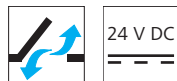


# DDS 54



## Performance features

- » For opening single-leaf doors up to 90°
- » With motor electronics controlled via microprocessor
- » High force of pressure due to special chain stabilisation
- » Control output for on-site electronic door release
- » Guarantees the necessary supply air and open escape routes
- » The door remains operable by hand
- » Automatic motor lock, Ikon or Ehem, can be combined
- » Programmable drive functions and different drive parameters
- » Additional passive and active anti-trap protection system for the main closing edges
- » Bracket set included

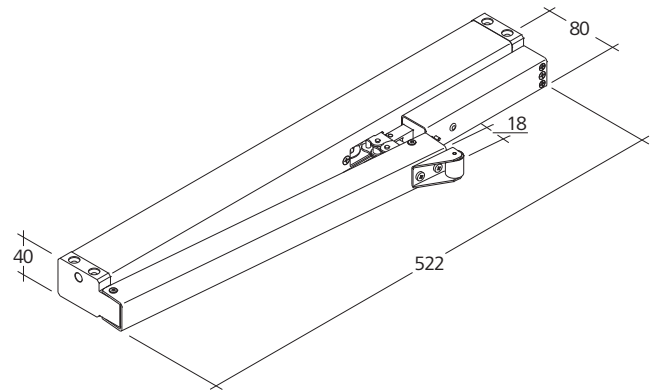
## Potential drive options



You can find the explanations for the icons on the last page

## Dimensions

All specifications in mm



## Technical data

|                               |                              |
|-------------------------------|------------------------------|
| Supply                        | 24 V DC / $\pm 15\%$ / 1 A   |
| Duty cycle                    | 30 %                         |
| Force of pressure             | 500 N                        |
| Tensile force                 | 500 N                        |
| Service life                  | 20000 double strokes         |
| OPEN running speed            | 11.8 mm/s                    |
| CLOSED running speed          | 11.8 mm/s                    |
| Type of protection            | IP 32                        |
| Emission sound pressure level | $L_{pA} \leq 70$ dB(A)       |
| Temperature range             | -5 °C ... +75 °C             |
| Fire resistance               | B300 (30 min / 300 °C)       |
| Housing                       | Aluminium                    |
| Surface                       | Powder-coated                |
| Colour                        | White aluminium (~ RAL 9006) |
| Connection                    | 2.5 m silicone cable         |
| W x H x D                     | 522 x 40 x 80 mm             |
| Weight                        | 2.00 kg                      |

## Approvals / Certificates

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## Design

| Type       | Art. No.  | Stroke | Remark                      |
|------------|-----------|--------|-----------------------------|
| DDS 54/500 | 23.002.40 | 500 mm |                             |
| DDS-PLP    | 26.500.00 | 500 mm | Variable equipment possible |



#### HS "High-Speed"

In the case of SHEV, the high-speed function is used for reliably reaching the defined end position in 60 s. In daily ventilation mode, the drive runs quietly and quickly, as usual.



#### Function programming

Option for customised configuring of drive parameters (e.g. stroke) via software and associated service tools for drives equipped with PLP, BSY or BSY+ electronics.



#### BRV signal

Acknowledgement from the drive, via a control cable, to confirm that it has been completely extended or retracted. When used with the AT 41 and ERM 44 modules, this signal is sent to the central building control system, the modules themselves, or to the lock drive. The BRV signal is not isolated.



#### ACB (Advanced Communication Bus)

Enables direct bus communication between the controller and the drive for, for example, control with perfect positioning or drive feedback. Communication is via the open source Modbus protocol, and it enables the drive to be combined with an ACB-capable control panel or enables it to be directly connected to higher-level controllers such as a building management system.



#### BSY+ (synchronisation of drives)

In addition to providing the same synchronisation function as BSY, BSY+ enables different components in the window to communicate with each other. For example, the chain drives, during synchronous operation, or the window and lock drives (e.g. FRA 11 BSY+ or VLD-BSY+).



#### SGI signal (position reporting)

In combination with the D+H servo plug-in unit SE 622, the drives can be controlled with perfect positioning.



#### SKS (closing edge protection)

Drive option, which enables an anti-trap strip or presence detector to be connected directly to the drive (terminal resistor 5.6 kΩ).



#### Audible signal (corresponding to protection class)

AS2 corresponding to "Protection class 2" in accordance with ZVEI risk assessment through an audible warning signal in the "CLOSED" running direction. AS3 corresponding to "Protection class 3" in accordance with ZVEI risk assessment, in addition to AS2, stops the drive for 11 s with a remaining stroke of 28 mm.



#### End position message (OPEN / CLOSED)

Drive feedback via an integrated isolated switching contact. This happens if the chain / rack and pinion has moved completely out or in.



#### Mechanical adjustment

Drive option for adjusting the overall length or design (e.g.: centred chain outlet).



#### TM tandem connecting shaft

Available as an option for rack and pinion drives. The drives are mechanically coupled with the rack and pinion slave units (ZM) with connecting shafts (VW).



#### SBD side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).



#### SBU side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).



#### WS (use in swimming pool)

Available as an option for rack and pinion drives to make them suitable for use in swimming pools. The drive is equipped with an A4 rack and pinion, A4 eyebolt and a gearbox with hardened stainless steel pinion.



#### W (use outdoors)

Available as an option for rack and pinion drives to make them suitable for outdoor use. The drive is equipped with a pressure release vent (depending on installation), condensation protective coating on the electronics and a gearbox with hardened stainless steel pinion.