

Motorised and automatic transfer enclosed switches

ATyS in enclosure

40 to 3200 A



The solution for

- > High-rise buildings
- > Data centres
- > Energy generation
- > Healthcare buildings
- > Banks and insurance companies
- > Transport (airports, tunnels, etc.)



Strong points

- > Quick installation
- > Wide range
- > Low maintenance
- > Adaptability

Conformity to standards

- > IEC 60947-3
- > IEC 60947-6-1
- > IEC 61439-2



Functions

Our **transfer enclosures** are equipped with ATyS motorised and automatic changeover switches to ensure power availability in critical applications. Motorised transfer enclosures are controlled remotely through volt-free contacts (e.g. from an external automatic controller or pushbuttons). Automatic transfer enclosures monitor the condition of the low voltage power sources and automatically changeover to the available supply to ensure continuity of supply to the load.

Advantages

Quick installation

Easy installation with the network auto-configuration feature. All of the auxiliary contacts, inputs and outputs are pre-wired to DIN-rail terminals on ATyS r, g & p models.

Wide range

ATyS products have specific functions to make your electrical system safer and smarter. Compatible with all types of BMS/SCADA systems. ATyS provide remote ATS and source status.

Low maintenance

ATyS models have self-cleaning contacts.

Adaptability

With a wide range of configurations, our range of enclosed ATyS models are adapted to suit your needs.

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ATyS g M in polycarbonate enclosure



General features

- From 40 to 160 A.
- Three-phase or single-phase applications.
- Self-powered from incoming supplies: 230 VAC (176-288 VAC), 50/60 Hz (45/65Hz).
- Bridging bars included.
- Connection: bottom/top (incoming bottom/ outgoing top)
- Includes factory-fitted auxiliary contact (none additional can be added).
- Ingress Protection rating: IP41.
- Colour: RAL 7035.
- Wall mounting through holes at rear of enclosure.
- Cover closed with 4 screws.

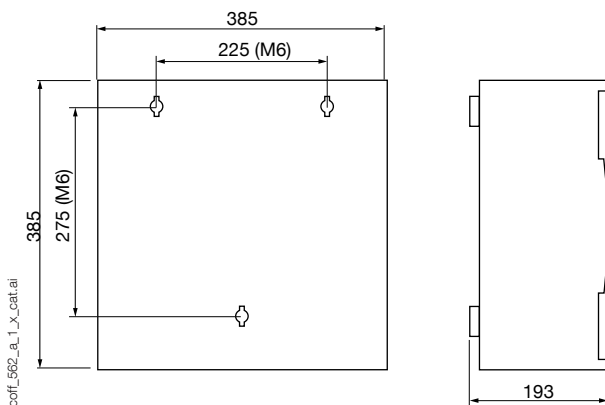
References

ATyS g M three-phase (4 P) model⁽¹⁾

Rating (A)	References
40	1855 4004
63	1855 4006
80	1855 4008
100	1855 4010
125	1855 4012
160	1855 4016

(1) Can also be used for single-phase applications.

Dimensions



Motorised and automatic transfer enclosed switches

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ATyS M in polycarbonate enclosure



General features

- From 40 to 160 A.
- Single-phase applications.
- ATyS M power supply: 230 VAC (176-288 VAC), 50/60 Hz (45/65Hz) - (ATyS g M is self-powered from incoming supplies).
- Bridging bars included.
- Ingress Protection rating: IP55, IK08.
- Colour: RAL 7035.
- Material: transparent cover, polycarbonate enclosure base.
- Mounting: 4 holes at the rear of the enclosure.
- Flame resistant to 650 °C.

References

ATyS d M single-phase (2P) model

Rating (A)	References
40	1823 2004
63	1823 2006
80	1823 2008
100	1823 2010
125	1823 2012
160	1823 2016

ATyS g M single-phase (2P) model

Rating (A)	References
40	1854 2004
63	1854 2006
80	1854 2008
100	1854 2010
125	1854 2012
160	1854 2016

Accessories

Customer fit

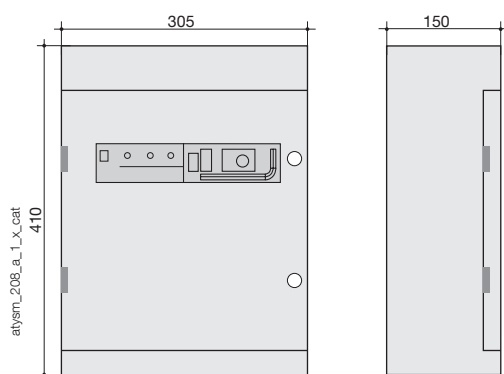
Description	References
Auxiliary contact ⁽¹⁾	1309 1001
Voltage sensing and power supply taps (includes 2 pieces)	1399 4006

(1) 1 auxiliary contact max. Included as standard with ATyS d M version.

For ATyS d M model only

Description	References
Dual power supply	1599 4001

Dimensions



- Weight: 5.5 kg.
- Connection: min. Cu 10 mm², max. 70 mm².

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ATyS M in steel enclosure



General features

- Suitable for environments subject to mechanical risk and dust hazards (IP54 version).
- Bridging bars included.
- Ingress Protection rating: IP3x (with cut-out) or IP54 (with window).
- Colour: RAL 7035.
- Removable gland plates top and bottom.
- Connection: bottom/top for ATyS g M and ATyS p M (incoming bottom/outgoing top)
- Material: 1.2 mm-thick steel.
- Coating: epoxy polyester powder.
- Mounting: 4 wall mounting brackets - supplied loose.
- Hinged door with 3 mm double bar locking.
- Door cut-out (IP3x)/window (IP54): 327 x 47 mm.

References

ATyS d M models

Rating (A)	No. of poles	IP3X References	IP54 References
40	4 P	1823 4004	1823 4005
63	4 P	1823 4006	1823 4007
80	4 P	1823 4008	1823 4009
100	4 P	1823 4010	1823 4011
125	4 P	1823 4012	1823 4013
160	4 P	1823 4016	1823 4017

ATyS g M models

Rating (A)	No. of poles	IP3X References	IP54 References
40	4 P	1854 4004	1854 4005
63	4 P	1854 4006	1854 4007
80	4 P	1854 4008	1854 4009
100	4 P	1854 4010	1854 4011
125	4 P	1854 4012	1854 4013
160	4 P	1854 4016	1854 4017

ATyS p M + RS485 COM models

Rating (A)	No. of poles	IP3X References	IP54 References
40	4 P	1884 4004	1884 4005
63	4 P	1884 4006	1884 4007
80	4 P	1884 4008	1884 4009
100	4 P	1884 4010	1884 4011
125	4 P	1884 4012	1884 4013
160	4 P	1884 4016	1884 4017

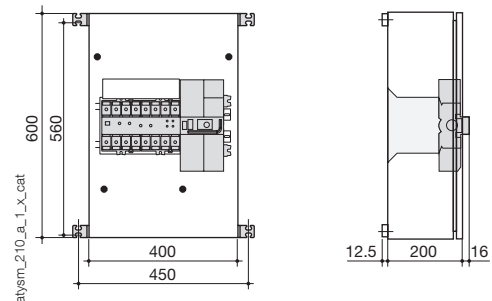
Accessories

Customer fit

Description	References
Solid neutral	1309 9008
IP54 kit (for upgrading IP3x version)	1399 4016
Auxiliary contact ⁽¹⁾	1309 1001

(1) 1 auxiliary contact max. Included as standard with ATyS d M version.

Dimensions



- Weight (without accessories): 15 kg.
- Connection (without cage-terminal interface): min. Cu 10 mm², max. 70 mm².

For details and characteristics refer to the ATyS section of this catalogue.

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40 to 3200 A

ATyS in steel enclosure



General features

- ATyS r, ATyS g and ATyS p, 200 to 3200 A.
- Suitable for environments subject to mechanical risk and dust hazards.
- Ingress Protection rating: IP54.
- Colour: RAL 7035.
- Closing plate: bottom.
- Connection: $\leq 250A$ top or bottom, $\geq 400A$ bottom/ bottom (outgoing terminals are brought to the bottom of the enclosure through descending copper bars).
- Bridging bars factory-fitted.
- 2nd auxiliary contact mounted on the ATyS.
- ATyS g model equipped with an ATyS D10 and ATyS p equipped with an ATyS D20.
- - Inputs, outputs and auxiliary contacts pre-wired to DIN-rail mounted terminals.
- Material: XC steel, thickness 2 mm.
- Coating: epoxy powder.
- Mounting: $\leq 400A$ wall-mounted (brackets supplied loose). $\geq 630A$ floor-mounted on feet.
- Hinged door with 3 mm double bar locking.

References

Rating (A)	Housing size	No. of poles	ATyS r References	ATyS g References	ATyS p References
200	B3	4 P	8723 4020	8753 4020	8773 4020
250	B4		8723 4025	8753 4025	8773 4025
400	B4		8723 4040	8753 4040	8773 4040
630	B5		8723 4063	8753 4063	8773 4063
800	B5		8723 4080	8753 4080	8773 4080
1000	B6		8723 4100	8753 4100	8773 4100
1250	B6		8723 4120	8753 4120	8773 4120
1600	B7		8723 4160	8753 4160	8773 4160
2000	B8		8723 4200	8753 4200	8773 4200
2500	B8		8723 4250	8753 4250	8773 4250
3200	B8		8723 4320	8753 4320	8773 4320

Accessories

Solid neutral

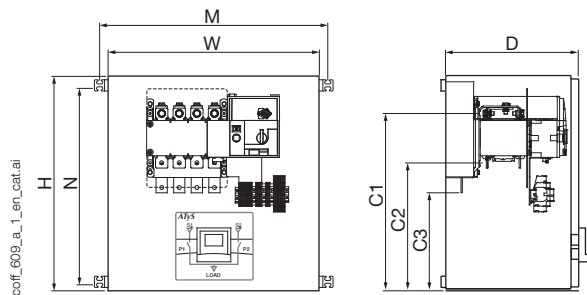
Rating (A)	References
200	1599 1020
250	1599 1025
400	1599 1040
630	1599 1063
800	1599 1080
1000	1599 1100
1250	1599 1120
1600	1599 1160
2000	Please contact us
2500	Please contact us
3200	Please contact us

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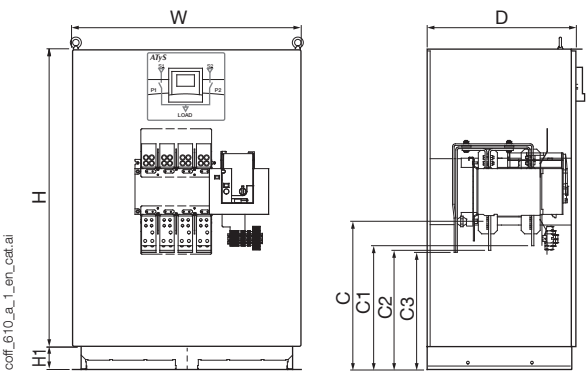
Dimensions

Enclosure, wall-mounted



Rating (A)	Recommended copper cable cross-section (mm ²)	H (mm)	W (mm)	D (mm)	M (mm)	N (mm)	C1 (mm)	C2 (mm)	C3 (mm)	Weight (kg)
200	95	500	600	300	648	458	342	227	-	27
250	120	500	600	300	648	458	352	222	-	28
400	240	600	600	375	648	548	-	320	250	38

Enclosure, floor-mounted



Rating (A)	Recommended copper cable cross-section (mm ²)	H (mm)	W (mm)	D (mm)	H1 (mm)	C (mm)	C1 (mm)	C2 (mm)	C3 (mm)	Weight (kg)
630	2 x 185	800	600	475	100	419	-	-	339	91
800	2 x 240	1000	775	650	100	-	402	353	314	120
1000	4 x 150	1000	775	650	100	455	-	-	374	120
1250	4 x 185	1300	1000	650	100	-	660	-	650	265
1600	4 x 240	1500	1000	800	100	-	393	358	307	374
2000	8 x 150	1800	1000	1000	100	-	577-616	517-476	397-436	500
2500	8 x 185	1800	1000	1000	100	-	577-616	517-476	397-436	600
3200	8 x 240	1800	1000	1000	100	-	577-616	517-476	397-436	600

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Characteristics

Characteristics according to IEC 60947-3, IEC 60947-6-1 and IEC 61439-1

Thermal current I_{th} at 40 °C	200 A	250 A	400 A	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Rated insulation voltage U_i (V) (power circuit)	800	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp} (kV) (power circuit)	8	12	12	12	12	12	12	12	12	12	12
Rated insulation voltage U_i (V) (control circuit)	300	300	300	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	4	4	4

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

Rated voltage	Utilisation category	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B
415 VAC	AC-21 A / AC-21 B	200/200	250/250	400/400	630/630	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-22 A / AC-22 B	200/200	250/250	400/400	630/630	800/800	1000/1000	1250/1250	1600/1600	-/2000	-/2500	-/3200
415 VAC	AC-23 A / AC-23 B	200/200	200/200	400/400	500/630	800/800	1000/1000	1250/1250	1250/1250	-/1600	-/1600	-/1600

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

Rated voltage	Utilisation category											
415 VAC	AC-31 B	200	250	400	630	800	1000	1250	1600	2000	2500	3200
415 VAC	AC-32 B		200	400	500	800	1000	1250	1250	2000	2000	2000
415 VAC	AC-33 B		200	200	400	800	1000	800	1000	1250	1250	1250

Rated operational current I_e (A) according to IEC 61439-1

Rated voltage	Ambient temperature											
415 VAC	20°C	200	250	400	630	800	1000	1250	1600	2000	2500	3200
415 VAC	35°C	200	250	400	630	770	1000	1130	1450	2000	2500	2960
415 VAC	50°C	200	250	360	570	695	900	1030	1200	1801	2500	2660

Conditional short-circuit current with gG DIN fuse, according to IEC 60947-3

Prospective fuse protected short-circuit withstand at 415 VAC (kA rms)	50	50	50	50	50	50	50	100	100	/	/	/
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Connection

Recommended copper cable cross-section (mm ²)	95	120	240	2 x 185	2 x 240	4 x 150	4 x 185	4 x 240	8 x 150	8 x 185	8 x 240
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Power supply

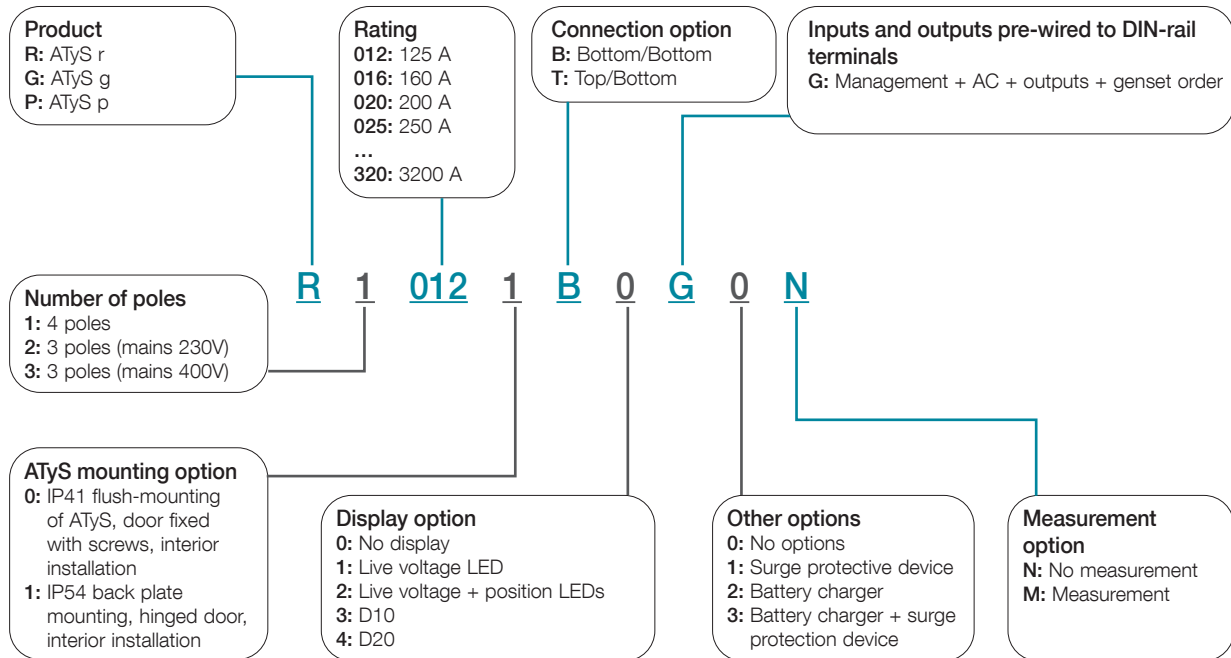
Min./max. power (VAC)	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332	166/332
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Control supply power demand during transfer

Demand/rated power (VA) - ATyS r	184/92	276/115	276/115	276/150	276/150	460/184	460/184	460/230	812/322	812/322	812/322
Demand/rated power (VA) - ATyS g , p	206/114	298/137	298/137	298/172	298/172	482/206	482/206	482/252	834/344	834/344	834/344

Choose your equipment

Order the right References



Mounting option

- As standard the ATyS is back plate mounted and the enclosure has a hinged door (IP54). As an option the ATyS can be flush-mounted with its front face flush with the door (door cut-out); door is fixed with screws (IP41).

Connection option

- Standard: $\leq 250A$ top or bottom, $\geq 400A$ bottom/bottom (outgoing terminals are brought to the bottom of the enclosure through descending copper bars).
- Optional: Top/bottom (incoming cables connect at the top and outgoing exit at the bottom).

Display option

- This option determines the type of display available at the front of the enclosure. Option compatible only when ATyS is back-plate mounted.

Other options

- With this option you can add extra features such as surge protection and/or a genset battery charger.

Measurement option

- ATyS p option for the installation of current transformers on the outgoing side for current, power and energy load measurements.

Delivered equipped and adapted to your needs

- Socomec can help you decide on the best configuration for your needs.