

# ATyS d H

## Remotely operated Transfer Switching Equipment

from 4000 to 6300 A



#### **Function**

The **ATyS d H** is a three-phase transfer switch, 3 and 4 poles, designed for low voltage high power applications that require high-performance and fast reliable switching. The open transition transfer is performed on-load in line with IEC 60947-6-1 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. 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

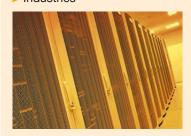
The ATyS d H offers high withstand short circuit current ratings of 143 kA  $I_{\rm cm}$  (making) and 65 kA for 0.1sec  $I_{\rm cw}$  (withstand). Further to its high short circuit withstand, the ATyS d H performance in terms of load switching capacity is AC-33iB (6 x  $I_{\rm n}$  cos Ø 0.5) without 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 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



#### **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 by including an ATyS C55 / C65 controller with a door mounted external display.

#### References

| Rating (A) | Number of poles | ATyS d H<br>Reference | Control relay<br>Reference |  |
|------------|-----------------|-----------------------|----------------------------|--|
| 4000 A     | 3P              | 9533 <b>3400</b>      |                            |  |
|            | 4P              | 9533 <b>4400</b>      | ATyS C55                   |  |
| 5000 A     | 3P              | 9533 <b>3500</b>      | 1600 <b>0055</b>           |  |
|            | 4P              | 9533 <b>4500</b>      | ATYS C65                   |  |
| 6300 A     | 3P              | 9533 <b>3630</b>      | 1600 <b>0065</b>           |  |
|            | 4P              | 9533 <b>4630</b>      |                            |  |



### Characteristics according to IEC 60947-6-1

| Thermal current I <sub>th</sub> at 40°C  | 4000 A    | 5000 A                 | 6300 A    |  |
|--|-----------|------------------------|-----------|--|
| Rated operating voltage U <sub>e</sub> (V)   |           | 660                    |           |  |
| Rated insulation voltage U <sub>i</sub> (V)  |           | 660                    |           |  |
| Rated impulse withstand voltage U <sub>imp</sub> (kV)                              |           | 12                     |           |  |
| Rated short-circuit withstand at 660 VAC   |           |                        |           |  |
| Rated short-time withstand current 0.1s I <sub>cw</sub> (kA rms)                   |           | 65                     |           |  |
| Rated peak withstand current (kA peak)   |           | 143                    |           |  |
| Rated operational current I <sub>e</sub> (A), at 660 VAC - AC32B                   | 4000      | 5000                   | 6300      |  |
| Rated operational current I <sub>e</sub> (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 <sup>(1)</sup>    |           |  |
| Mechanical characteristics   |           |                        |           |  |
| Durability (number of operating cycles)  |           | 3000                   |           |  |
| Weight (kg) - Fixed 3/4P model   | 200 / 250 | 200 / 250              | 200 / 250 |  |

<sup>(1)</sup> Instantaneous value. For a complete operation, power should be available during 0.5 s.

#### **Dimensions**

