

ATyS d M

Remotely operated Transfer Switching Equipment from 40 to 160 A

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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



Advantages

Secure operation

Fast transfer

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.

ATyS d M are based on coil and technology with rotative contacts, therefore ensuring an

extremely short black-out duration (< 90ms).

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.

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.

Approvals and certifications





Modes of operation



Easy selection of AUTO/ MANUAL mode



Back-up manual operation



Padlocking facility

ATySm_016_c_1_cat

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

order I order O order II

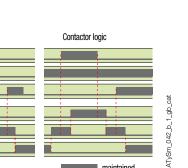
position I position II

- 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.

Impulse logic

Imp. ≥60ms

- 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





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				
40	4 P	9323 4004				
00	2 P	9323 2006		2 pieces 1399 4006	2 pieces 2294 4016 ⁽¹⁾	
63	4 P	9323 4006	2 P 1309 2006 4 P 1309 4006			1 st A/C block included
00	2 P	9323 2008				ii loidaca
80	4 P	9323 4008				2 nd A/C block
100	2 P	9323 2010				Separate common points 1309 0001 (2)
100	4 P	9323 4010				
105	2 P	9323 2012				Linked common points 1309 0011 ⁽²⁾
125	4 P	9323 4012				1309 0011
100	2 P	9323 2016	1309 2016			
160	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 t M - ATyS g M

Automatic Transfer Switching Equipment

from 40 to 160 A







The solution for

- > High Rise Buildings
- > Data centre
- > Healthcare buildings



Strong points

- > Fast commissioning
- ATyS d M functions plus an integrated ATS controller dedicated to mains/mains or mains/genset applications
- Secured configuration settings

Conformity to standards

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



Approvals and certifications(1)





(1) Product reference on request

Function

ATyStM and ATySgM are three-phase (4P) automatic transfer switches with positive break indication. The ATyS gM is also available in 2P for single phase applications.

The ATyS t M and ATyS g M both include ATyS d M functionality together, with an integrated controller for automatic transfer dedicated to mains/mains applications (ATyS t M) and mains/genset applications (ATyS g M). They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Advantages

Fast commissioning

ATyS t M and g M transfer switches offer significant time saving during commissioning (the process takes 2 to 3 minutes). Thanks to the design that allows commissioning through just one potentiometer (4 on the ATyS g M) and four DIP switches, a screwdriver is all that is required to configure the parameters.

ATyS g M: specifically designed for mains/ genset applications

The ATyS g M integrated controller has been designed to provide specific functions for these applications (genset startup, tests on load...) together with the monitoring of the voltage and frequency of both sources for three-phase and single-phase networks.

ATyS t M: specifically designed for mains/ mains applications

The ATyS t M integrated controller has been designed to provide all the functions necessary for these applications (operation with or without priority, preferred source selection) together with the monitoring of the voltage and frequency of both sources for three-phase networks.

Secured configuration settings

In order to prevent any risk of unintended change to the configured settings, a sealable cover is available as an accessory.

What you need to know

The ATyS t M and ATyS g M are automatic transfer switching equipment that include a fully integrated ATS controller. These products are self powered from incoming supplies: 230 VAC (176-288 VAC), 50/60 Hz (45/65Hz).

References

ATyS t M

Rating (A)	No. of poles	Network (VAC)	ATyS t M	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block	Sealable cover
40 A	4P	230/400	9344 4004				1 piece	
63 A	4P	230/400	9344 4006				Separate common	
80 A	4P	230/400	9344 4008	4 P 1309 4006	2 pieces	2 pieces	points	
100 A	4P	230/400	9344 4010	1303 4000	1399 4006	2294 4016 ⁽¹⁾	1309 0001 ⁽²⁾	1359 0000
125 A	4P	230/400	9344 4012				Linked common points	
160 A	4P	230/400	9344 4016	1309 4016			1309 0011 ⁽²⁾	

⁽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.

ATyS g M

Rating (A)	No. of poles	Network (VAC) ⁽³⁾	ATyS g M	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block	Sealable cover
40 A	2P	230	9353 2004					
40 A	4P	230/400	9354 4004					2 P 1359 2000 4 P 1359 0000
60.4	2P	230	9353 2006	2 P 1309 2006 4 P 1309 4006	2 pieces 1399 4006	2 pieces 2294 4016 ⁽¹⁾	1 piece Separate common points 1309 0001 ⁽²⁾ Linked common points 1309 0011 ⁽²⁾	
63 A	4P	230/400	9354 4006					
00.4	2P	230	9353 2008					
80 A	4P	230/400	9354 4008					
100 A	2P	230	9353 2010					
100 A	4P	230/400	9354 4010					
105 4	2P	230	9353 2012					
125 A	4P	230/400	9354 4012					
100 A	2P	230	9353 2016	1309 2016				
160 A	4P	230/400	9354 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. (3) For 127/230 VAC networks, please contact your SOCOMEC office.

^{(2) 1} NO/NC contact block for positions I, 0 and II.



ATyS p M

Automatic Transfer Switching Equipment

from 40 to 160 A



Function

 $\mbox{ATyS}\mbox{ p}\mbox{ M}$ are single-phase or three-phase automatic transfer switches with positive break indication.

Functions include ATyS t M and ATyS g M capability, with additional programmable parameters and a triggering function. A product model with communication is available. They are intended for use in low voltage power supply systems where a brief interruption of the load supply is acceptable during transfer.

Advantages

Flexible programming

ATyS p M time delays and inputs/outputs are completely configurable, hence enabling the easy monitoring of specific applications (load shedding, test...) and the definition of an operating cycle specifically adapted to your application.

Trip function

ATyS p M provides a function for transferring the load to the 0 position in case of loss of both power supply sources (tripping). In this way the load is protected from issues due to source instability.

Communication and configuration

A specific version of ATyS p M is available with integrated Modbus communication. This gives acces to most product data (status, voltages, frequencies...).

A user friendly configuration software is also available free (Easyconfig) to configure, view and save all the parameters in the ATyS p M.

Remote control interface

Specifically designed for installations where the product is enclosed, the remote interface displays product status on the front panel (D10) or displays and controls with access to programming (D20).

The solution for

- > High Rise Buildings
- > Data centre
- > Healthcare buildings
- > Banking and Insurance
- > Transportation (Airports, tunnels...)



Strong points

- > Flexible programming
- > Trip function
- Modbus communication and configuration software
- > Remote control interface

Conformity to standards

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



Approvals and certifications

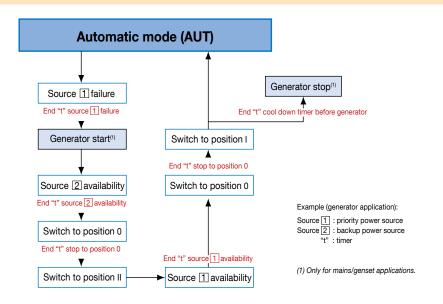




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What you need to know

The ATyS p M are automatic transfer switching equipment that include a fully integrated ATS controller. These products are self powered from incoming supplies: 230 VAC (160-305 VAC), 50/60 Hz (45/65Hz). Automatic products are all equipped with a sequence logic. Here is an example of the sequence logic in case of loss and return of



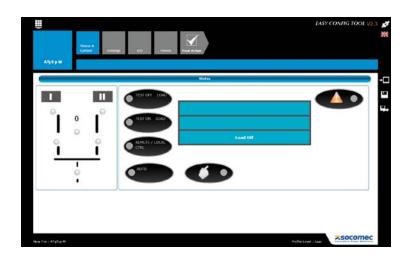
Easyconfig

the preferred source.

The **Easyconfig software** is the ideal solution to save time and simplify complex configuration.

Typical parameters that can be set:

- the application type,
- voltage/frequency thresholds,
- timers,
- inputs/outputs...



ATyS p M

Rating (A)	No. of poles	Network (VAC) ⁽³⁾	ATyS p M	ATyS p M + com	Bridging bars	Voltage sensing and power supply tap	Terminal shrouds	Auxiliary contact block	Remote interface
40 A	4P	230/400	9364 4004	9384 4004				1 piece	
63 A	4P	230/400	9364 4006	9384 4006				Separate common	D10
80 A	4P	230/400	9364 4008	9384 4008	4 P 1309 4006	2 pieces	2 pieces	points	9599 2010
100 A	4P	230/400	9364 4010	9384 4010	1000 1000	1399 4006	2294 4016 ⁽¹⁾	1309 0001 ⁽²⁾	D20
125 A	4P	230/400	9364 4012	9384 4012				Linked common	9599 2020
160 A	4P	230/400	9364 4016	9384 4016	1309 4016			points 1309 0011 ⁽²⁾	

⁽¹⁾ The three-phase version (4 P), for upstream and downstream protection, please order the reference twice.

^{(2) 1} NO/NC contact block for positions I, 0 and II.

⁽³⁾ For 127/230VAC networks, please contact your SOCOMEC office.

ATyS M range

ATyS d M, ATyS t M, ATyS g M, ATyS p M

from 40 to 160 A

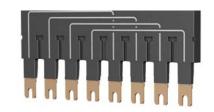
Accessories

Bridging bars

Use

Used to bridge the outgoing common connection between switch I and switch II. The bridging bar does not reduce the connection capacity of the cage terminals.

Rating (A)	No. of poles	Reference
40 125	2 P	1309 2006
160	2 P	1309 2016
40 125	4 P	1309 4006
160	4 P	1309 4016



atysm_025_a

Voltage sensing and power supply tap

Use

It allows connection of $2x \le 1.5 \text{ mm}^2 \text{ voltage}$ sensing or power cables.

The single-pole voltage sensing tap can be mounted in any of the terminals (incoming) without reducing their connecting capacity.

Rating (A)	Pack	Reference
40 160	2 pieces	1399 4006



atysm_026_a

Terminal shrouds

Hse

Protection against direct contact with terminals or connecting parts.

Advantages of the terminal shrouds

Perforations built in to the terminal shrouds allow remote thermographic inspection without the need to remove the shrouds. Tamper-proof seals can be fitted for increased security.

Mounting

For upstream and downstream protection of three-phase products (4 P), please order the reference twice. For the single-phase products (2 P) please order the reference once.



atysm_027_a

Rating (A)	Position	Reference
40 160	top and bottom	2294 4016 ⁽¹⁾

⁽¹⁾ Reference composed of 2 pieces (4P).

Auxiliary contact

Use

Auxiliary contacts for position indication. A maximum of two auxiliary contact blocks can be fitted to each product.

Each auxiliary contact block integrates 3 NO/NC auxiliary contacts, one per position (I, 0, II).

The ATyS d M s is supplied with one auxiliary contact block fitted as standard; This A/C block has separate common points.

Characteristics:

250 VAC / 5 A maximum. 24 VDC / 2 A maximum.

Rating (A)	Туре	Reference
40 160	Separate common connection	1309 0001
40 160	Linked common connection	1309 0011



sess_353_a

Sealable cover

Prevents access to the ATyS t M and g M configuration panel (seals and screws are included).

Rating (A)	No. of poles	Reference
40160	2 P	1359 2000
40160	4 P	1359 0000



Polycarbonate enclosure

Use

Dedicated to the installation of a three-phase ATyS M, it enables easy integration of a compact transfer switch solution.

Rating (A)	H x W x D (mm)	Reference
40 160	385 x 385 x 193	1309 9006



Extension box for polycarbonate enclosure

Combined with the polycarbonate enclosure, the extension unit provides additional space in order to connect 70 mm² cables to the ATyS M with ease.

Rating (A)	Reference
40 160	1309 9007



ATyS M range ATyS d M, ATyS t M, ATyS g M, ATyS p M

from 40 to 160 A

Accessories (continued)

Residential enclosure

Use

Dedicated to the implementation of a single-phase ATyS M, this plastic enclosure provides a compact IP41 transfer switch solution with easy integration.

Rating (A)	H x W x D (mm)	Reference
40 160	410 x 305 x 150	1309 9056



Auto-transformer

Use

For use with ATyS p M in 400 VAC three-phase applications that does not have a distributed neutral. The ATyS p M includes integrated sensing and power supply circuits, therefore a neutral connection is required for 400 VAC three-phase applications. When no neutral connection is available this autotransformer (400/230 VAC, 400 VA) provides the 230 VAC required for the ATyS to function.

Rating (A)	Reference
40 160	1599 4121



Double power supply - DPS

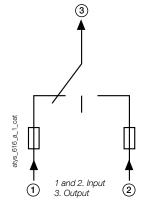
Use

Allows an ATyS d M to be supplied by two 230 VAC, 50/60 Hz networks to have full control in terms of transfer to and from any position with any one of the power supplies available.

- 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.

Input 1	Input 2	Output
230 VAC	0 VAC	230 VAC (Input 1)
0 VAC	230 VAC	230 VAC (Input 2)
230 VAC	230 VAC	230 VAC (Input 1)
0 VAC	0 VAC	0 VAC

Description of accessories	Reference
DPS	1599 4001





Remote interfaces for ATyS p M

Use

To remotely display source availability and position indication typically used on the front of a panel when the ATyS M is enclosed.

The remote interface is powered directly from the ATyS M via the RJ45 connection cable.

Maximum cable length: 3 m.

Description of accessories

D10

D10

D20

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

Protection degree: IP21

D20

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

Protection degree: IP21

Door mounting

2 holes Ø 22.5.

ATyS M connection via RJ45 cable, not isolated. Cable not provided

Reference

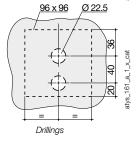
9599 2010 9599 **2020**

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4_c_1_(© ALT	
atys_564_c_1_cat		









Interfaces are self powered from the ATyS M

Connection cable for remote interfaces

Use

To connect between a remote interface (type D10 or D20) and an ATyS p M.

Characteristics:

RJ45 8 wire straight-through, non isolated cable. Length 3m.

Туре	Length	Reference
RJ45 cable	3 m	1599 2009



Power connection terminals

Use

The power connection terminals allow conversion of the cage terminals into bolt-on type connection terminals, enabling connection of up to two 35mm² cables or one 70mm² cable. Each power connection terminal is provided with separation screens.

Rating (A)	Reference
40 160	1399 4017 ⁽¹⁾

For complete conversion, order 3 times the reference.



ATyS M range ATyS d M, ATyS t M, ATyS g M, ATyS p M

from 40 to 160 A

Enclosed transfer switch solutions

General characteristics

- Adapted to mechanical risk and dust hazard.
- Integrated bridging bar
- Protection degree: IP3x or IP54.
- Colour: RAL 7035.

- Cable gland plates: top and bottom.
- Material: steel, thickness 1.2 mm.
- Coating: epoxy polyester powder.
- Wall mounting: 4 fixing lugs supplied loose.
- Door: hinged metal door, front door cut out 327.4x47.6 mm.
- Door lock: 3 mm double bar key (included).

References

ATyS d M

Rating (A)	No. of poles	IP 3X Reference	IP 54 Reference
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

Rating (A)	No. of poles	IP 3X Reference	IP 54 Reference
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 + COM RS485

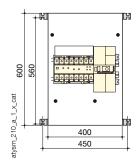
Rating (A)	No. of poles	IP 3X Reference	IP 54 Reference
40	4 P	1884 4004	1884 4005
63	4 P	1884 4006	1884 4007
80	4 P	1884 4008	1884 4009
100	4 P	1884 4010	1884 4011
125	4 P	1884 4012	1884 4013
160	4 P	1884 4016	1884 4017

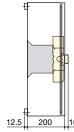
Accessories

Customer fit

Description	Reference
Solid neutral	1309 9008
Kit IP54	1399 4016

Dimensions

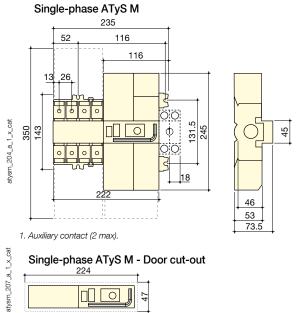


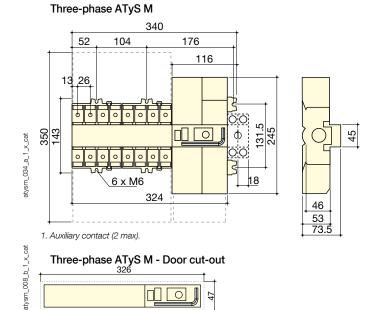


- Weight (excluding accessories): 15 kg.
- Connection (without power connection terminals): min. Cu 10 mm², max. 70 mm².

Dimensions

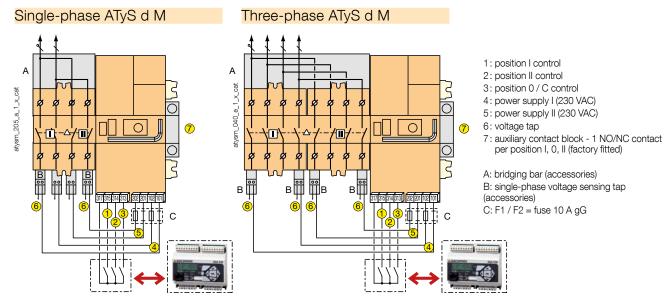
ATyS M 40 to 160 A







Terminals and connections

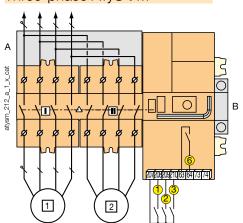


ATyS M range ATyS d M, ATyS t M, ATyS g M, ATyS p M

from 40 to 160 A

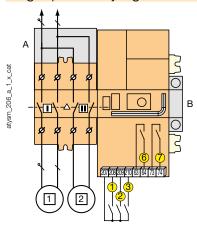
Terminals and connections

Three-phase ATyS t M

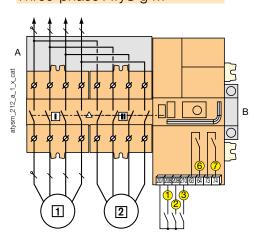


- 1 preferred source (network)
 2 alternate source (network)
- 1: position 0 control
- 2: preferred source selection
- 3: automatic mode inhibition
- 6: availability S1 or S2
- A: bridging bar (accessories)
- B: auxiliary contact block 1 NO/NC contact per position I, 0, II (accessories)

Single-phase ATyS g M

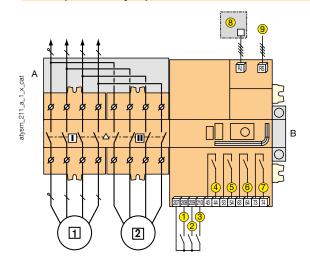


Three-phase ATyS g M



- 1 preferred source 2 alternate source
- 1: manual retransfer / priority change
- 2: test on load
- 3: automatic mode inhibition
- 6: product availability relay
- 7: genset start / stop control
- A: bridging bar (accessories)
- B: auxiliary contact block 1 NO/NC contact per position I, 0, II (accessories)

Three-phase ATyS p M



- 1 preferred source
- 2 alternate source
- 1 2 3: programmable inputs
- 4 5 6: programmable outputs
- 7: genset start / stop control
- 8: RJ 45 for connecting a D10/D20 remote interface
- 9: RS485 for communication on versions with COM.
- A: bridging bar (accessories)
- B: auxiliary contact block 1 NO/NC contact per position I, 0, II (accessories)

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

Thermal current Ith at 40°C		40 A	63 A	80 A	100 A	125 A	160 A
Rated insulation voltage U _i (V) (power c	ircuit)	800	800	800	800	800	800
Rated impulse withstand voltage U _{imp} (k		6	6	6	6	6	6
Rated insulation voltage U _i (V) (operatio	n circuit)	300	300	300	300	300	300
Rated impulse withstand voltage U _{imp} (kV) (operation circuit) - ATyS d M	4	4	4	4	4	4
Rated impulse withstand voltage U_{imp} (kV) p M	(operation circuit) - ATyS t M, g M and	2.5	2.5	2.5	2.5	2.5	2.5
Rated operational currents I _e (A)	according to IEC 60947-6-1						
Rated voltage	Utilisation category	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
415 VAC	AC-31 A / AC-31 B	40/40	63/63	80/80	100/100	100/125	100/160
415 VAC	AC-32 A / AC-32 B	40/40	63/63	80/80	100/100	100/125	100/160
415 VAC	AC-33 A / AC-33 B	-/40	-/63	-/80	-/100	-/125	-/125
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⁾
415 VAC	AC-20 A / AC-20 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-21 A / AC-21 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-22 A / AC-22 B	40/40	63/63	80/80	100/100	125/125	160/160
415 VAC	AC-23 A / AC-23 B	40/40	63/63	80/80	100/100	125/125	125/160
690 VAC ⁽⁵⁾	AC-21 A / AC-21 B	40/40	63/63	80/80	100/100	125/125	160/160
690 VAC ⁽⁵⁾	AC-22 A / AC-22 B	40/40	63/63	80/80	80/80	100/125	100/100
690 VAC ⁽⁵⁾	AC-23 A / AC-23 B	40/40	63/63	63/63	80/80	80/80	80/80
Fuse protected short-circuit with		10/10	00/00	00/00	00/00	00/00	00/00
'	·	50	50	50	50	50	40
Prospective short-circuit current (kA rm	ns)	50	50	50	50	50	40
Associated fuse rating (A)		40	63	80	100	125	160
Circuit breaker protected short-c	circuit withstand with any circuit	it breaker tha	t ensures trip	ping in less t	han 0.3s ⁽⁴⁾		
Rated short-time withstand current 0.3	s I _{CW} (kA rms)	7	7	7	7	7	7
						1	
Short-circuit capacity (without pr	,			1			
Rated short-time withstand current 1 s.		4	4	4	4	4	4
Rated peak withstand current (kA peak	() ⁽²⁾	17	17	17	17	17	17
Connection							
Minimum Cu cable cross-section (mm²)		10	10	10	10	10	10
Maximum Cu cable cross-section (mm²		70	70	70	70	70	70
Tightening torque (Nm)	,	5	5	5	5	5	5
Switching time ⁽⁵⁾		,	, v		Ü		J
I - 0 or II - 0 (ms) ⁽³⁾		45	15	45	45	45	45
I - II or II - I (ms) (3)		180	45 180	180	180	180	180
Duration of "electrical blackout" I - II (ms	a) minimum	90	90	90	90	90	90
,	S) ITIII III TIUTT	90	90	90	90	90	90
Power supply							
Power supply 230 VAC mini / maxi (VA	, , , , , , , , , , , , , , , , , , , ,	176/288	176/288	176/288	176/288	176/288	176/288
Power supply voltage 230 VAC min / m	nax (VAC) (ATyS p M)	160/305	160/305	160/305	160/305	160/305	160/305
Control supply power demand							
1171		6	6	6	6	6	6
Nominal power (VA)							30
Nominal power (VA) Max current under 230 VAC (A) - ATVS	d M t M and g M	30	30	(50)	(30)	(30)	
Nominal power (VA) Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS		30 20	30 20	30 20	30 20	30 20	20
Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS							
Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS Mechanical characteristics		20	20	20	20	20	20
Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS Mechanical characteristics Durability (number of operating cycles)	рМ	20	20	20	20	20	20
Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS Mechanical characteristics Durability (number of operating cycles) Weight of single-phase versions - withc	p M but packaging (kg)	20 10 000 2.8	20 10 000 2.8	20 10 000 2.8	20 10 000 2.8	20 10 000 2.8	20 10 000 2.8
Max current under 230 VAC (A) - ATyS Max current under 230 VAC (A) - ATyS Mechanical characteristics Durability (number of operating cycles)	p M out packaging (kg) packaging (kg)	20	20	20	20	20	20

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

 ⁽²⁾ For a rated operational voltage U_a = 400 VAC.
 (3) Between the command given and reaching of position at U_n (under nominal conditions).

⁽⁴⁾ 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.

⁽⁵⁾ At rated voltage - excluding time delays and loss of source detection time when applicable.