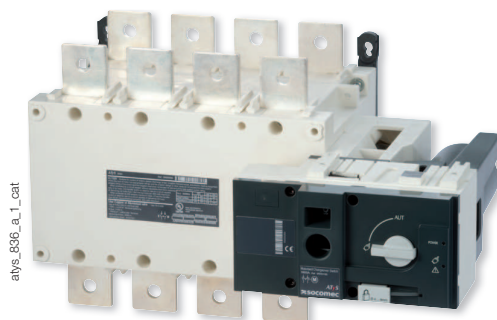




ATyS *r*

Remotely operated transfer switching equipment
from 125 to 3200 A



Function

ATyS r are 3 or 4 pole remotely operated motorised transfer switches 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 products are equipped with a Watchdog relay which constantly monitors your product, thereby securing the installation. This relay informs the user in real time 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 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 products offer greater availability thanks to their extensive power supply range of 208 to 277 VAC $\pm$ 20%.

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

Conformity to standards

- > IEC 60947-6-1
- > IS/IEC 60947-3
- > GB 14048.11



External automatic controller

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

References

ATyS r

Rating (A) / Frame size	No. of poles	ATyS r + Bridging bars	Auxiliary contacts	Terminal shrouds (2)	Terminal screens	Spreaders	Interphase barriers	Autotransformer 400/230VAC			
125 A / B3	4 P	9523 4012SL	1 st /2 nd NO/NC contact 1599 0502G	2694 4014A	Standard 1509 4012A	4106 4016A	2998 5038A	400/230 VAC 1599 4064G			
160 A / B3	4 P	9523 4016SL			Wide 1509 4013A						
200 A / B3	4 P	9523 4020SL									
250 A / B4	4 P	9523 4025SL		2694 4021A	Standard 1509 4025A	4106 4025A	2998 5028A				
315A / B4	4 P	9523 4031SL			Wide 1509 4026A	4106 4040A					
400 A / B4	4 P	9523 4040SL									
500 A / B5	4 P	9523 4050SL		2694 4051A	Standard 1509 4063A	4106 4050A	2998 5018A				
630 A / B5	4 P	9523 4063SL			Wide 1509 4064A	4106 4063A					
800 A / B6	4 P	9523 4080SL	1 st /2 nd NO/NC contact 1599 0532G		Standard 1509 4080A		included				
1000 A / B6	4 P	9523 4100SL			Wide 1509 4081A						
1250 A / B6	4 P	9523 4120SL									
1600 A / B7	4 P	9523 4160SL	1 st and 2 nd NO/NC contact included		Standard 1509 4160A						
2000 A / B8	4 P	9523 4200G ⁽¹⁾			Standard 1509 4200G						
2500 A / B8	4 P	9523 4250G ⁽¹⁾									
3200 A / B8	4 P	9523 4320G ⁽¹⁾									

Also available in 3 poles.

(1) Without bridging bars, to get them see "Copper bar connection pieces"

(2) To shroud front switch top and bottom, order quantity 2.

Technical information

- > Accessories: see
- > Characteristics: see
- > Terminals and connections: see
- > Dimensions: see



ATyS range

ATyS *r*, ATyS *t*, ATyS *p*
from 125 to 3200 A

Accessories

Terminal shrouds

Use

IP2X protection against direct contact with terminals or connecting parts.

Advantages

Perforations allow remote thermographic inspection without the need to remove the shrouds.

Rating (A)	Frame size	No. of poles	Position	Reference
125 ... 200	B3	4 P	top / bottom / front (I) / rear (II)	2694 4014A ⁽¹⁾⁽²⁾
250 ... 400	B4	4 P	top / bottom / front (I) / rear (II)	2694 4021A ⁽¹⁾⁽²⁾
500 ... 630	B5	4 P	top / bottom / front (I) / rear (II)	2694 4051A ⁽¹⁾⁽²⁾

Also available in 3 poles.

(1) For complete shrouding at front, rear, top and bottom, order quantity 4; if equipped with bridging bars order quantity 3.

(2) For top and bottom shrouding for the front only, order quantity 2.



access_206_a_2_cat

Terminal screens

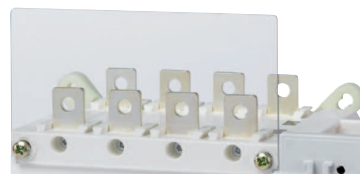
Use

Upstream and downstream protection against direct contact with terminals or connection parts. In case of use of spreaders, use the wide screens.

For upstream and downstream protection, order quantity one.

Rating (A) / Frame size	No. of poles	Position	Type	Reference
125...200 / B3	4 P	Top and bottom	Standard screens	1509 4012A
	4 P		Wide screens	1509 4013A
250...400 / B4	4 P		Standard screens	1509 4025A
	4 P		Wide screens	1509 4026A
500...630 / B5	4 P		Standard screens	1509 4063A
	4 P		Wide screens	1509 4064A
800...1250 / B6	4 P		Standard screens	1509 4080A
	4 P		Wide screens	1509 4081A
1600 / B7	4 P		Standard screens	1509 4160A
2000...3200 / B8	4 P			1509 4200G

Also available in 3 poles.

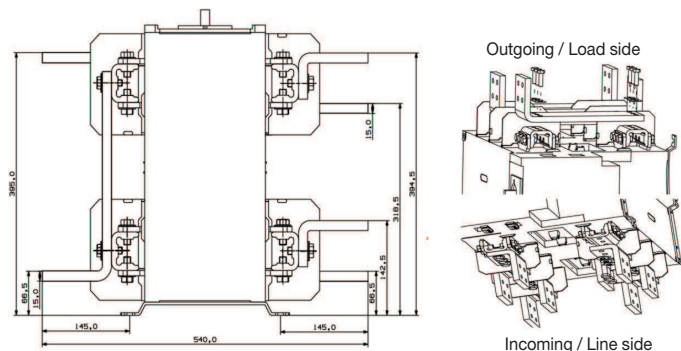


access_207_a_2_cat

Bridging bars kit

For ratings 2000 to 2500 A.

S.No	FG Codes	Description	Req. Qty / Switch
1	26194251A	Bridging bar B8 4P Line side	1
2	41094250A	4P Bridging bar B8 load side	1
3	26191200A	U bridge 1Pole connector B8 CU	16



For ratings 3200 A.

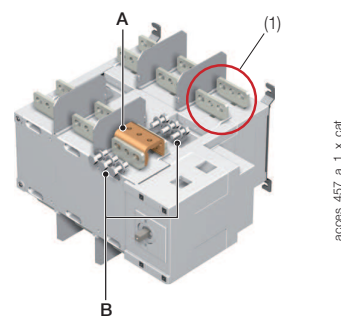
Enables: ☐ Once installed

- Flat connection: The connection pieces provide a link between the two power terminals of the same pole (Fig. 1).
- Edgewise connection: The connection pieces provide a link between the two power terminals of the same pole and an edgewise bar connection terminal.
- Top or bottom bridging between two poles (Fig. 3).

Once installed, the power terminal is connection ready

For 3200 A rating, connection pieces (part A) are supplied as standard. Bolt sets must be ordered separately.

Fig. 1



(1) *Single pole connection: 1 pole (top or bottom) comprises two power terminals which are to be linked with the copper connection kit.*

Connection: The quantities given in the below table refer to the number of pieces required per pole, top or bottom.

Bridging connection: The quantities given refer to the number of pieces required to complete a single bridging connection between two poles.

	Reference	3200 A		
		Fig. 1	Fig. 2	Fig. 3
		Connection		Bridging connection I - II
		Flat	Edgewise	
Connection - part A	2619 1200A	included	included	included
Bolt kit 35 mm - part B	2699 1201A	1 ⁽¹⁾		2 ⁽²⁾
Bolt kit 45 mm - part B	2699 1200A	1 ⁽¹⁾		
T + Bolt kit - part C	2629 1200A		1	1
Bracket + Bolt kit - part D	2639 1200A		1	
Bar + Bolt kit - part E	4109 0320A			1

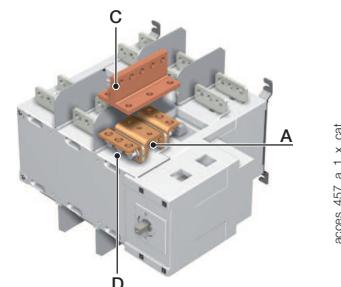
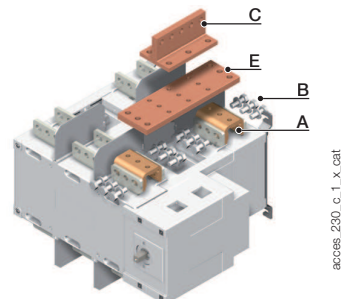
(1) Choose the bolt length according to the thickness of the bars being connected; if bar thickness is greater than 20 mm, 45 mm bolts are required.

(2) For bridging connections, quantity 2 pieces are required for creating the link between the two power terminals of the same pole for switch bodies I and II.

The Below items are required to order for one ATyS Switch (320

	Reference	Total quality
Bolt kit 45 mm - part B	2699 1200	16
T + Bolt kit - part C	2629 1200	12
Bracket + Bolt kit - part D	2639 1200	8
Bar + Bolt kit - part E	4109 0320	4

Fig. 2

Fig. 3 C

ATyS range

ATyS *r*, ATyS *t*, ATyS *p*
from 125 to 3200 A

Accessories (continued)

Autotransformer

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

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	1599 4064G

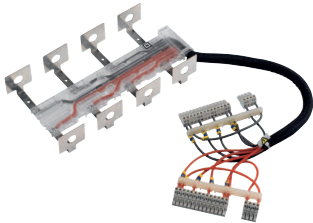
Voltage tapping and power supply kit

Use
For power supply and voltage measurement (4 wire, three-phase) for the ATyS t, g and p. Routing of the conductors is controlled, which means that no specific protective device is necessary for these connections.

The kit can be fitted on the top or bottom of the switch.

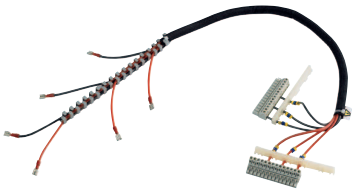
For ATyS t, g and ATyS p - 4 pole		
Rating (A)	Frame size	Reference
125 ... 200	B3	1559 4012G
250	B4	1559 4025G
315 ... 400	B4	1559 4040G
500 ... 630	B5	1559 4063G
800 ... 1000	B6	1559 4080G
1250	B6	1559 4120G
1600	B7	1559 4160G
2000 ... 3200	B8	1559 4200G

125 to 630 A kit



ays_606_a_1_cat

800 to 3200 A kit



ays_603_a_2_cat

Voltage relay

Use
The DS is a voltage relay for monitoring a single power supply. If it detects a fault in the source, the default relay contact closes.

Rating (A)	Reference
DS	192X 0056G



ays_762_a_1_cat

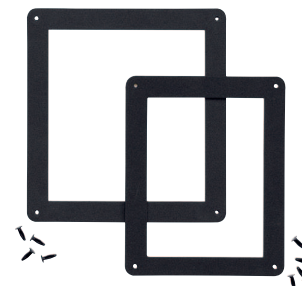
Door protective surround

Use

Door surround to provide a clean and safe finish to the panel's cut-out.

For ATyS r		
Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	1529 0012G
800 ... 3200	B6 ... B8	1529 0080G

For ATyS t, and ATyS p		
Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	1539 0012G
800 ... 3200	B6 ... B8	1539 0080G



atys_595_a_2_cat

Auxiliary contact

Use

Pre-break and signalling of positions I and II: each reference provides 1 NO/NC auxiliary contact for positions I and II. Possibility to install up to 2 auxiliary contacts for each position.

Low level AC: contact us. ATyS are supplied with 1 NO aux contact for all three positions as standard.

Rating (A)	Frame size	Nominal current (A)	Operating current I _o (A)			
			250 VAC AC-13	400 VAC AC-13	24 VDC DC-13	48 VDC DC-13
125 ... 3200	B3 ... B8	16	12	8	14	6

Rating (A)	Frame size	Type of mounting	Reference
125 ... 630	B3 ... B5	Customer fit	1599 0502G
800 ... 1600	B6 ... B7	Customer fit	1599 0532G
2000 ... 3200	B8	-	2 AC per position fitted as standard



800 to 1600 A

atys_396_a

If additional auxiliary contacts are required please consult us.



125 to 630 A

atys_397_a

Mounting spacers

Use

Increases the distance between the rear power terminals and the backplate by 1 cm.

This accessory may also be used to replace the original mounting spacers.

Rating (A)	Frame size	Description of accessories	Reference
125 ... 630	B3 ... B5	1 set of 2 spacers	1509 0001G



atys_009_a_2_cat

Key handle interlocking system

Use

With the product in manual mode, it enables locking in position 0 using a RONIS EL11AP lock (factory fitted).

As standard, locking in position 0.
 With the 3 position padlocking accessory: key interlocking in I, 0 & II.

Rating (A)	Frame size	Reference
125 ... 630	B3 ... B5	9599 1006G
800 ... 3200	B6 ... B8	9599 1004G



atys_868_a

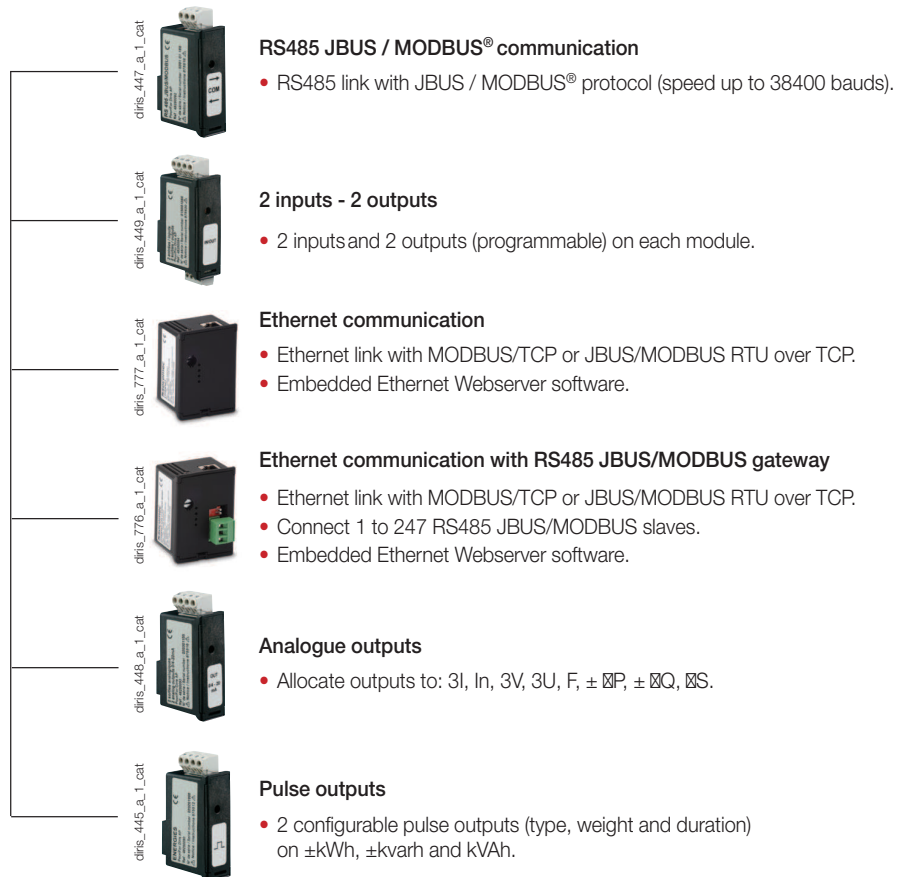
Accessories (continued)

Plug-in optional modules

Use - for ATyS p only

Number of modules per device

A maximum of four modules can be fitted to each ATyS p, unless you are using either Ethernet communication module. In this case, you can connect up to 2 modules as well as the Ethernet communication module.



Description of accessories	Reference
RS485 MODBUS communication	4825 0092G
2 inputs - 2 outputs	1599 2001G
Ethernet communication (embedded Ethernet Webserver software)	4825 0203G
Ethernet communication + RS485 JBUS/MODBUS gateway (embedded Ethernet Webserver software)	4825 0204G
Analogue outputs	4825 0093G
Pulse outputs	4825 0090G

Remote interfaces

Use

To remotely display source availability and position indication typically used on the front of a panel when the product is enclosed. Interfaces are powered from the ATyS transfer switch via the RJ45 connection cable.

Maximum cable length: 3 m.

D10 - for ATyS t

To display source availability and position indication on the front panel of an enclosure.

Protection degree: IP21

D20 - for ATyS p

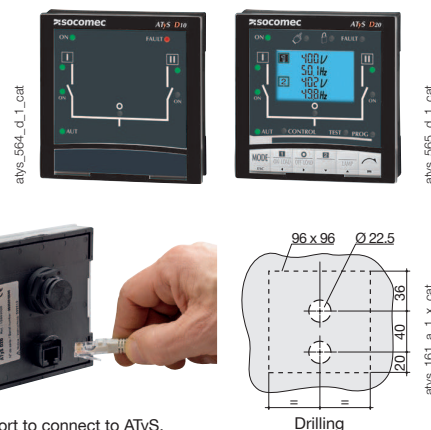
In addition to the functions of the D10, the D20 displays measurements and enables control and configuration from the front of a panel.

Protection degree: IP21

Door mounting

2 holes Ø 22.5.

ATyS transfer switch via RJ45 cable, not isolated. Cable available as an accessory.



Description of accessories	Reference
D10	9599 2010G
D20	9599 2020G

Connecting cable for remote interfaces

Use

To connect between a remote interface (type D10 or D20) and a control product (ATyS t or ATyS p).

Characteristics

For ATyS t and ATyS p

Type	Length	Reference
RJ45 cable	3 m	1599 2009G

RJ45 8 straight-through, non insulated cables, length 3 m.



Sealable cover

Use - for ATyS t

Prevents access to the configuration of ATyS t devices (seals supplied).

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	9599 0000G



Auto/Manual key selector

Use

Replaces the standard Auto/Manual selector knob with a key selector.

Rating (A)	Frame size	Reference
125 ... 3200	B3 ... B8	9599 1007G



Double power supply - DPS

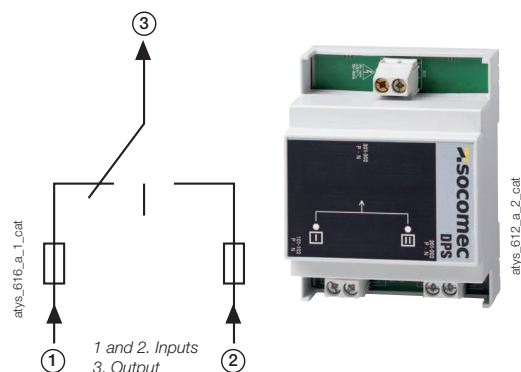
Use

Allows an ATyS r to be supplied by two 230 VAC, 50/60 Hz networks.

Input

- The input is considered "active" from 200 VAC.
- Maximum voltage: 288 VAC.
- Internal protection: each input is fuse protected (3.15 A).
- Connection on terminals: max. 6 mm².
- Modular device: 4 module width.

Description of accessories	Reference
DPS	1599 4001G



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

125 to 630 A

Thermal current I_{th} to 40°C	125 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A
Frame size	B3	B3	B3	B4	B4	B4	B5	B5
Rated insulation voltage U_i (V) (power circuit)	800	800	800	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV) (power circuit)	8	8	8	12	12	12	12	12
Rated insulation voltage U_i (V) (control circuit)	300	300	300	300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (control circuit)	4	4	4	4	4	4	4	4

Rated operational currents I_e (A) according to IEC 60947-3

Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
415 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
415 VAC	AC-23 A / AC-23 B	125/125	160/160	200/200	200/200	315/315	400/400	500/500	500/630
500 VAC	AC-21 A / AC-21 B	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630/630
500 VAC	AC-22 A / AC-22 B	125/125	160/160	200/200	200/250	200/315	200/400	500/500	500/500
500 VAC	AC-23 A / AC-23 B	80/80	80/80	80/80	200/200	200/200	200/200	400/400	400/400
690 VAC ⁽³⁾	AC-21 A / AC-21 B	125/125	160/160	200/200	200/200	200/200	200/200	500/500	500/500
690 VAC ⁽³⁾	AC-22 A / AC-22 B	125/125	125/125	125/125	160/160	160/160	160/160	400/400	400/400
690 VAC ⁽³⁾	AC-23 A / AC-23 B	63/80	63/80	63/80	125/125	125/125	125/125	400/400	400/400
220 VDC	DC-21 A / DC-21 B	125/125	160/160	200/200	250/250	250/250	250/250	500/500	630/630
220 VDC	DC-22 A / DC-22 B	125/125	160/160	200/200	250/250	250/250	250/250	500/500	630/630
220 VDC	DC-23 A / DC-23 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC ⁽²⁾	DC-21 A / DC-21 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC ⁽²⁾	DC-22 A / DC-22 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630
440 VDC ⁽²⁾	DC-23 A / DC-23 B	125/125	125/125	125/125	200/200	200/200	200/200	500/500	630/630

Rated operational currents I_e (A) according to IEC 60947-6-1

Rated voltage	Utilisation category								
415 VAC	AC-31 B	125	160	200	250	315	400	500	630
415 VAC	AC-32 B				200	315	400	500	500
415 VAC	AC-33 B				200	200	200	400	400

Current rated as conditional short-circuit with fuse gG DIN, according to IEC 60947-3

Prospective fuse protected short-circuit withstand at 415 VAC(6)	100	100	50	50	50	50	50	50
Prospective fuse protected short-circuit withstand at 690 VAC(kA rms)				50	50	50	50	50
Associated fuse rating (A)	125	160	200	250	315	400	500	630

Short-circuit withstand without protection as per IEC 60947-3

Rated short-time withstand current 0.3s I_{cw} at 415 VAC (kA rms)	12	12	12	15 ⁽⁴⁾	15 ⁽⁴⁾	15 ⁽⁴⁾	17 ⁽⁴⁾	17 ⁽⁴⁾
Rated short-time withstand current 1s I_{cw} at 415 VAC (kA rms)	7	7	7	8 ⁽⁴⁾	8 ⁽⁴⁾	8 ⁽⁴⁾	11 ⁽⁴⁾	10 ⁽⁴⁾
Rated peak withstand current at 415 VAC (kA peak)	20	20	20	30	30	30	45	45

Short-circuit withstand without protection as per IEC 60947-6-1

Rated short-time withstand current 30 ms I_{cw} at 415 VAC (kA rms)	10	10	10	10	10	10		
Rated short-time withstand current 60 ms I_{cw} at 415 VAC (kA rms)							10	12.6

Connection

Minimum Cu cable cross-section as per IEC 60947-1 (mm²)	35	35	50	95	120	185	2 x 95	2 x 120
Recommended Cu busbar cross-section (mm²)							2 x 32 x 5	2 x 40 x 5
Maximum Cu cable cross-section (mm²)	50	95	120	150	240	240	2 x 185	2 x 300
Maximum Cu busbar width (mm)	25	25	25	32	32	32	50	50
Min./max. tightening torque (Nm)	9/13	9/13	9/13	20/26	20/26	20/26	40/45	40/45

Switching time (rated voltage, after receiving command)

Transfer time I-II or II-I (s)	0.85	0.85	0.85	0.9	0.9	0.9	0.95	0.95
I-O or II-O (s)	0.55	0.55	0.55	0.5	0.5	0.5	0.55	0.55
Contact transfer time ("black-out" I-II) minimum (s)	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4

Power supply

Min./max. power (VAC)	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332
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Control supply power demand

Demand/rated power (VA) - ATyS r	184/92	184/92	184/92	276/115	276/115	276/115	276/150	276/150
Demand/rated power (VA) - ATyS t, ATyS p	206/114	206/114	206/114	298/137	298/137	298/137	298/172	298/172

Mechanical specifications

Durability (number of operating cycles)	10000	10000	10000	8000	8000	8000	5000	5000
Weight ATyS r 3 P / 4 P (kg)	5.7/ 6.9	5.7/ 6.9	5.7/ 6.9	6.6/ 7.4	6.7/ 7.8	6.7/ 7.8	11.4/ 13.3	11.9/ 14.0
Weight ATyS t, ATyS p 3 P / 4 P (kg)	6.8/ 8.0	6.8/ 8.0	6.8/ 8.0	7.7/ 8.5	7.8/ 8.9	7.8/ 8.9	12.5/ 14.4	13.0/ 15.1

(1) Category with index A = frequent operation - Category with index B = infrequent operation.

(2) 3-pole device with 2 pole in series for the "+" an 1 pole for the "-".

4-pole device with 2 poles in series by polarity.

(3) Interphase barriers must be installed on the products.

(4) Values given at 690 VAC.

800 to 3200 A

Thermal current I_{th} at 40°C	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Frame size	B6	B6	B6	B7	B8	B8	B8
Rated insulation voltage U_i (V) (power circuit)	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV) (power circuit)	12	12	12	12	12	12	12
Rated insulation voltage U_i (V) (control circuit)	300	300	300	300	300	300	300
Rated impulse withstand voltage U_{imp} (kV) (control circuit)	4	4	4	4	4	4	4

Rated operational currents I_e (A) according to IEC 60947-3

Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-22 A / AC-22 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-23 A / AC-23 B	800/800	1000/1000	1250/1250	1250/1250	-/1600	-/1600	-/1600
500 VAC	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2000	-/2000
500 VAC	AC-22 A / AC-22 B	630/630	800/800	1000/1000	1600/1600			
500 VAC	AC-23 A / AC-23 B	630/630	630/630	800/800	1000/1000			
690 VAC ⁽³⁾	AC-21 A / AC-21 B	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2000	-/2000
690 VAC ⁽³⁾	AC-22 A / AC-22 B	630/630	800/800	1000/1000	1000/1000			
690 VAC ⁽³⁾	AC-23 A / AC-23 B	630/630	630/630	800/800	800/800			
220 VDC	DC-21 A / DC-21 B	800/800	1000/1000	1250/1250	1250/1250			
220 VDC	DC-22 A / DC-22 B	800/800	1000/1000	1250/1250	1250/1250			
220 VDC	DC-23 A / DC-23 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC ⁽²⁾	DC-21 A / DC-21 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC ⁽²⁾	DC-22 A / DC-22 B	800/800	1000/1000	1250/1250	1250/1250			
440 VDC ⁽²⁾	DC-23 A / DC-23 B	800/800	1000/1000	1250/1250	1250/1250			

Rated operational currents I_e (A) according to IEC 60947-6-1

Rated voltage	Utilisation category							
415 VAC	AC-31 B	800	1000	1250	1600	2000	2500	3200
415 VAC	AC-32 B	800	1000	1250	1250	2000	2000	2000
415 VAC	AC-33 B	800	1000	1000	1000	1250	1250	1250

Current rated as conditional short-circuit with fuse gG DIN, according to IEC 60947-3

Prospective fuse protected short-circuit withstand at 415 VAC (kA rms)	50	50	100	100				
Prospective fuse protected short-circuit withstand at 690 VAC (kA rms)	50	50	50					
Associated fuse rating (A)	800	1000	1250	2x800				

Short-circuit withstand without protection as per IEC 60947-3

Rated short-time withstand current 0.3s I_{cw} at 415 VAC (kA rms)	64	64	64	78	78	78	78
Rated short-time withstand current 1s I_{cw} at 415 VAC (kA rms)	35	35	35	50	50	50	50
Rated peak withstand current at 415 VAC (kA peak)	55	55	80	110	120	120	120

Short-circuit withstand without protection as per IEC 60947-6-1

Rated short-time withstand current 30 ms I_{cw} at 415 VAC (kA rms)							
Rated short-time withstand current 60 ms I_{cw} at 415 VAC (kA rms)	20	20	25	32	50	50	50

Connection

Minimum Cu cable cross-section as per IEC 60947-1 (mm²)	2 x 185						
Recommended Cu busbar cross-section (mm²)	2 x 50 x 5	2 x 63 x 5	2 x 60 x 7	2 x 100 x 5	3 x 100 x 5	2 x 100 x 10	3 x 100 x 10
Maximum Cu cable cross-section (mm²)	4 x 185	4 x 185	4 x 185	6 x 185			
Maximum Cu busbar width (mm)	63	63	63	100	100	100	100
Min./max. tightening torque (Nm)	9/13	9/13	20/26	40/45	40/45	40/45	40/45

Switching time (rated voltage, after receiving command)

Transfer time I-II or II-I (s)	2.8	2.8	2.8	2.9	2.8	2.8	2.8
I-O or II-O (s)	1.4	1.4	1.4	1.4	1.8	1.8	1.8
Contact transfer time ("black-out" I-II) minimum (s)	1.4	1.4	1.4	1.5	1	1	1

Power supply

Min./max. power (VAC)	166/332	166/332	166/332	166/332	166/332	166/332	166/332
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Control supply power demand

Demand/rated power (VA) - ATyS r	460/184	460/184	460/184	460/230	812/322	812/322	812/322
Demand/rated power (VA) - ATyS t, ATyS p	482/206	482/206	482/206	482/252	834/344	834/344	834/344

Mechanical specifications

Durability (number of operating cycles)	4000	4000	4000	3000	3000	3000	3000
Weight ATyS r 3 P / 4 P (kg)	27.9/ 32.2	28.4/ 32.9	28.9/ 33.6	33.1/ 39.4	50.7/ 61.6	50.7/ 61.6	61.0/ 75.3
Weight ATyS t, ATyS p 3 P / 4 P (kg)	29.0/ 33.3	29.5/ 34.0	30.0/ 34.7	34.2/ 40.5	51.8/ 62.7	51.8/ 62.7	62.1/ 76.4

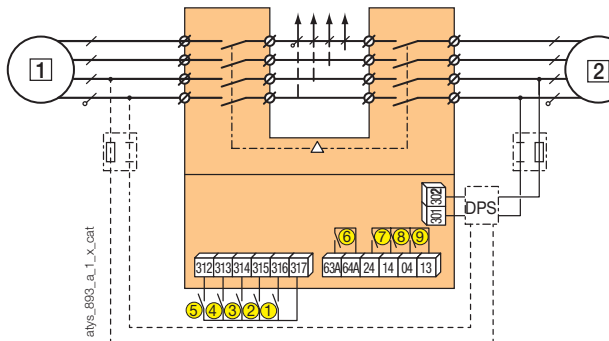
(1) Category with index A = frequent operation - Category with index B = infrequent operation. (3) Interphase barriers must be installed on the products.

(2) 3-pole device with 2 pole in series for the "+" an 1 pole for the "-".

4-pole device with 2 poles in series by polarity.

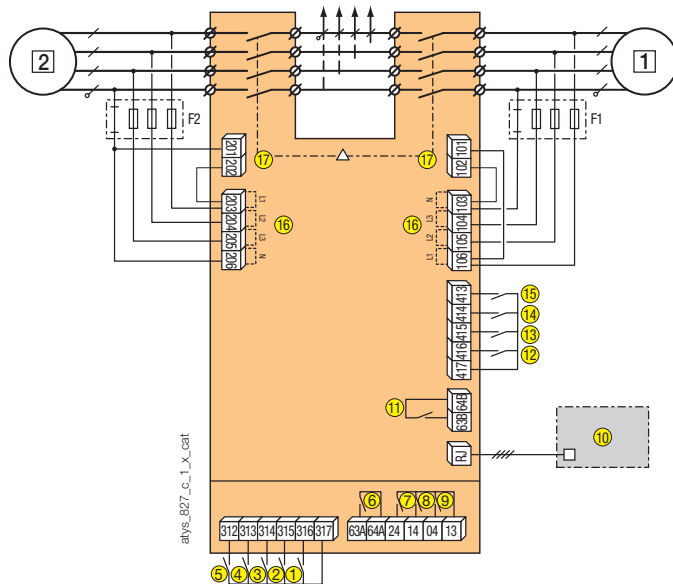
(4) Values given at 690 VAC.

Connections and terminals

ATyS r

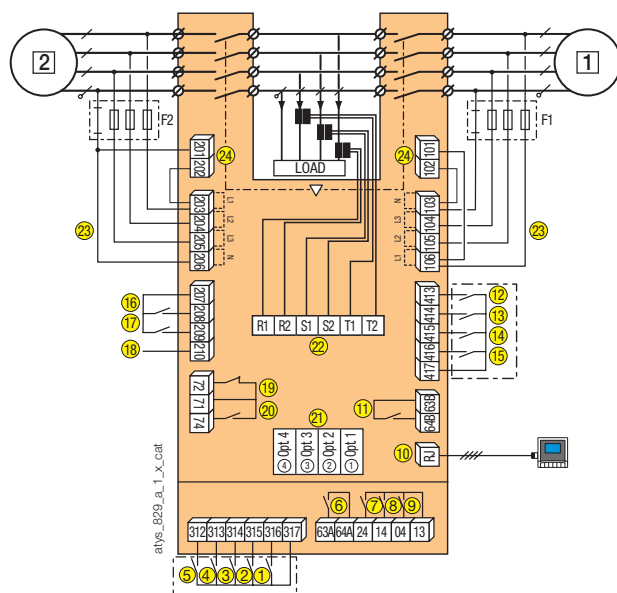
- 1 primary source (network or genset)
 - 2 backup source (mains network or genset)
-
- 1: position 0 control (contact or logic if closed)
 - 2: position I control
 - 3: position II control
 - 4: primary control position 0
 - 5: closing this contact allows position control commands
 - 6: product availability relay
 - 7: auxiliary contact - closed when the switch is in position II
 - 8: auxiliary contact - closed when the switch is in position I
 - 9: auxiliary contact - closed when the switch is in position 0

ATyS t



- 1** primary source (mains network)
- 2** backup source (mains)
- 1: position 0 control (contact or logic if closed)
- 2: position I control
- 3: position II control
- 4: primary control position 0
- 5: closing this contact allows position control commands
- 6: Motor unit availability relay
- 7: auxiliary contact - closed when the switch is in position II
- 8: auxiliary contact - closed when the switch is in position I
- 9: auxiliary contact - closed when the is in position 0
- 10: D10 remote interface
- 11: Electrical unit availability relay
- 12: automatic operation inhibited
- 13: confirm manual retransfer
- 14: preferred source selection
- 15: function with or without priority
- 16: voltage inputs
- 17: power inputs

ATyS p



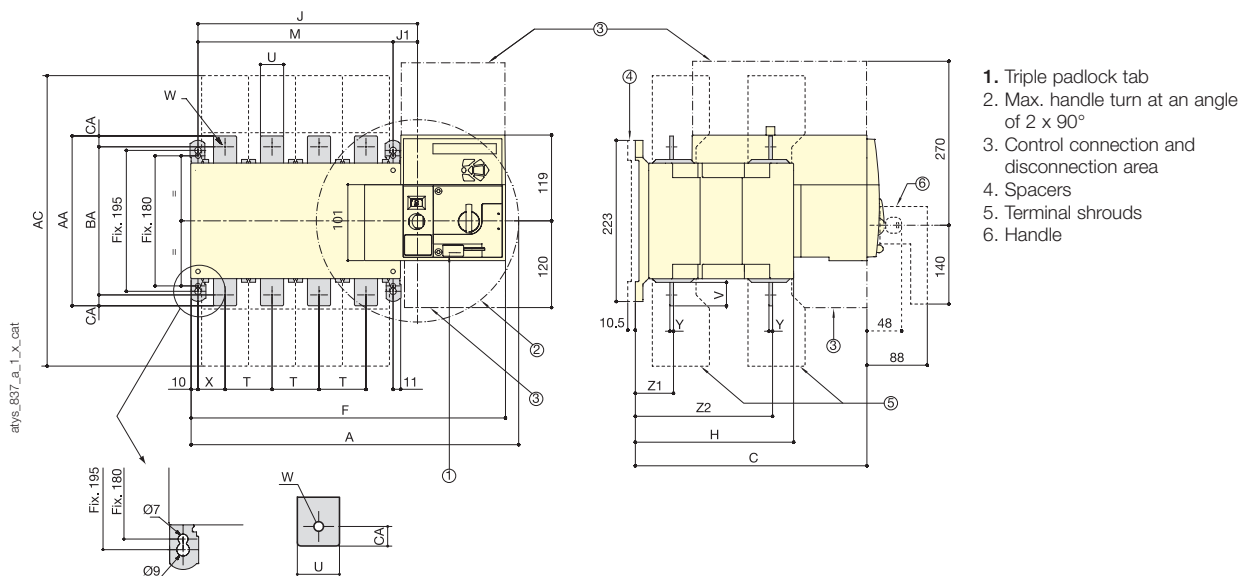
- 1** primary source (network or genset)
- 2** backup source (network or genset)
- 1: position 0 control (contact or logic if closed)
- 2: position I control
- 3: control position II
- 4: primary control position 0
- 5: closing this contact allows position control commands
- 6: Motor unit availability relay
- 7: auxiliary contact - closed when the switch is in position II
- 8: auxiliary contact - closed when the switch is in position I
- 9: auxiliary contact - closed when the switch is in position 0
- 10: D20 remote interface
- 11: Electrical unit availability relay
- 12-17: programmable inputs
- 18: auxiliary power supply for optional modules
- 19-20: genset start and stop commands

Order	71/72 (19)	71/74 (20)
Genset start-up	Closed contact	Open contact
Genset stop	Open contact	Closed contact

- 21 : 4 slots for optional modules
- 22: T1 measurement connection
- 23 : voltage inputs
- 24: power inputs

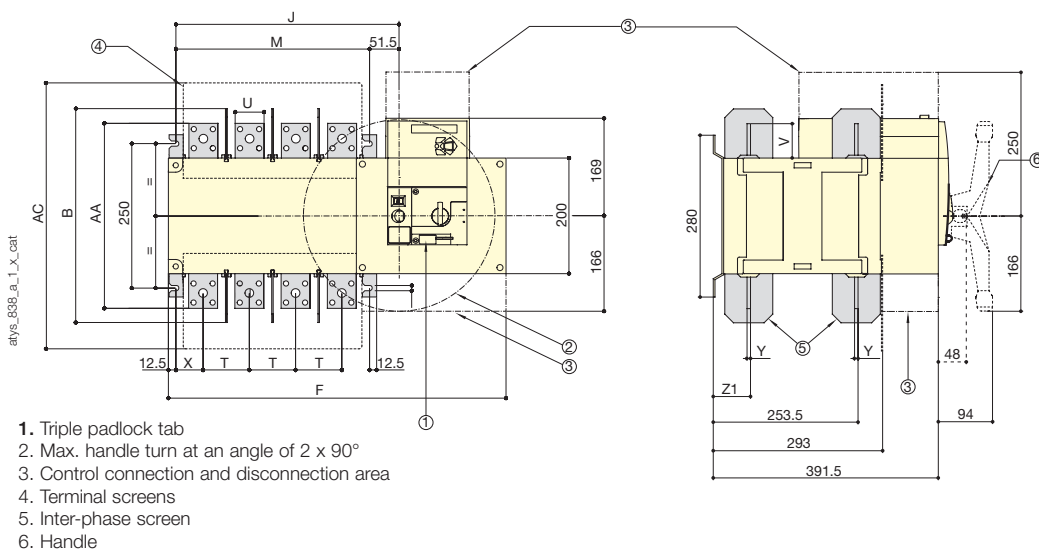
Dimensions

125 to 630 A / B3 to B5



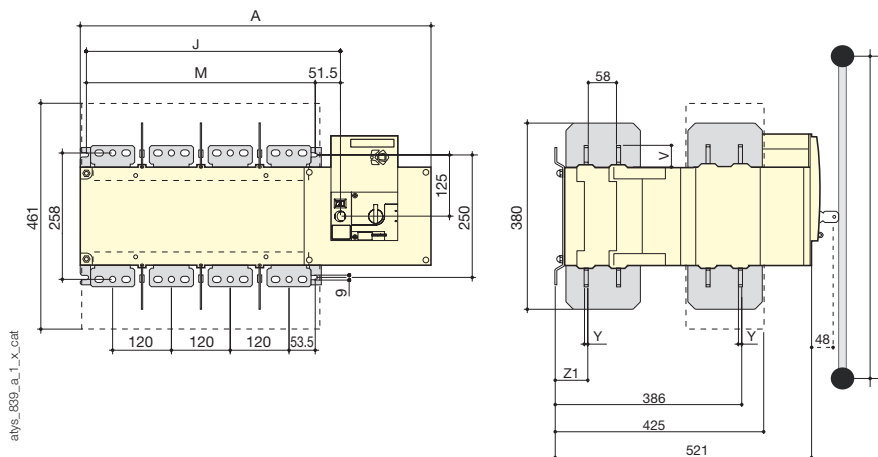
Rating (A) / Frame size	Overall dimensions		Terminal shrouds	Switch body				Switch mounting	Connection										
	A 4p.	C	AC	F 4p.	H	J 4p.	J1	M 4p.	T	U	V	W	X 4p.	Y	Z1	Z2	AA	BA	CA
125 / B3	334	244	233	317	151	184	34	150	36	20	25	9	22	3.5	38	134	135	115	10
160 / B3	334	244	233	317	151	184	34	150	36	20	25	9	22	3.5	38	134	135	115	10
200 / B3	334	244	233	317	151	184	34	150	36	20	25	9	22	3.5	38	134	135	115	10
250 / B4	395	244	288	378	152	245	35	210	50	25	30	11	33	3.5	39.5	133.5	160	130	15
315 / B4	395	244	288	378	152	245	35	210	50	35	35	11	33	3.5	39.5	133.5	170	140	15
400 / B4	395	244	288	378	152	245	35	210	50	35	35	11	33	3.5	39.5	133.5	170	140	15
500 / B5	454	320.5	402	437	221	304	34	270	65	32	50	14	37.5	5	53	190	260	220	15
630 / B5	454	320.5	402	437	221	304	34	270	65	45	50	13	37.5	5	53	190	260	220	20

800 to 1600 A / B6 to B7



Rating (A) / Frame size	Overall dimensions	Terminal shrouds	Switch body		Switch mounting	Connection						
	B	AC	F 4p.	J 4p.	M 4p.	T	U	V	X	Y	Z1	AA
800 / B6	370	461	584	386.5	335	80	50	60.5	47.5	7	66.5	321
1000 / B6	370	461	584	386.5	335	80	50	60.5	47.5	7	66.5	321
1250 / B6	370	461	584	386.5	335	80	60	65	47.5	7	66.5	330
1600/B7	380	531	716	518.5	467	120	90	44	53	8	67.5	288

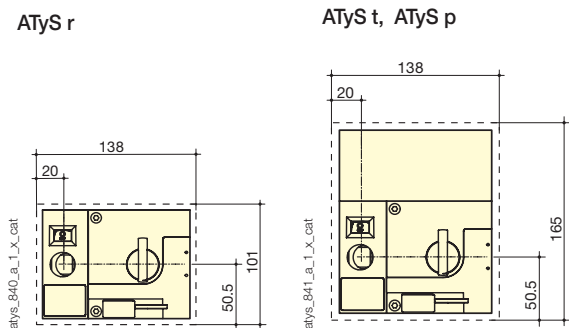
2000 to 3200 A / B8



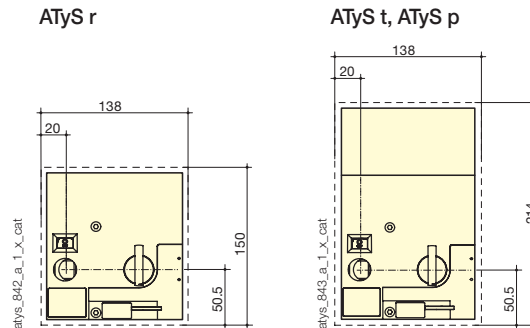
Rating (A)	Overall dimensions B	Terminal shrouds AC	Switch body		Switch mounting M 4p.	T	U	Connection					
			A 4p.	J 4p.				V	X	Y	Z1	AA	
2000 ... 3200	380	531	716	519	467	120	90	44	53	8	67.5	288	

Door cutout

125 to 630 A / B3 to B5

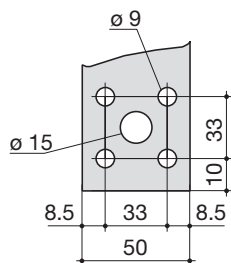


800 to 1600 A / B6 to B7

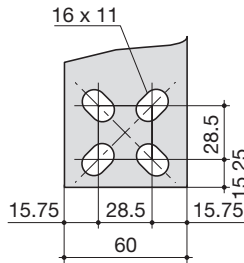


Connection terminals

800 to 1000 A / B6



1250 A / B6



1600 to 3200 A / B7 to B8

