

# ATyS UL1008

Remotely operated transfer switching equipment  
from 100 to 1200 A

Transfer switches



## Function

**ATyS non-automatic transfer switches** are designed for use in total system optional standby applications for the safe transfer between a normal and an alternate power source.

The changeover is done in open transition and with minimum supply interruption during transfer ensuring full compliance with UL 1008 and IEC 60947-6-1. The ATyS is a full on-load disconnecter where the main components are based on proven technology also meeting requirements in UL 98 and IEC 60947-3 standards.

## Advantages

### Robust and Reliable design

ATyS is a remotely operated transfer switch tested in full compliance with UL 1008. The design integrates a failsafe mechanical interlock to ensure that the main source is never inadvertently connected to the alternate. The stable position design ensures that the switch is unaffected by vibration or network voltage perturbation. The ATyS also includes a removable handle for on load manual operation. This is extremely safe and easy to use. The ATyS also includes a fully rated switched neutral pole.

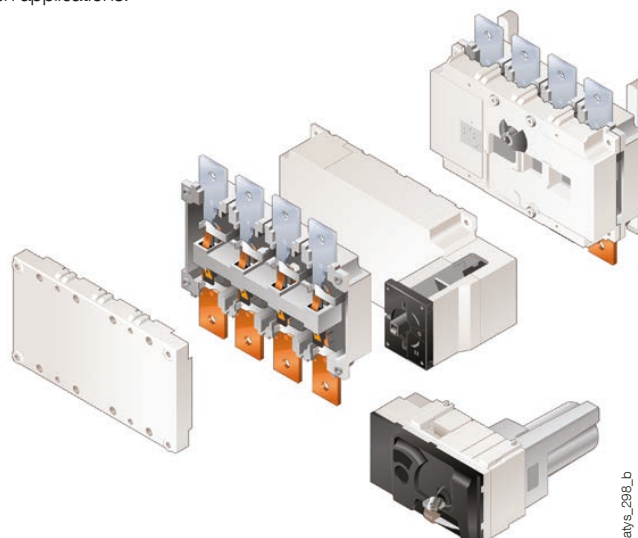
### Maintenance free

The self-cleaning contacts of the ATyS allow the power section to be maintenance free. For safe downstream maintenance the ATyS includes a facility for isolation and padlocking in the zero position.

In the unlikely event of a motorisation failure, the ATyS is designed in a way that the motorisation can be replaced easily and very quickly. Furthermore, the ATyS remains manually operational with or without the motorisation in place.

### Compatible with virtually any ATS controls

The ATyS is directly compatible with virtually any transfer switching control solution that provides volt free contacts. This allows the ATyS to be combined with most ATS controls available on the market and then used in automatic transfer switch applications.



## The solution for

- > Commercial
- > Light Industry
- > Residential applications



## Strong points

- > Robust and reliable design
- > Compatible with virtually any ATS controller
- > On-load manual operation
- > Maintenance free

## Conformity to standards

- > UL 1008, Guide WPYV, file 317092



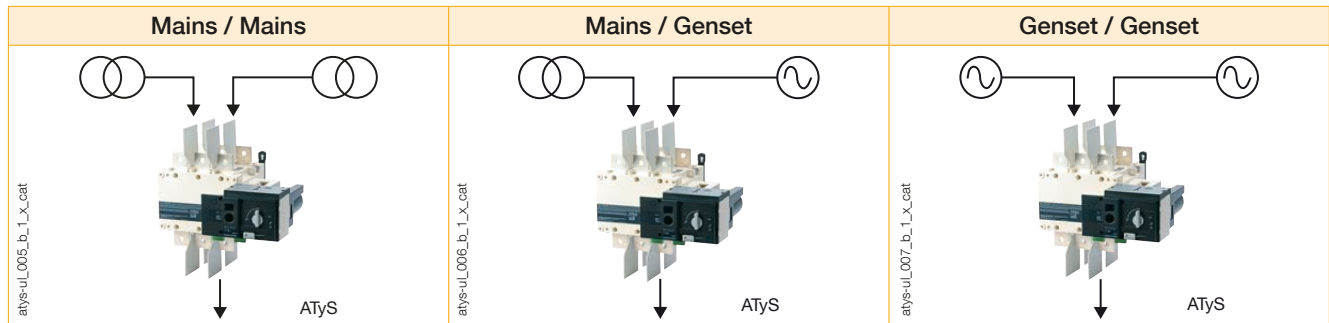
Product reference on request.

## Your choice of ATS controls

- > Your preferred brand of ATS controller, genset/AMF controller or power/building management system, may easily be paired with the ATyS to provide a complete automatic transfer switch that perfectly suits your needs.

### Typical applications

The ATyS UL 1008 range provides safe transfer for mains/mains, mains/genset and genset/genset applications.



### Part of a globally recognised range

The ATyS UL 1008 is part of a large family of products including a complete range of remotely operated and fully automatic transfer switches that comply to IEC and GB standards.

The ATyS range is a world renowned product family trusted by some of the largest manufacturers in the genset industry.

The key to success has been through reliable power availability provided by products that are safe and easy to use.

**ATyS r**

Remote Transfer Switch

Remote Transfer Switch

**ATyS d**

Remote Transfer Switching (RTS)

Dual power supply

**ATyS t**

Automatic Transfer Switching (ATS)

Automatic controller to manage mains/mains applications

**ATyS g**

Automatic Transfer Switching (ATS)

Automatic controller to manage mains/genset applications

**ATyS p**

Automatic Transfer Switching (ATS)

Functions for energy management  
Communication options

Please don't hesitate to contact SOCOMEC with any questions regarding the IEC ATyS range of products above rated from 125 to 3200 A.

# ATyS UL1008

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from 100 to 1200 A

## References

### ATYS UL 1008

Rating (A)	Frame size	No. of poles	ATyS	Bridging bars	Terminal screens	Auxiliary contact	Lug kits	
100 A	B4	2 P	9723 <b>2010</b>	2 P 4159 <b>2021</b>	2 / 3 P 4158 <b>3021</b>	NO/NC 4159 <b>0021</b>	2 P	
		3 P	9723 <b>3010</b>				3 P	3954 <b>2020<sup>(1)</sup></b>
		4 P	9723 <b>4010</b>				3 P	3954 <b>3020<sup>(1)</sup></b>
200 A		2 P	9723 <b>2020</b>	4 P	4158 <b>4021</b>		4 P	3954 <b>4020<sup>(1)</sup></b>
		3 P	9723 <b>3020</b>	4 P	4159 <b>4021</b>		4 P	3954 <b>4020<sup>(1)</sup></b>
		4 P	9723 <b>4020</b>					
260 A	B5	2 P	9723 <b>2026</b>	2 P 4159 <b>2041</b>	2 / 3 P 4158 <b>3041</b>	Low level 4159 <b>0022</b>	2 P	
		3 P	9723 <b>3026</b>				3 P	3954 <b>2040<sup>(1)</sup></b>
		4 P	9723 <b>4026</b>				3 P	3954 <b>3040<sup>(1)</sup></b>
400 A		2 P	9723 <b>2040</b>	4 P	4158 <b>4041</b>		4 P	3954 <b>4040<sup>(1)</sup></b>
		3 P	9723 <b>3040</b>	4 P	4159 <b>4041</b>		4 P	3954 <b>4040<sup>(1)</sup></b>
		4 P	9723 <b>4040</b>					
600 A	B6	3 P	9723 <b>3060</b>	4159 <b>3063</b>	1609 <b>3063</b>	Contact NO/NC as Standard	3954 <b>3060<sup>(3)</sup></b>	
		4 P	9723 <b>4060</b>	4159 <b>4063</b>	1609 <b>4063</b>		3954 <b>4060<sup>(3)</sup></b>	
800 A	B7	3 P	9723 <b>3080</b>	3 P 4159 <b>3080</b>	3 P 1609 <b>3080</b>	Contact NO/NC as Standard	3 P	
		4 P	9723 <b>4080</b>				4 P	3954 <b>3120<sup>(4)</sup></b>
1200 A		3 P	9723 <b>3120</b>	4 P	1609 <b>4080</b>		4 P	3954 <b>4120<sup>(4)</sup></b>
		4 P	9723 <b>4120</b>	4159 <b>4080</b>	1609 <b>4080</b>			

(1) 1x #6-300MCM.

(2) 1x #4-600MCM

(3) 2x(#2-600MCM)

(4) 2x 2x(#2-600MCM)

## Accessories

### Terminal screens

Rating (A)	No. of poles	Reference
100 ... 200	2/3 P	4158 <b>3021</b>
100 ... 200	4 P	4158 <b>4021</b>
260 ... 400	2/3 P	4158 <b>3041</b>
260 ... 400	4 P	4158 <b>4041</b>
600	6 P	1609 <b>3063</b>
600	4 P	1609 <b>4063</b>
800 ... 1200	3 P	1609 <b>3080</b>
800 ... 1200	4 P	1609 <b>4080</b>

#### Use

Top and bottom protection against direct contact with terminals or connecting parts.



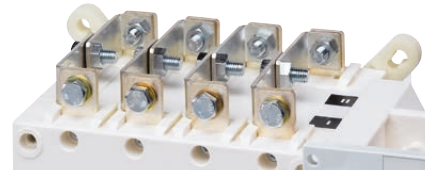
access\_207\_a\_2\_cat

### Bridging bars

Rating (A)	No. of poles	Reference
100 ... 200	2 P	4159 <b>2021</b>
100 ... 200	3 P	4159 <b>3021</b>
100 ... 200	4 P	4159 <b>4021</b>
260 ... 400	2 P	4159 <b>2041</b>
260 ... 400	3 P	4159 <b>3041</b>
260 ... 400	4 P	4159 <b>4041</b>
600	3 P	4159 <b>3063</b>
600	4 P	4159 <b>4063</b>
800 ... 1200	3 P	4159 <b>3080</b>
800 ... 1200	4 P	4159 <b>4080</b>

#### Use

For bridging power terminals on the top or bottom side of the switch. When ordering one reference is required per switch. Please check numbers of poles needed.



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### Auxiliary contacts

#### Use

Pre-break and signalling of positions I and II: each reference provides 1 NO/NC auxiliary contact for positions I and II. ATyS are supplied with 1 NO auxiliary contact for all three positions as standard.

Rating (A)	Contact (s)	Reference
100 ... 400	NO/NC on position 1 and 2	4159 <b>0021</b>
100 ... 400	Low level NO/NC on position 1 and 2	4159 <b>0022</b>
600 ... 1200	NO/NC on position 1 and 2	as standard

A maximum of 2 Aux contacts per position may be added.



access\_065



access\_065\_a\_1\_cat

### Terminal lugs

#### Use

Connection of bare copper cables onto the terminals (without lugs).

Rating (A)	Wires range	No wires per lug	Lugs per kit	Wires	Reference
100 ... 200	6 - 300MCM	1	2	Cu / Al	3954 <b>2020</b>
100 ... 200	6 - 300MCM	1	3	Cu / Al	3954 <b>3020</b>
100 ... 200	6 - 300MCM	1	4	Cu / Al	3954 <b>4020</b>
260 ... 400	4 - 600MCM	1	2	Cu / Al	3954 <b>2040</b>
260 ... 400	4 - 600MCM	1	3	Cu / Al	3954 <b>3040</b>
260 ... 400	4 - 600MCM	1	4	Cu / Al	3954 <b>4040</b>
600	2x (#2 - 600MCM)	2	3	Cu / Al	3954 <b>3060</b>
600	2x (#2 - 600MCM)	2	4	Cu / Al	3954 <b>4060</b>
800 ... 1200 <sup>(1)</sup>	2x 2x(#2 - 600MCM)	2	6	Cu / Al	3954 <b>3120</b>
800 ... 1200 <sup>(1)</sup>	2x 2x(#2 - 600MCM)	2	8	Cu / Al	3954 <b>4120</b>

(1) To be used to connect 4 wires on one terminal. In such a case, 2 lugs are placed side-by-side on one terminal. Please refer to dimensions diagram



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from 100 to 1200 A

## Spares

### Motorisation module

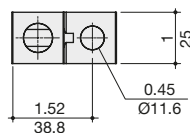
Rating (A)	No. of poles	Frame size	Used for ATyS reference	Motorisation module References
100	2 / 3 / 4 P	B4	9723 2010 - 9723 3010 - 9723 4010	9709 5010
200	2 / 3 / 4 P		9723 2020 - 9723 3020 - 9723 4020	9709 5020
260	2 / 3 / 4 P		9723 2026 - 9723 3026 - 9723 4026	9709 5026
400	2 / 3 / 4 P	B5	9723 2040 - 9723 3040 - 9723 4040	9709 5040
600	3 / 4 P		9723 3060 - 9723 4060	9709 5060
800	3 / 4 P	B6	9723 3080 - 9723 4080	9709 5080
1200	3 / 4 P		9723 3120 - 9723 4120	9709 5120



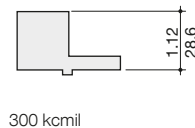
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### Terminal lugs (in/mm)

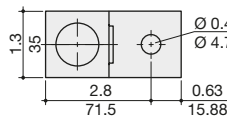
#### 100 and 200 A / B4



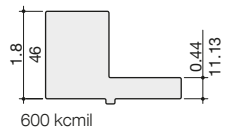
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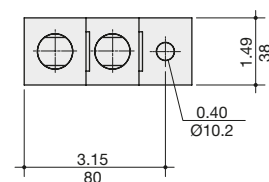
#### 260 and 400 A / B5



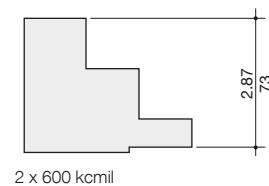
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#### 600 to 1200 A / B6 - B7



siroco\_116\_b\_1\_us\_cat



### Mounting orientation

#### 100 to 400 A / B4 - B5

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Recommended	OK	Not Allowed	OK

#### 600 to 1200 A / B6 - B7

atys-ul\_013 ... 014\_a\_1\_x\_cat

Recommended	Not Allowed	OK	OK

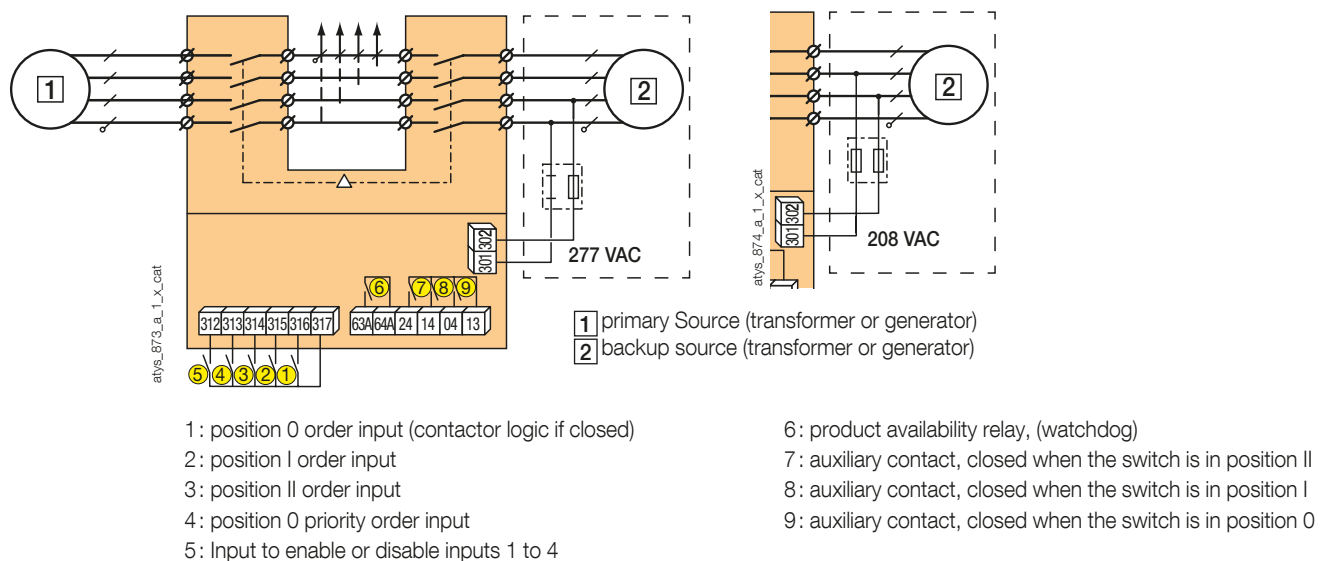
## Characteristics

### Characteristics according to UL 1008 (Optional standby)

General use rating (A)	100 A	200 A	260 A	400 A	600 A	800 A	1200 A
<b>Frame size</b>	<b>B4</b>		<b>B5</b>		<b>B6</b>	<b>B7</b>	
Operation voltage 2 P - 3/4 P	240/600	240/600	240/600	240/600	-/600	-/600	-/600
<b>Short circuit rating at 600 VAC with fuses (kA)</b>							
Short circuit rating at 600 VAC (kA)	100	100	100	100	100	100	100
Type of fuse	J	J	J	J	L	L	L
<b>Short circuit rating at 600 VAC with "Specific Circuit Breaker" (kA)</b>							
Square D JJ breaker 250 A - 2 P 240 VAC - 3/4 P 480 VAC	65	65	-	-	-	-	-
Schneider Electric NSX-F 160 A - 3/4 P 480 VAC	35	-	-	-	-	-	-
<b>Short circuit rating at 600 VAC with "Any Breaker" (kA)</b>							
Short circuit rating (kA)	10	10	14	14	35	35	35
Short circuit capacity (ms)	25	25	50	50	50	50	50
<b>Rated operational current</b>							
240 VAC "Total System" (A)	100	200	260	400	400	700	700
240 VAC resistive load (A)	100	200	260	400	600	800	1200
480 VAC "Total System" (A)	100	100	260	400	350	600	600
480 VAC resistive load (A)	100	200	260	400	600	800	1200
600 VAC "Total System" (A)	100	100	200	200	-	-	-
600 VAC resistive load (A)	100	200	260	400	600	800	1200
<b>Mechanical endurance</b>							
Endurance (number of operating cycles)	6050	6050	6050	4050	3050	3050	3050
<b>Connection terminals</b>							
Min. connection section / AWG	#6	#6	#4 / 2 X 1 / 0	#4 / 2 X 1 / 0	2 x #2	2 x #2	4 x #2
Max. connection section / AWG	300MCM	300MCM	600MCM / 2 X 250MCM	600MCM / 2 X 250MCM	2x 600MCM	2x 600MCM	4 x 600MCM
<b>Power supply</b>							
Supply voltage VAC 50/60 Hz	208-277 VAC ± 20%						
<b>Switching time</b>							
I - II or II - I (s)			1.3			3.2	
I - 0 or 0 - II (s)			0.85			1.8	
Duration of electrical blackout (s)			0.6			1.6	

## Terminals and connections

### Typical wiring for 277/480 VAC and 120/208 VAC networks



# ATyS UL1008

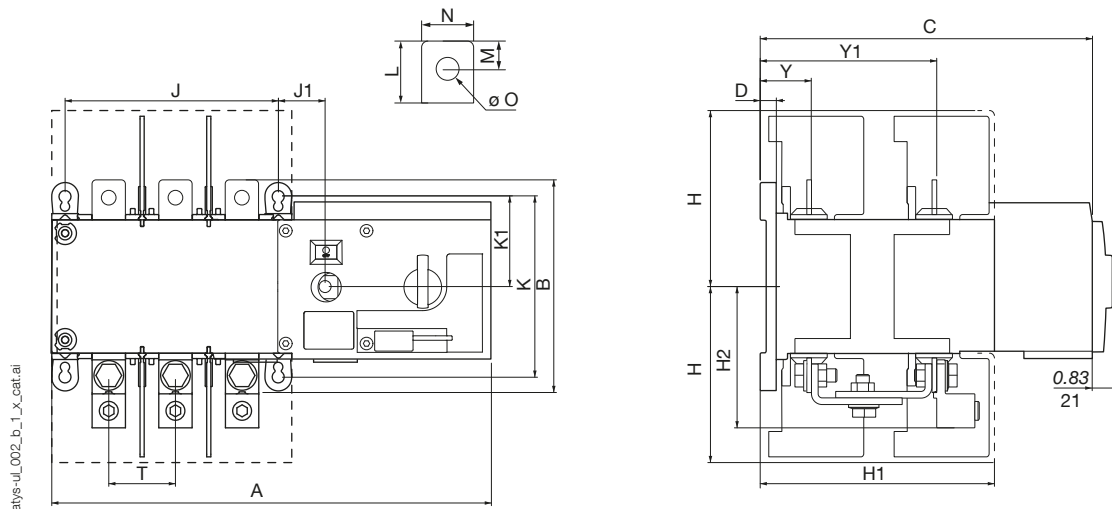
Remotely operated transfer switching equipment

from 100 to 1200 A

## Dimensions (in/mm)

100 to 400 A / B4 - B5

### Transfer switch dimensions

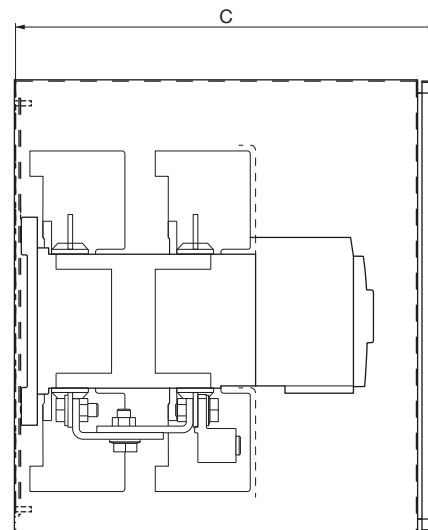
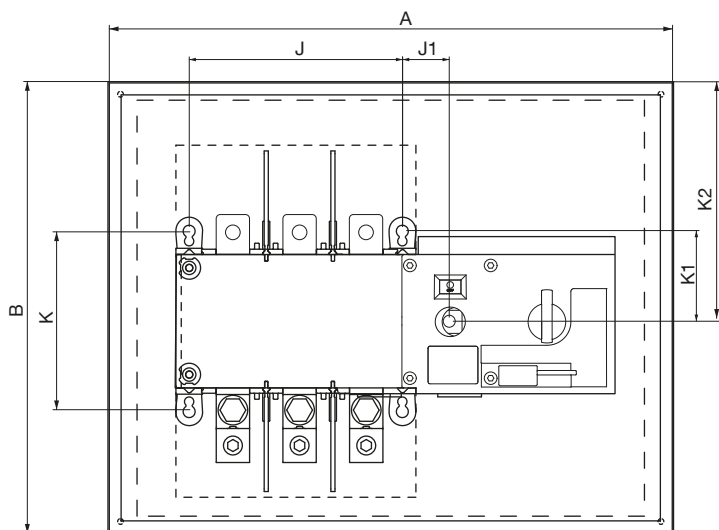


Rating (A)	Frame size	Reference	No. of poles	A		B		C		D		H		H1		H2		Y		Y1		
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
100 - 200	B4	9723 2010 - 9723 2020	2 P	12.91	328	6.30	160	9.60	244	0.41	10.5	5.08	129	6.93	176	4.21	107	1.51	38.5	5.21	132.5	
		9723 3010 - 9723 3020	3 P																			
		9723 4010 - 9723 4020	4 P	14.88	378																	
260 - 400	B5	9723 2026 - 9723 2040	2 P	14.84	377																	
		9723 3026 - 9723 3040	3 P			10.23	260	12.62	320.5	0.41	10.5	8	203	6.51	165.5	6.53	166	2.04	52	7.48	190	
		9723 4026 - 9723 4040	4 P	17.20	437																	

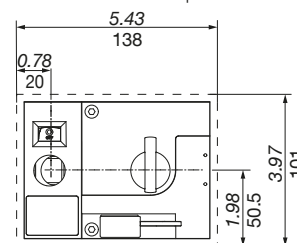
Rating (A)	Frame size	Reference	No. of poles	J		J1		K		K1		L		M		N		O		T		
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
100 - 200	B4	9723 2010 - 9723 2020	2 P	6.30	160	1.37	35	7.67	195	3.84	97.5	1.18	30	0.53	13.3	0.98	25	0.43	11	2	50	
		9723 3010 - 9723 3020	3 P																			
		9723 4010 - 9723 4020	4 P	8.26	210																	
260 - 400	B5	9723 2026 - 9723 2040	2 P	8.26	210																	
		9723 3026 - 9723 3040	3 P			1.37	35	7.67	195	3.84	97.5	1.96	50	0.49	20	1.38	45	0.51	13	2.6	65	
		9723 4026 - 9723 4040	4 P	10.63	270																	

#### 100 to 400 A / B4 - B5

#### Minimum enclosure dimensions



Door cut-out for front panel



Rating (A)	Frame size	Reference	No. of poles	A		B		C		J		J1		K		K1		K2	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
100 - 200	B4	9723 2010 - 9723 2020	2 P	24	610	24	610	12	305	6.30	160	1.37	35	7.67	195	2.67	68	12	305
		9723 3010 - 9723 3020	3 P																
		9723 4010 - 9723 4020	4 P																
260 - 400	B5	9723 2026 - 9723 2040	2 P	32	813	32	813	16	406	8.26	210	1.37	35	7.67	195	3.84	97.5	15	381
		9723 3026 - 9723 3040	3 P																
		9723 4026 - 9723 4040	4 P																



# ATyS UL1008

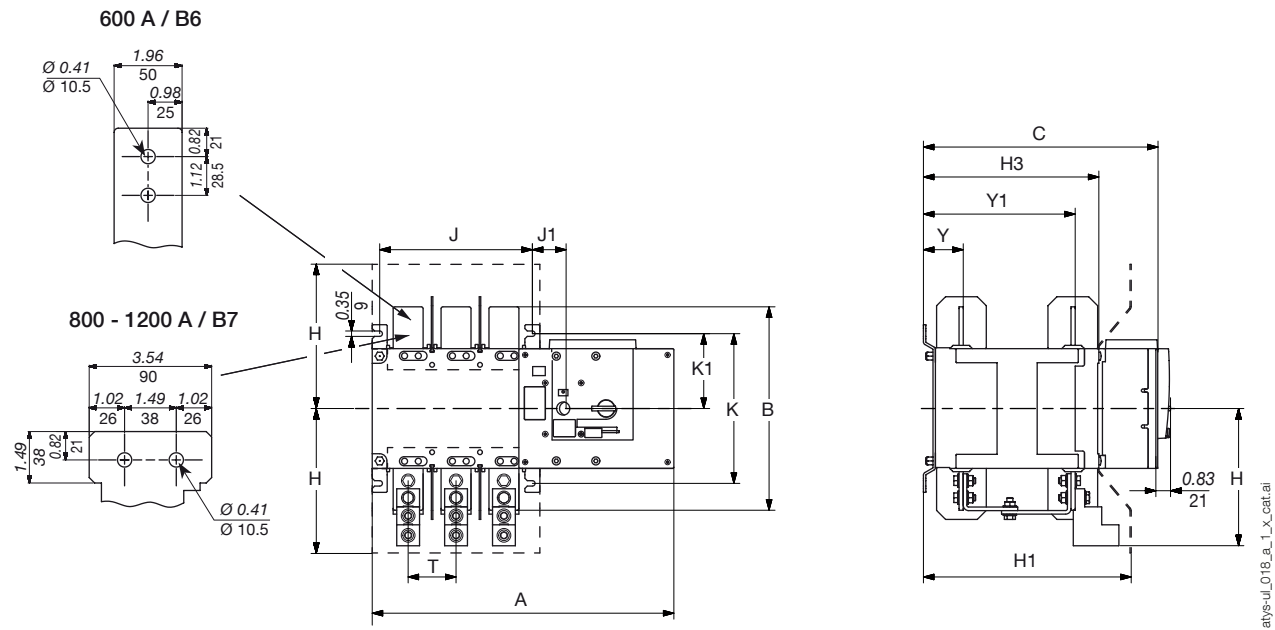
Remotely operated transfer switching equipment

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## Dimensions (in/mm) (continued)

600 to 1200 A / B6 - B7

### Transfer switch dimensions

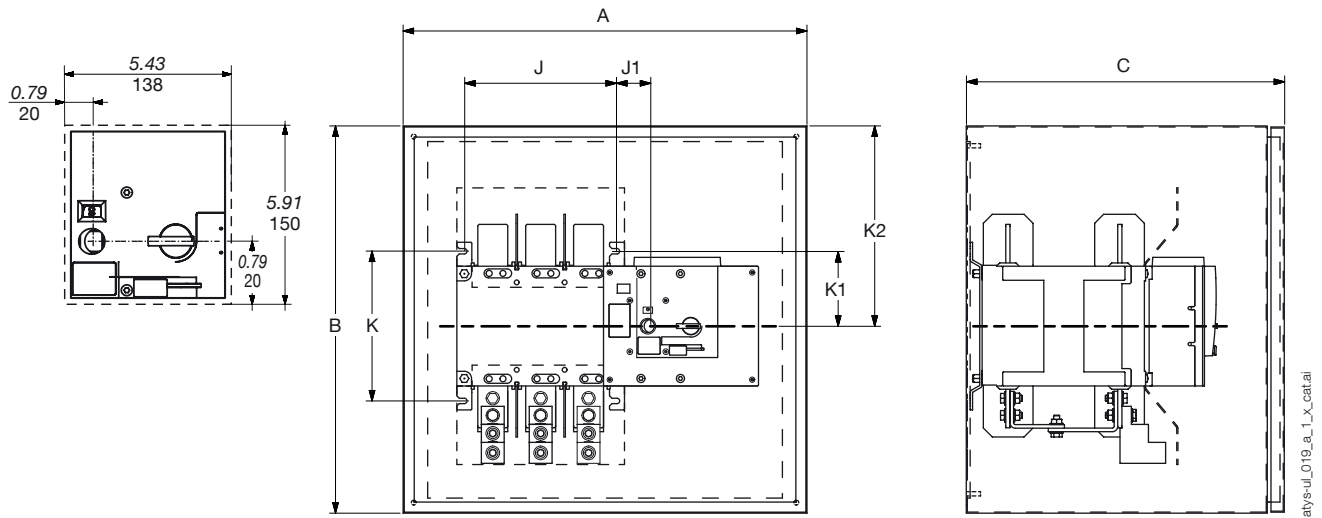


Rating (A)	Frame size	Reference	No. of poles	A		B		C		H		H1		H3	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
600	B6	9723 3060	3 P	19.8	504	13.38	340	15.4	392	9.09	231	13.7	347	11.5	293
		9723 4060	4 P	22.99	584										
800 - 1200	B7	9723 3080 - 9723 3120	3 P	23.5	596	11.34	288	15.4	392	8.30	211	13.7	347	11.5	293
		9723 4080 - 9723 4120	4 P	28.2	716										

Rating (A)	Frame size	Reference	No. of poles	J		J1		K		K1		T		Y		Y1	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	poll	mm
600	B6	9723 3060	3 P	10	255	2.02	51.5	9.84	250	4.92	125	3.15	80	2.61	66.5	9.98	254
		9723 4060	4 P	13.2	335												
800 - 1200	B7	9723 3080 - 9723 3120	3 P	13.7	347	2.02	51.5	9.84	250	4.92	125	4.72	120	2.65	67.7	9.98	254
		9723 4080 - 9723 4120	4 P	18.4	467												

#### 600 to 1200 A / B6 - B7

#### Minimum enclosure dimensions



Rating (A)	Frame size	Reference	No. of poles	A		B		C		J		J1		K		K1		K2	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
600	B6	9723 3060	3 P	36	915	48	1220	20	508	10.04	255	2.02	51.5	9.84	250	4.92	125	24	610
		9723 4060	4 P	36	915	60	1524	20	508	12.18	355	2.02	51.5	9.84	250	4.92	125	30	762
800 - 1200	B7	9723 3080 - 9723 3120	3 P	36	915	60	1524	20	508	13.66	347	2.02	51.5	9.84	250	4.92	125	30	762
		9723 4080 - 9723 4120	4 P	36	915	60	1524	20	508	18.38	467	2.02	51.5	9.84	250	4.92	125	30	762