

# Linear actuator

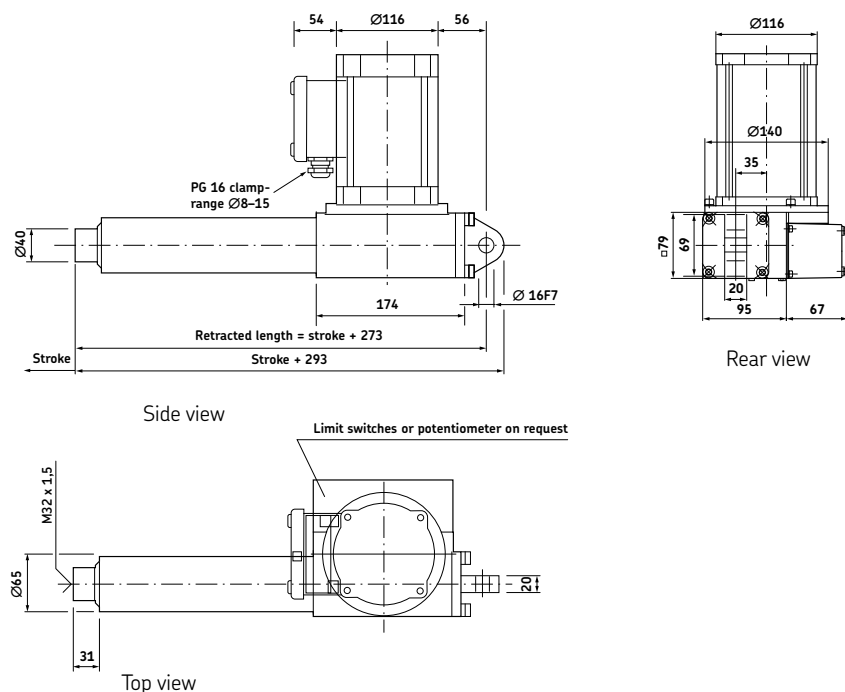
## Magforce STW

### Benefits

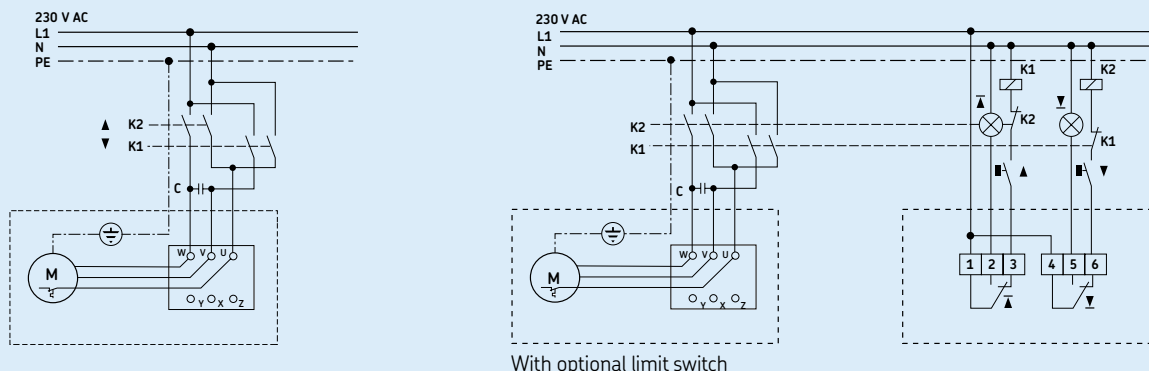
- Modular
- Robust
- Reliable
- High speed and/or high load
- All metal design



# Dimensional drawing



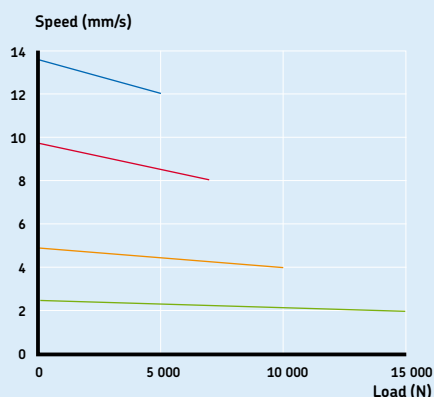
## Connecting diagrams



## Technical data

|                           | Unit | STW 5007     | STW 7010   | STW 10020  | STW 15040  |
|---------------------------|------|--------------|------------|------------|------------|
| Push load                 | N    | 5 000        | 7 000      | 10 000     | 15 000     |
| Pull load                 | N    | 5 000        | 7 000      | 10 000     | 15 000     |
| Speed (at full load)      | mm/s | 12           | 8          | 4          | 2          |
| Stroke                    | mm   | 100 to 700   | 100 to 700 | 100 to 700 | 100 to 700 |
| Retracted length          | mm   | S+273        | S+273      | S+273      | S+273      |
| Voltage                   | V AC | 230          | 230        | 230        | 230        |
| Power consumption         | W    | 700          | 710        | 710        | 750        |
| Current consumption       | A    | 3,3          | 3,5        | 3,5        | 3,5        |
| Duty cycle                | %    | 15 (1,5/8,5) | 10 (1/9)   | 10 (1/9)   | 10 (1/9)   |
| Ambient temperature       | °C   | -10 to +40   | -10 to +40 | -10 to +40 | -10 to +40 |
| Type of protection        | IP   | 54           | 54         | 54         | 54         |
| Weight (at 200 mm stroke) | kg   | 14,6         | 14,6       | 14,6       | 14,6       |
| Color                     | —    | Silver       | Silver     | Silver     | Silver     |

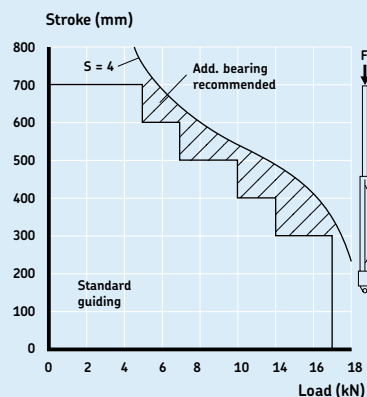
### Performance diagram



Speed-load diagram

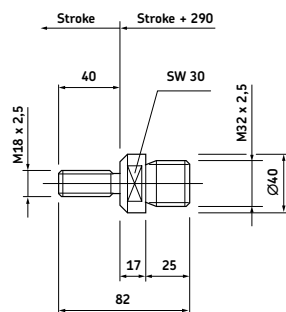
- STW 5007-200
- STW 7010-200
- STW 10020-200
- STW 15040-200

### Safety load factor conditions

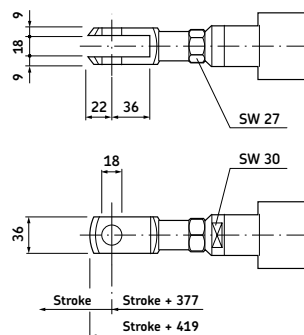


Bending of spindle  
 $S$  = safety factor Euler 3

### Options



Adapter



Front attachment

## Ordering key

STW [ ] [ ] [ ] [ ] - [ ] [ ] - [ ] [ ] - [ ] [ ]

### Type

#### Load:

5 000 N  
7 000 N  
10 000 N  
15 000 N

05007  
07010  
10020  
15040

#### Stroke (S):

100 mm  
200 mm  
300 mm  
400 mm  
500 mm  
600 mm  
700 mm

100  
200  
300  
400  
500  
600  
700

#### Option 1:

No option  
*Others\**

01  
XX

#### Option 2:

No option  
Adapterbolt M18 1031,0106  
Fork head (including adapterbolt) 1051,9038

0  
E  
F

#### Option 3:

No option  
Limit switch  
Potentiometer (1 000 Ω)  
Encoder 1063,0020

0  
1  
2  
3

*Options shown in italics are only available on request.*

Minimum quantities or additional costs apply for option 1 if shown in italics. For option 2 and 3 please contact your SKF representative.

Example for ordering an actuator without any options: STW05007-100-01.

Example for ordering an actuator with option fork head: STW05007-100-01-F0 (F0= with fork head).

\* Example for others XX: Back up nut, extended motor shaft, low temperature grease...

## Spare parts

|              | Designation   | Order N°  |
|--------------|---------------|-----------|
| Adapter bolt | ZBE-1031,0106 | M/0125265 |
| Fork head    | ZBE-1051,9038 | M/0124705 |

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