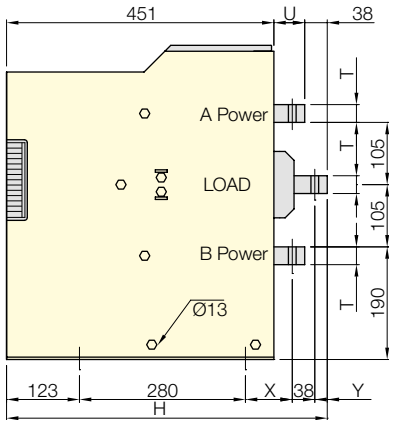
(1) instantaneous value. For a complete operation, power should be available during 0.5s

Dimensions for fixed models

Front view

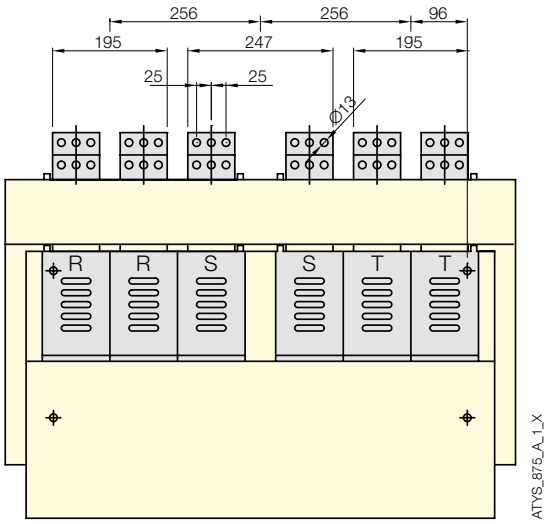


Side view

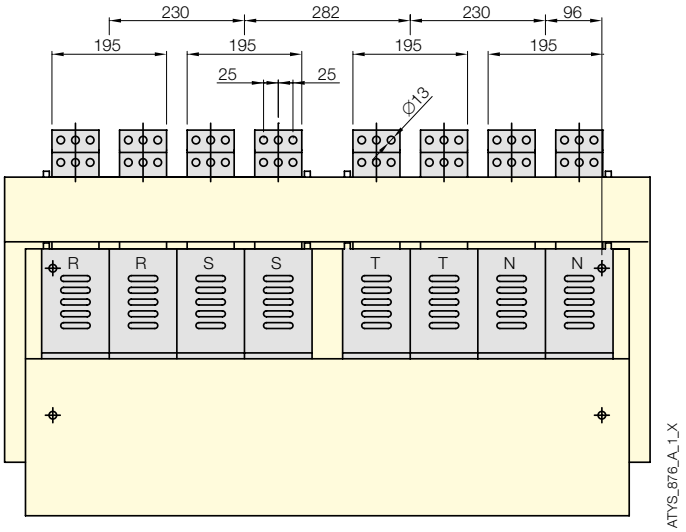


Rating (A)	Overall dimensions A 3p.	Overall dimensions A 4p.	Switch body F 3p.	Switch body F 4p.	Switch body H	Connection X	Connection Y	Connection T	Connection U
4000 A	868	1098	834	1064	527	69	17	24	38
5000 A	868	1098	834	1064	541	79	21	30	52
6300 A	868	1098	834	1064	541	79	21	30	52

Top view / 3 P

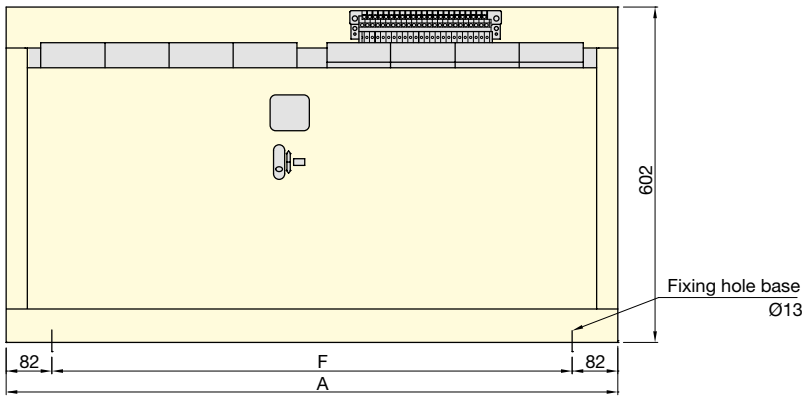


Top view / 4 P

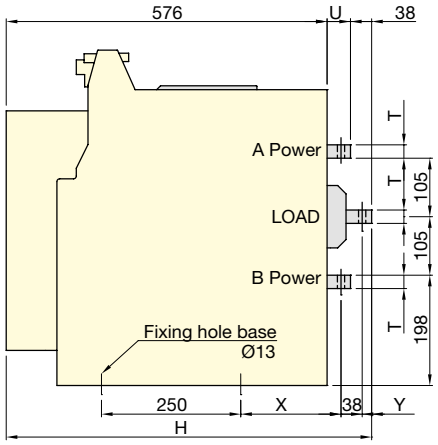


Dimensions for drawout models

Front view

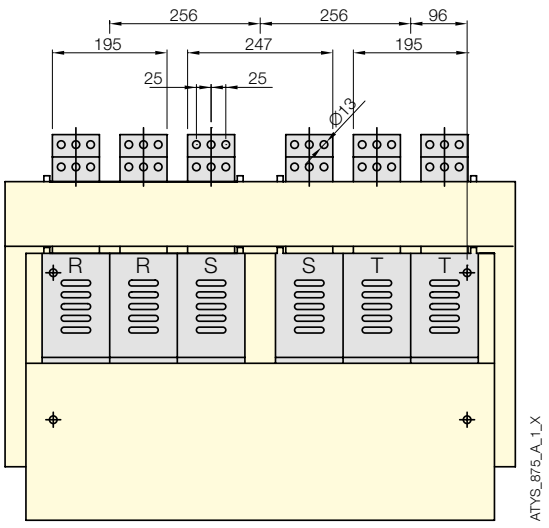


Side view



Rating (A)	Overall dimensions A 3p.	A 4p.	Switch body F 3p.	F 4p.	H	Connection X	Y	T	U
4000 A	868	1098	704	934	656	180	17	24	42
5000 A	868	1098	704	934	670	190	21	30	56
6300 A	868	1098	704	934	670	190	21	30	56

Top view / 3 P



Top view / 4 P