ZA-K-BSY+



Performance features

- Can be used for openings for smoke exhaust; D+H Euro SHEV in accordance with EN 12101-2; and for daily ventilation
- With BSY+ motor and synchronised electronics controlled via microprocessor
- High-speed function (HS) for especially fast opening windows in case of fire (SHEV) (optionally available)
- Direct control via 230 V AC
- Option of up to 4 drives in one synchronous group
- Low current consumption thanks to high efficiency
- Option of cable infeed above and below
- Drive unit can be changed from left to right
- Running speed in CLOSED direction decreases to 5 mm/s (passive closing edge protection)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)

Approvals / Certificates

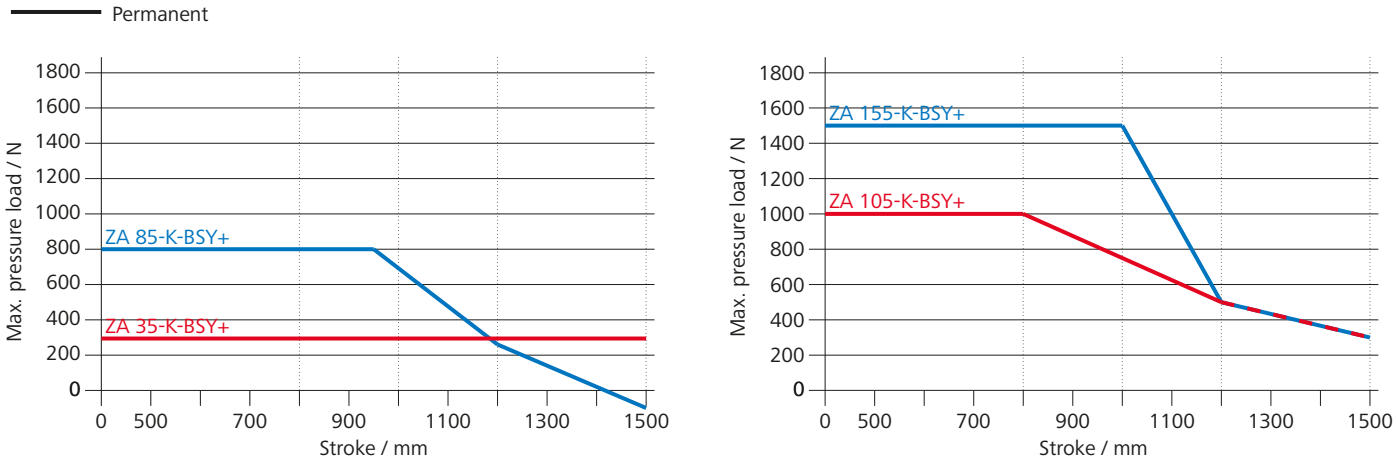
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Pressure load diagram



Technical data

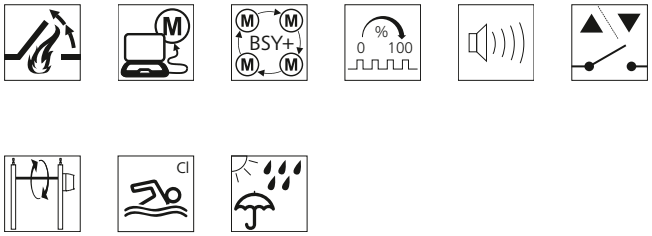
	ZA 35-K-BSY+	ZA 85-K-BSY+	ZA 105-K-BSY+	ZA 155-K-BSY+
Supply	230 V AC / +10 % ... -15 %			
Input frequency	50 Hz			
Performance	20 W / 30 VA	30 W / 45 VA	35 W / 55 VA	45 W / 70 VA
Duty cycle	30 % (ON: 3 min. / OFF: 7 min.)			
Force of pressure	300 N	800 N	1000 N	1500 N
Tensile force	300 N	800 N	1000 N	1000 N
Nominal locking force	1100 N			
Service life	20000 double strokes *			
Stroke	100 - 1500 mm			
OPEN running speed	7.1 mm/s			
OPEN running speed - SHEV	8 mm/s			
CLOSED running speed	7.1 mm/s			
Type of protection	IP 65			
Emission sound pressure level	LpA ≤ 51 dB(A)			
Temperature range	-5 °C ... +75 °C			
Fire resistance	B300 (30 min / 300 °C)			
Housing	Aluminium / Polycarbonate			
Surface	Powder-coated			
Colour	White aluminium (~ RAL 9006)			
Connection	2.5 m silicone cable			
Dimension A	225 - 1662 mm			

For an illustration of the dimensions, see the next page.
* For vertical use, please consult with D+H Sales!

ZA-K-BSY+

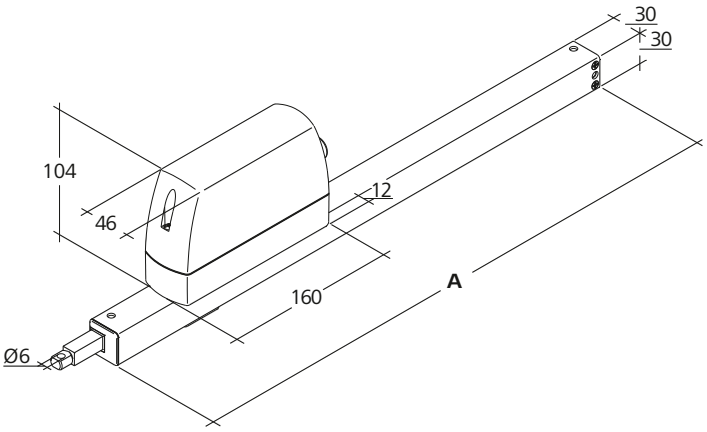
Potential drive options

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



Dimensions

All specifications in mm



Design

Type	Art. No.	Dimension A	Remark
ZA-K-BSY+	27.007.01	225 - 1662 mm	Variable equipment possible

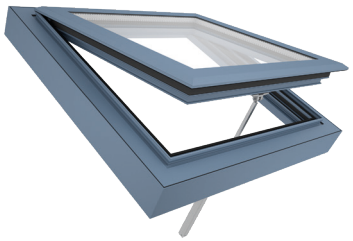
Brackets are not included and have to be ordered separately.

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Possible applications

Illustration provided as an example





- Mounted installation
- Sash mounting
- Frame mounting
- Side installation
- Installation opposite the hinge
- Application force
- Application tension



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 locking 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 locking 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 or the BSY-gateway BSY-GW-024-010-U, 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.



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).



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.